# PLASKOLITE

## PRODUCT LINE GUIDE

# CORE BRANDS

**TUFFAK**®
POLYCARBONATE SHEET

**OPTIX**®
ACRYLIC SHEET

**VIVAK**®
PETG SHEET

**POLYGAL**®
MULTIWALL

**Lucite**®**.SPA**

**FABBACK**®
MIRRORED SHEET

# PLASKOLITE

## QUALITY COMMITMENT

PLASKOLITE is a leading manufacturer of extruded acrylic sheet, continuous cast acrylic sheet, polycarbonate sheet, PETG sheet, multiwall sheet, acrylic resin, and plastic mirror sheet. Since 1950, we have built an excellent reputation for providing high quality products and responsive customer service.

PLASKOLITE'S commitment to quality extends over every aspect of its business. With a manufacturing footprint of over 1 million square feet and growing, PLASKOLITE delivers the highest quality sheet and resin to customers worldwide, under rigorous ISO 9001 quality standards.

To better serve our customers, sheets can be ordered in customized ″Run-to-Size″ dimensions and special patterns and thicknesses. Customer Service Representatives use automated order and shipping tracking systems to provide customers with up-to-the-minute information on their orders.

From manufacturing through customized product offerings, packing, shipping and order tracking, PLASKOLITE is committed to delivering the highest quality products and service to its customers.

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### OPTIX EXTRUDED ACRYLIC SHEET

OPTIX extruded acrylic is a lightweight, crystal clear, weather-resistant sheet ideal for many fabrication or glazing applications. The exceptional clarity and weatherability of OPTIX acrylic sheet makes it the perfect choice for applications with high optical and light transmitting requirements. It is impact resistant, and does not shatter into sharp-edged pieces, which makes it a good alternative to glass. OPTIX is available in a wide range of gauges, textures, colors and sizes.

### APPLICATIONS INCLUDE:

Point-of-purchase displays, lighting, signage, picture framing, glazing, transportation

## Typical Properties

| Property | Test Method | Units | Values |
|---|---|---|---|
| **PHYSICAL** | | | |
| Specific Gravity / Relative Density | ASTM D792 | – | 1.19 |
| Optical Refractive Index | ASTM D542 | – | 1.49 |
| Light Transmission - Total | ASTM D1003 | % | 92 |
| Light Transmission - Haze | ASTM D1003 | % | <2 |
| Sound Transmission | ASTM E90 / E413 | dB | 27 |
| Water Absorption | ASTM D570 | % | 0.4 |
| Mold Shrinkage | ASTM D955 | mils/in | 2-6 |
| **MECHANICAL** | | | |
| Tensile Strength | ASTM D638 | psi | 11,030 |
| Tensile Elongation – Max. | ASTM D638 | psi | 5.8 |
| Tensile Modulus of Elasticity | ASTM D638 | psi | 490,000 |
| Flexural Strength | ASTM D790 | psi | 17,000 |
| Izod Impact Strength - Notched | ASTM D256 | ft-lb./in | 0.4 |
| Tensile Impact Strength | ASTM D1822 | ft-lb./in$^2$ | 20 |
| Abrasive Resistance – Change in Haze | | | |
| 10 cycles | ASTM D1044 | Haze % | 11.2 |
| 50 cycles | ASTM D1044 | Haze % | 24 |
| 200 cycles | ASTM D1044 | Haze % | 24.9 |
| Rockwell Hardness | ASTM D785 | – | M-95 |
| **THERMAL** | | | |
| Maximum Recommended Continuous Service Temperature | – | °F | 170-190 |
| Softening Temperature | ASTM D1525 | °F | 210-220 |
| Deflection Temperature @ 264 psi (1.8 MPa) | ASTM D648 | °F | 203 |
| Deflection Temperature @ 66 psi (0.45 MPa) | ASTM D648 | °F | 207 |
| Coefficient of Linear Thermal Expansion | ASTM D696 | in/in/°F | $3.0 \times 10^{-5}$ |
| Thermal Conductivity | ASTM C177 | Btu-ft/ft$^2$/hr/°F | 0.075 |
| Flammability (Burning Rate) | ASTM D635 | in/min | 1.0 |
| Flammability | UL 94 | – | HB |
| Smoke Density Rating | ASTM D2843 | % | 3.4 |
| Self-Ignition Temperature | ASTM D1929 | °F | 833 |
| Flame Spread Index | ASTM E84 | – | 115 |
| Smoke Developed Index | ASTM E84 | – | 550 |

# OPTIX® General Purpose

## GENERAL-PURPOSE ACRYLIC SHEET

OPTIX general-purpose acrylic sheets have the superior optical properties necessary for applications requiring high clarity, such as high-end lighting systems, and picture framing. They are easy to fabricate and form, with exceptional UV stability, for many interior and exterior applications.

Our OPTIX general-purpose acrylic sheets include transparent, translucent, patterned and frosted appearance, and are available in a broad range of gauges and sheet sizes.

### APPLICATIONS INCLUDE:

Signage, lighting fixtures, retail display

**Please refer to pages 6 and 7 for product stock numbers and packaging information.**

### Sheet Thickness
OPTIX general-purpose acrylic sheet is produced within industry standards of ±10% on thickness. Minimum thicknesses available. Call for quotation and production minimums.

### Sheet Tolerances (on line)
OPTIX general-purpose acrylic sheet is produced to tolerances of ±1/16" length and width on sizes 42" and smaller. Sheet sizes greater than 42" up to 60" are produced to length and width tolerances of ±3/32". All sheet sizes greater than 60" produced to length and width tolerances of ±1/8" (-0, +1/4 on 48" x 96" stock sizes and above).

### Sheet Squareness (on line)
OPTIX general-purpose acrylic sheet is produced to squareness tolerances of ±1/8" on sizes 42" and smaller. Sheet sizes greater than 42" to 60" squareness is ±3/16" and sheet sizes greater than 60" squareness is ±1/4".

### Sheet Edges
Edges are supplied slit, hot sheared and saw cut.

### Sheet Masking
Most general-purpose acrylic is stocked with a 2 mil Co-Ex masking, on two sides. A variety of sheet masking options and configurations are available including papermasking, TG paper replacement film, and 3 mil formable film.

### Run-to-Size Sheet
Run-to-Size Solutions offered by PLASKOLITE delivers ultimate flexibility by allowing the purchase of OPTIX general-purpose and other popular substrates made to individual specifications.

Custom sizes, thicknesses, colors, masking and packaging options available. See page 10 for more details on Run-to-Size from PLASKOLITE.

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**PLASKOLITE'S acrylic sheets are covered under the following:**

» International Code Council Evaluation Service (ICC-ES) listings (incorporates former ICBO, SBCCI, BOCA and NES certifications) as Plastics

» ANSI Z97.1 Safety Glazing Requirements

» ANSI Z26.1 Motor Vehicle Safety Glazing Standard

» Underwriters Laboratories (UL) listings UL 94HB

» Miami-Dade County Product Control Notice of Acceptance – Clear Plastics

» 10-year limited warranty on all clear acrylic sheets

» ASTM D-4802 – B-1 Plastics

## 0.060″ (1.5mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG000QA | 48″ x 96″ Polyfilm | 32.00 | 5 | |
| 1AG000TA | 48″ x 96″ Polyfilm | 32.00 | Bulk | 180 |
| 1AG000UA | 48″ x 96″ Papermask | 32.00 | 5 | |
| 1A0000WA | 48″ x 96″ Papermask | 32.00 | Bulk | 180 |
| 1AGL340A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 125 |

## 0.080″ (2.0mm)

| Item # | Size | Sq.Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 11G0810A | 8″ x 10″ | .55 | 15 | |
| 11G0670A | 18″ x 24″ | 3.00 | 10 | |
| 11G0075A | 24″ x 48″ | 8.00 | 10 | |
| 11G0830A | 28″ x 30″ | 5.83 | 12 | |
| 11G0184A | 30″ x 32″ | 6.66 | 10 | |
| 11G0188A | 30″ x 36″ | 7.50 | 10 | |
| 1AG0500A | 30″ x 60″ | 12.50 | 5 | |
| 11G0231A | 32″ x 44″ | 9.78 | 10 | |
| 1AG0575A | 36″ x 72″ | 18.00 | 5 | |
| 1AG0595A | 48″ x 96″ | 32.00 | 5 | |
| 1AG0389A | 48″ x 96″ Polyfilm | 32.00 | Bulk | 130 |
| 1AG1684A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 100 |

## 0.093″ (2.3mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AU0515A | 11″ x 14″ | 1.07 | 10 | |
| 1AU0187A | 18″ x 24″ | 3.00 | 10 | |
| 1AU0202A | 20″ x 32″ | 4.44 | 10 | |
| 1AU0228A | 24″ x 28″ | 4.67 | 10 | |
| 1AU0238A | 24″ x 30″ | 5.00 | 10 | |
| 1AU0222A | 24″ x 36″ | 6.00 | 10 | |
| 1AU0262A | 24″ x 48″ | 8.00 | 10 | |
| 1AU0252A | 26″ x 28″ | 5.06 | 10 | |
| 1AU0254A | 28″ x 30″ | 5.83 | 10 | |
| 1AU0264A | 28″ x 32″ | 6.22 | 10 | |
| 1AU0314A | 30″ x 32″ | 6.66 | 10 | |
| 1AU0364A | 30″ x 36″ | 7.50 | 10 | |
| 1AU0395A | 30″ x 60″ | 12.50 | 5 | |
| 1AU0394A | 30″ x 60″ | 12.50 | 10 | |
| 1AU0434A | 32″ x 32″ | 7.11 | 10 | |
| 1AU0464A | 32″ x 40″ | 8.89 | 10 | |
| 1AU0474A | 32″ x 44″ | 9.78 | 10 | |
| 1AU0564A | 36″ x 36″ | 9.00 | 10 | |
| 1AU0593A | 36″ x 48″ | 12.00 | 10 | |
| 1AU0611A | 36″ x 60″ | 15.00 | 10 | |
| 1AU0660A | 36″ x 72″ | 18.00 | 5 | |
| 1AU0664A | 36″ x 72″ | 18.00 | 10 | |
| 1AU0803A | 48″ x 96″ | 32.00 | 5 | |
| 1AU0800A | 48″ x 96″ 2 mil Polyfilm | 32.00 | Bulk | 112 |
| 1AU0799A | 48″ x 96″ Papermask | 32.00 | Bulk | 112 |
| 1AU0913A | 60″ x 96″ Polyfilm | 40.00 | 5 | |
| 1AU0911A | 60″ x 96″ 2 mil Polyfilm | 40.00 | Bulk | 90 |

## 0.100″ (2.5mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 11G0606A | 16″ x 20″ | 2.22 | 10 | |
| 1AG0918A | 18″ x 24″ | 3.00 | 5 | |
| 11G0018A | 18″ x 24″ | 3.00 | 10 | |
| 1AG0930A | 20″ x 32″ | 4.44 | 5 | |
| 11G0630A | 20″ x 32″ | 4.44 | 10 | |
| 1AG0959A | 24″ x 28″ | 4.67 | 5 | |
| 11G0659A | 24″ x 28″ | 4.67 | 10 | |
| 1AG0961A | 24″ x 30″ | 5.00 | 5 | |
| 11G0661A | 24″ x 30″ | 5.00 | 10 | |
| 1AG0970A | 24″ x 36″ | 6.00 | 5 | |
| 1AG0975A | 24″ x 48″ | 8.00 | 5 | |
| 11G0675A | 24″ x 48″ | 8.00 | 10 | |
| 1AG0995A | 26″ x 28″ | 5.06 | 5 | |
| 11G0760A | 28″ x 28″ | 5.44 | 10 | |
| 1AG1062A | 28″ x 30″ | 5.83 | 5 | |
| 11G0762A | 28″ x 30″ | 5.83 | 10 | |
| 1AG1063A | 28″ x 32″ | 6.22 | 5 | |
| 11G0763A | 28″ x 32″ | 6.22 | 10 | |
| 1AG1082A | 30″ x 30″ | 6.25 | 5 | |
| 11G0782A | 30″ x 30″ | 6.25 | 10 | |
| 1AG1084A | 30″ x 32″ | 6.66 | 5 | |
| 11G0784A | 30″ x 32″ | 6.66 | 10 | |
| 1AG1086A | 30″ x 34″ | 7.08 | 5 | |
| 1AG1088A | 30″ x 36″ | 7.50 | 5 | |
| 11G0788A | 30″ x 36″ | 7.50 | 10 | |
| 1AG1100A | 30″ x 60″ | 12.50 | 5 | |
| 1AG1127A | 32″ x 40″ | 8.89 | 5 | |
| 11G0827A | 32″ x 40″ | 8.89 | 10 | |
| 1AG1131A | 32″ x 44″ | 9.78 | 5 | |
| 11G0831A | 32″ x 44″ | 9.78 | 10 | |
| 1AG1160A | 36″ x 36″ | 9.00 | 5 | |
| 11G0860A | 36″ x 36″ | 9.00 | 10 | |
| 11G0862A | 36″ x 40″ | 10.00 | 10 | |
| 1AG1165A | 36″ x 48″ | 12.00 | 5 | |
| 1AG1175A | 36″ x 72″ | 18.00 | 5 | |
| 1AG1180A | 38″ x 50″ | 13.19 | 5 | |
| 1AG1190A | 48″ x 72″ | 24.00 | 5 | |
| 1AG1195A | 48″ x 96″ | 32.00 | 5 | |
| 1AG0988A | 48″ x 96″ Polyfilm | 32.00 | Bulk | 112 |

**RUN-TO-SIZE AVAILABLE**

## Acrylic Accessories

| Item # | Description | Pack Qty. |
|---|---|---|
| 1999999A | Plastic Cutting Tool | 12 |
| 1999990A | Plastic Cleaner | 12 |

## 0.118″ (3.0mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG1549A | 24″ x 48″ | 8.00 | 5 | |
| 1AG1700A | 30″ x 60″ | 12.50 | 5 | |
| 1AG3622A | 36″ x 72″ | 18.00 | 4 | |
| 1AG1775A | 36″ x 72″ | 18.00 | 5 | |
| 1AG1496A | 48″ x 96″ | 32.00 | 3 | |
| 1AG1438A | 48″ x 96″ Polyfilm | 32.00 | Bulk | 96 |
| 1AG1447A | 48″ x 96″ Papermask | 32.00 | Bulk | 96 |
| 1AG3716A | 48″ x 96″ TG Film | 32.00 | Bulk | 96 |
| 1AG1450A | 48″ x 120″ Papermask | 40.00 | Bulk | 50 |
| 1AG9726A | 48″ x 120″ Polyfilm | 40.00 | Bulk | 50 |
| 1AG4555A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 80 |
| 1AG1083A | 51″ x 100″ Polyfilm | 35.41 | Bulk | 84 |
| 1AG1085A | 51″ x 100″ Papermask | 35.41 | Bulk | 84 |
| 1AG4491A | 60″ x 96″ Polyfilm | 40.00 | Bulk | 76 |
| 1AG4465A | 60″ x 96″ Papermask | 40.00 | Bulk | 76 |
| 1AG2475A | 60″ x 96″ TG Film | 40.00 | Bulk | 76 |
| 1AG1738A | 61″ x 97″ Polyfilm | 41.06 | Bulk | 70 |
| 1AG1069A | 60″ x 120″ Polyfilm | 50.00 | Bulk | 60 |
| 1AG1317A | 72″ x 96″ Polyfilm | 48.00 | Bulk | 60 |
| 1AG4473A | 72″ x 96″ Papermask | 48.00 | Bulk | 60 |
| 1AG8256A | 75″ x 100″ Polyfilm | 62.50 | Bulk | 30 |

## 0.177″ (4.5mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG8509A | 48″ x 96″ Polyfilm | 32.00 | Bulk | 60 |
| 1AG8511A | 48″ x 96″ Papermask | 32.00 | Bulk | 60 |
| 1AG3704A | 48″ x 96″ TG Film | 32.00 | Bulk | 60 |
| 1AG8516A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 57 |
| 1AG3053A | 51″ x 100″ Polyfilm | 35.41 | Bulk | 57 |
| 1AG8202A | 51″ x 100″ Papermask | 35.41 | Bulk | 57 |
| 1AG8588A | 60″ x 96″ Polyfilm | 40.00 | Bulk | 48 |
| 1AG8512A | 60″ x 96″ Papermask | 40.00 | Bulk | 48 |
| 1AG9172A | 61″ x 97″ Polyfilm | 41.06 | Bulk | 45 |
| 1AG5121A | 72″ x 96″ Polyfilm | 48.00 | Bulk | 40 |
| 1AG8824A | 72″ x 96″ Papermask | 48.00 | Bulk | 40 |
| 1AG1769A | 75″ x 100″ Polyfilm | 62.50 | Bulk | 25 |

## 0.187″ (4.7mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG8706A | 48″ x 96″ | 32.00 | 2 | |

## RUN-TO-SIZE AVAILABLE

For custom and non-stock sizes, thicknesses, packaging, masking and tolerance requirements, call for availability and quotation.

## 0.220″ (5.6mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG2123A | 18″ x 24″ | 3.00 | 4 | |
| 1AG2196A | 24″ x 48″ Polyfilm | 8.00 | 4 | |
| 1AG2124A | 30″ x 36″ Polyfilm | 7.50 | 4 | |
| 1AG3623A | 36″ x 72″ Polyfilm | 18.00 | 3 | |
| 1AG2180A | 48″ x 96″ Polyfilm | 32.00 | 2 | |
| 1AG9412A | 48″ x 96″ Polyfilm | 32.00 | Bulk | 50 |
| 1AG9400A | 48″ x 96″ Papermask | 32.00 | Bulk | 50 |
| 1AG3705A | 48″ x 96″ TG Film | 32.00 | Bulk | 50 |
| 1AG9244A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 40 |
| 1AG7014A | 48″ x 120″ Polyfilm | 40.00 | Bulk | 24 |
| 1AG9795A | 48″ x 120″ Papermask | 40.00 | Bulk | 35 |
| 1AG9150A | 51″ x 100″ Polyfilm | 35.41 | Bulk | 45 |
| 1AG9038A | 51″ x 100″ Papermask | 35.41 | Bulk | 45 |
| 1AG9032A | 60″ x 96″ Polyfilm | 40.00 | Bulk | 40 |
| 1AG9110A | 60″ x 96″ Papermask | 40.00 | Bulk | 40 |
| 1AG2472A | 60″ x 96″ TG Film | 40.00 | Bulk | 40 |
| 1AG9015A | 60″ x 120″ Polyfilm | 50.00 | Bulk | 30 |
| 1AG9796A | 72″ x 96″ Polyfilm | 48.00 | Bulk | 32 |
| 1AG9103A | 72″ x 96″ Papermask | 48.00 | Bulk | 32 |
| 1AG3725A | 72″ x 96″ TG Film | 48.00 | Bulk | 32 |

## 0.236″ (6.0mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG1786A | 48″ x 96″ Polyfilm | 32.00 | Bulk | 48 |
| 1AG1941A | 48″ x 96″ Papermask | 32.00 | Bulk | 48 |
| 1AG3706A | 48″ x 96″ TG Film | 32.00 | Bulk | 48 |
| 1AG8541A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 40 |
| 1AG1736A | 61″ x 97″ Polyfilm | 41.06 | Bulk | 25 |
| 1AG9238A | 75″ x 100″ Polyfilm | 62.50 | Bulk | 25 |

## 0.375″ (9.5mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG9848A | 48″ x 96″ Papermask | 32.00 | Bulk | 32 |
| 1AG5136A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 25 |

## 0.500″ (12.0mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG9900A | 48″ x 96″ Papermask | 32.00 | Bulk | 24 |
| 1AG3718A | 48″ x 96″ TG Film | 32.00 | Bulk | 24 |
| 1AG4993A | 49″ x 97″ Polyfilm | 33.00 | Bulk | 20 |

## 0.750″ (19.0mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG7801A | 48″ x 96″ Papermask | 32.00 | Bulk | 16 |

## 1.00″ (25.0mm)

| Item # | Size | Sq. Ft. | Pack Qty. | Skid Qty. |
|---|---|---|---|---|
| 1AG7800A | 48″ x 96″ Papermask | 32.00 | Bulk | 12 |

# OPTIX® Colored Acrylic Flat Sheet

## OPTIX COLORED ACRYLIC FLAT SHEET

OPTIX continuously processed colored acrylic sheet is offered in thicknesses of 0.060″ to 1.0″ and widths up to 100″. This sheet is an excellent choice for skylights, displays, P.O.P., sunrooms, awnings and signage. Custom color matching available. Call for quotation on nonstock sizes, thicknesses and minimum quantities.

### Colors Available:

| | |
|---|---|
| 2067 White | 2514 Gray |
| 2447 White | 2515 Gray |
| 7328 White | 2538 Gray |
| 2406 White | 2370 Bronze |
| 3015 White | 2404 Bronze |
| 2025 Black | 2412 Bronze |
| 2064 Gray | 2540 Bronze |
| 2074 Gray | 2539 Bronze |
| 2094 Gray | 3030 Green Edge TemperElite |

### Light Transmission at 0.118″*

| Color | % |
|---|---|
| Clear | 92% |
| 2412 | 27% |
| 2404 | 49% |
| 2370 | 10% |
| 2540 | 75% |
| 2064 | 27% |
| 2074 | 13% |
| 2094 | 45% |
| 2515 | 75% |
| 2538 | 16% |
| 2539 | 60% |
| 2067* | 77% |
| 2406* | 68% |
| 2447* | 53% |
| 7328* | 32% |
| 3015* | 3% |
| 2514 | 58% |

* Light transmission changes with thickness.

## Colored Acrylic Flat Sheet

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| 1X49013A | 0.060″ | 48″ x 96″ | 2025 Black Papermask | 25/Skid |
| 1X75209A | 0.060″ | 48″ x 96″ | 2447 White Polyfilm | 25/Skid |
| 1X01237A | 0.060″ | 48″ x 96″ | 2447 White Papermask | 10/Pack |
| 1X01238A | 0.060″ | 48″ x 96″ | 7328 White Papermask | 10/Pack |
| 1X48140A | 0.093″ | 30″ x 36″ | 2412 Bronze Polyfilm | 10/Pack |
| 1X52011A | 0.118″ | 48″ x 96″ | 2025 Black Polyfilm | 48/Skid |
| 1X50013A | 0.118″ | 48″ x 96″ | 2025 Black Papermask | 5/Pack |
| 1X04062A | 0.118″ | 48″ x 96″ | 2025 Black Polyfilm | 5/Pack |
| 1X03133A | 0.118″ | 48″ x 96″ | 2447 White Papermask | 80/Skid |
| 1X52153A | 0.118″ | 48″ x 96″ | 2447 White Polyfilm | 48/Skid |
| 1X04064A | 0.118″ | 48″ x 96″ | 2447 White Polyfilm | 5/Pack |
| 1X06899A | 0.118″ | 48″ x 96″ | 3015 White Polyfilm | 48/Skid |
| 1X04063A | 0.118″ | 48″ x 96″ | 3015 White Polyfilm | 5/Pack |
| 1X52135A | 0.118″ | 48″ x 96″ | 7328 White Polyfilm | 80/Skid |
| 1X03714A | 0.118″ | 48″ x 96″ | 7328 White Polyfilm | 48/Skid |
| 1X04065A | 0.118″ | 48″ x 96″ | 7328 White Polyfilm | 5/Pack |
| 1X04066A | 0.118″ | 48″ x 96″ | 2412 Bronze Polyfilm | 5/Pack |
| 1X04067A | 0.118″ | 48″ x 96″ | 2404 Bronze Polyfilm | 5/Pack |
| 1X04069A | 0.118″ | 48″ x 96″ | 2370 Bronze Polyfilm | 5/Pack |
| 1X04070A | 0.118″ | 48″ x 96″ | 2074 Smoke Polyfilm | 5/Pack |
| 1X52023A | 0.118″ | 48″ x 96″ | 2064 Smoke Polyfilm | 48/Skid |
| 1X04071A | 0.118″ | 48″ x 96″ | 2064 Smoke Polyfilm | 5/Pack |
| 1X04068A | 0.118″ | 48″ x 96″ | 3030 Green Polyfilm | 5/Pack |

# OPTIX® Colored Acrylic Flat Sheet

**Colored Acrylic Flat Sheet**

| Item # | Thickness | Description | | Quantity |
|--------|-----------|-------------|---|----------|
| 1X52232A | 0.118˝ | 49˝ x 97˝ | 2025 Black Polyfilm | 80/Skid |
| 1X87468A | 0.118˝ | 49˝ x 97˝ | 2447 White Polyfilm | 80/Skid |
| 1X03186A | 0.118˝ | 48˝ x 120˝ | 7328 White Polyfilm | 5/Skid |
| 1X71003A | 0.177˝ | 24˝ x 36˝ | 3030 Green Edge Polyfilm | 6/Pack |
| 1X52115A | 0.177˝ | 48˝ x 96˝ | 2025 Black Polyfilm | 28/Skid |
| 1X04048A | 0.177˝ | 48˝ x 96˝ | 2025 Black Polyfilm | 3/Pack |
| 1X03331A | 0.177˝ | 48˝ x 96˝ | 2447 White Polyfilm | 28/Skid |
| 1X31488A | 0.177˝ | 49˝ x 97˝ | 2025 Black Polyfilm | 57/Skid |
| 1X04050A | 0.177˝ | 48˝ x 96˝ | 2447 White Polyfilm | 3/Pack |
| 1X06894A | 0.177˝ | 48˝ x 96˝ | 3015 White Polyfilm | 28/Skid |
| 1X04049A | 0.177˝ | 48˝ x 96˝ | 3015 White Polyfilm | 3/Pack |
| 1X27240A | 0.177˝ | 48˝ x 96˝ | 7328 White Polyfilm | 28/Skid |
| 1X04047A | 0.177˝ | 48˝ x 96˝ | 7328 White Polyfilm | 3/Pack |
| 1X04051A | 0.177˝ | 48˝ x 96˝ | 2412 Bronze Polyfilm | 3/Pack |
| 1X04046A | 0.177˝ | 48˝ x 96˝ | 2074 Smoke Polyfilm | 3/Pack |
| 1X04052A | 0.177˝ | 48˝ x 96˝ | 2064 Smoke Polyfilm | 3/Pack |
| 1X35516A | 0.220˝ | 48˝ x 96˝ | 2025 Black Polyfilm | 24/Skid |
| 1X04054A | 0.220˝ | 48˝ x 96˝ | 2025 Black Polyfilm | 2/Pack |
| 1X35534A | 0.220˝ | 48˝ x 96˝ | 2447 White Polyfilm | 24/Skid |
| 1X04056A | 0.220˝ | 48˝ x 96˝ | 2447 White Polyfilm | 2/Pack |
| 1X06892A | 0.220˝ | 48˝ x 96˝ | 3015 White Polyfilm | 24/Skid |
| 1X04055A | 0.220˝ | 48˝ x 96˝ | 3015 White Polyfilm | 2/Pack |
| 1X35511A | 0.220˝ | 48˝ x 96˝ | 7328 White Polyfilm | 24/Skid |
| 1X04057A | 0.220˝ | 48˝ x 96˝ | 7328 White Polyfilm | 2/Pack |
| 1X04058A | 0.220˝ | 48˝ x 96˝ | 2412 Bronze Polyfilm | 2/Pack |
| 1X04059A | 0.220˝ | 48˝ x 96˝ | 2074 Smoke Polyfilm | 2/Pack |
| 1X04053A | 0.220˝ | 48˝ x 96˝ | 2064 Smoke Polyfilm | 2/Pack |
| 1X31489A | 0.236˝ | 49˝ x 97˝ | 2025 Black Polyfilm | 45/Skid |
| 1X60650A | 0.236˝ | 49˝ x 97˝ | 2447 White Polyfilm | 45/Skid |
| 1X06120A | 0.236˝ | 49˝ x 97˝ | 3015 White Polyfilm | 45/Skid |
| 1X72151A | 0.236˝ | 49˝ x 97˝ | 7328 White Polyfilm | 45/Skid |

**RUN-TO-SIZE AVAILABLE**

# OPTIX® Run-To-Size Program

## OPTIX RUN-TO-SIZE PROGRAM

PLASKOLITE offers the flexibility of running OPTIX general-purpose extruded acrylic, SG sheet products, impact-modified acrylic sheet (DURAPLEX®, SG05, SG10) and FABBACK® acrylic mirror sheet, to individual specifications:

» Allows for purchase of exact sizes, in exact quantities

» Eliminates scrap, unused inventory and year end drops

» Saves time, space and prolongs life of fabrication equipment

**Low minimum order requirements**

**Quick turnaround time–the shortest in the industry**

**Wide range of sizes up to 105˝**

**Thickness range from 0.040˝ to 1.0˝**

| Thickness | Width | Length |
|---|---|---|
| 0.040˝ * | 5˝ | 14˝ |
| 0.060˝ ** | 5˝ | 14˝ |
| 0.080˝ ** | 5˝ | 14˝ |
| 0.100˝ ** | 5˝ | 14˝ |
| 0.125˝ ** | 5˝ | 14˝ |
| 0.177˝ | 28˝ | 20˝ |
| 0.187˝ | 28˝ | 20˝ |
| 0.220˝ | 28˝ | 20˝ |
| 0.236˝ | 28˝ | 20˝ |
| 0.250˝ | 28˝ | 20˝ |
| 0.375˝ | 28˝ | 20˝ |
| 0.500˝ | 30˝ | 30˝ |
| 0.750˝ *** | 30˝ | 30˝ |
| 1.00˝ *** | 30˝ | 30˝ |

## Non-Stock Material:

» Special tolerances, film coverages, thicknesses and sizes available

» Saw cut edges available

» 3,000 lb. minimum order required for a custom thickness of clear acrylic

» 3,000 lb. minimum required for color production run

» 5,000 lb. minimum required for 0.500˝ color production run

» 10,000 lb. minimum required for color production run over 0.500˝

## On line production minimum thickness, length and width requirements

» Saw cut and slitter/hot knife edges available.

» Sheet edges may vary, please specify preferred edge cut at the time of order.

## Run-to-Size sheet minimums

1,000 LB. minimum per size

\* 20,000 lb. minimum required for production run

\*\* 10,000 lb. minimum required for part lengths less than 14˝

\*\*\* 10,000 lb. minimum required per size change

## Colors, DURAPLEX and Patterns

» 3,000 lb. minimum required for colors

» 20,000 lb. minimum for patterns

» 3,000 lb. minimum required for 0.500˝ colors

» 1,000 lb. minimum for required per size change

**RUN-to-SIZE IS ALSO AVAILABLE IN TUFFAK® POLYCARBONATE SHEET – CONTACT CUSTOMER SERVICE FOR DETAILS**

# DURAPLEX®

## Impact-Modified

## DURAPLEX IMPACT-MODIFIED ACRYLIC SHEET

DURAPLEX impact-modified acrylic sheets (also known as Sign Grade acrylic) have higher impact strengths than general-purpose acrylic sheet. They have the superior optical properties necessary for high quality sign and lighting systems. These materials are easy to fabricate and form, with exceptional UV stability, for many interior and exterior applications.

DURAPLEX is available as a custom blend for impact strength and in a wide range of gauges, sheet sizes, colors and patterns as well as sheet or roll stock.

## APPLICATIONS INCLUDE:

Displays, skylights, signage, fabrication, windows, doors and any indoor/outdoor application where durability is needed

**RUN-TO-SIZE AVAILABLE**

## DURAPLEX Properties

| Property | Test Method | Units | Duraplex 40% | Duraplex 70% |
|---|---|---|---|---|
| **PHYSICAL** | | | | |
| Specific Gravity | ASTM D792 | – | 1.18 | 1.16 |
| Light Transmission - Total | ASTM D1003 | % | 92 | 90 |
| Light Transmission - Haze | ASTM D1003 | % | 2 | <3 |
| Water Absorption | ASTM D570 | % | 0.3 | 0.3 |
| Mold Shrinkage | ASTM D955 | mils/in | 3-6 | 3-6 |
| **MECHANICAL** | | | | |
| Tensile Strength | ASTM D638 | psi | 8,500 | 7,100 |
| Tensile Modulus of Elasticity | ASTM D638 | psi | 360,000 | 304,000 |
| Flexural Strength | ASTM D790 | psi | 12,800 | 10,610 |
| Izod Impact Strength - Notch | ASTM D256 | ft-lb./in | 0.6 | 0.9 |
| Rockwell hardness | ASTM D785 | M-Scale | M-73 | M-59 |
| **THERMAL** | | | | |
| Deflection Temperature @ 264 psi (1.8 MPa) | ASTM D648 | °F | 196 | 190 |
| Coefficient of Thermal Expansion | ASTM D696 | in/in/°F | $3.75 \times 10^{-5}$ | $4.5 \times 10^{-5}$ |
| Flammability (Burning Rate) | ASTM D635 | in/min | 0.85 | 1.53 |
| Flammability | UL 94 | – | HB | HB |
| Smoke Density Rating | ASTM D2843 | % | 7 | 11.5 |
| Self-Ignition Temperature | ASTM D1929 | °F | >850 | >850 |

## DURAPLEX Impact-Modified Acrylic

| Item # | Thickness | Description | | Sq. Ft. | Pack Quantity |
|---|---|---|---|---|---|
| 1X08123A | 0.080″ | 18″ x 24″ | 40% I, Acrylic | 3 | 10 |
| 1X08127A | 0.080″ | 24″ x 48″ | 40% I, Acrylic | 8 | 6 |
| 1X08126A | 0.080″ | 30″ x 60″ | 40% I, Acrylic | 12.5 | 5 |
| 1X08105A | 0.093″ | 8″ x 10″ | 40% I, Acrylic | .5 | 15 |
| 1X02448A | 0.093″ | 24″ x 48″ | 40% I, Acrylic | 8 | 10 |
| 1X02830A | 0.093″ | 28″ x 30″ | 40% I, Acrylic | 5.83 | 10 |
| 1X03244A | 0.093″ | 32″ x 44″ | 40% I, Acrylic | 9.77 | 10 |
| 1X47435A | 0.118″ | 48″ x 96″ | 70% I, Acrylic | 32 | 5 |
| 1X47433A | 0.177″ | 48″ x 96″ | 70% I, Acrylic | 32 | 3 |

# SIGN GRADE (SG) ROLL STOCK AND FLAT ACRYLIC SHEET

## PLASKOLITE OFFERS THREE GRADES OF ACRYLIC:

**SG** – OPTIX® Acrylic

**SG05** – DURAPLEX® Medium Impact Modified Acrylic

**SG10** – DURAPLEX High Impact Modified Acrylic

**Roll Stock Advantages:**

» Unlimited lengths, no seams in finished products

» Superior forming characteristics – no predrying, detailed vacuum definition, fast cycle times

» Better, total sheet usage – less scrap due to custom size roll widths and lengths

**Custom roll widths, lengths, thicknesses and colors available. Call for quotation and delivery information.**

**Roll stock has clear 2 mil film with SG strip tape.**

**Flat sheet is supplied with a 2 mil polyfilm unless otherwise noted. Papermasking or 3 mil formable film also offered.**

| Widths | Colors |
|---|---|
| 30˝ - 105˝ | Clear, 7328 White |

| Thickness | Length |
|---|---|
| 0.118˝ | 500' |
| 0.150˝ | 400' |
| 0.177˝ | 350' |
| 0.236˝ | 250' |

## SG – OPTIX Acrylic Flat Sheet - Clear and Colors Available

| Item # | Thickness | Description | | Skid Quantity |
|---|---|---|---|---|
| 1X52199A | 0.118˝ | 49˝ x 97˝ | 7328 White | 80 |
| 1X06118A | 0.118˝ | 49˝ x 97˝ | 3015 White | 80 |
| 1X27260A | 0.177˝ | 48˝ x 96˝ | 7328 White / Papermasked | 57 |
| 1X48214A | 0.177˝ | 49˝ x 97˝ | 7328 White | 57 |
| 1X06119A | 0.177˝ | 49˝ x 97˝ | 3015 White | 57 |
| 1X03212A | 0.177˝ | 49˝ x 97˝ | 2447 White | 57 |
| 1X15163A | 0.177˝ | 48˝ x 120˝ | 7328 White | 30 |
| 1X25097A | 0.177˝ | 51˝ x 100˝ | 7328 White | 57 |
| 1X11287A | 0.177˝ | 60˝ x 120˝ | 7328 White | 25 |
| 1X75128A | 0.177˝ | 75˝ x 100˝ | 7328 White | 30 |
| 1X27530A | 0.177˝ | 75˝ x 125˝ | 7328 White | 25 |
| 1X06120A | 0.236˝ | 49˝ x 97˝ | 3015 White | 45 |
| 1X60650A | 0.236˝ | 49˝ x 97˝ | 2447 White | 45 |

# SIGN GRADE (SG) ROLL STOCK AND FLAT ACRYLIC SHEET

## SG05-DURAPLEX® Medium Impact Acrylic Flat Sheet - Clear and Colors Available

| Item # | Thickness | Description | | Skid Quantity |
|---|---|---|---|---|
| 1X52208A | 0.118˝ | 51˝ x 100˝ | Clear | 48 |
| 1AG9811A | 0.177˝ | 51˝ x 100˝ | Clear | 25 |
| 1AG9812A | 0.177˝ | 75˝ x 100˝ | Clear | 25 |
| 1AG9813A | 0.177˝ | 75˝ x 125˝ | Clear | 25 |
| 1X11203A | 0.177˝ | 51˝ x 100˝ | 7328 White | 25 |
| 1X11202A | 0.177˝ | 75˝ x 100˝ | 7328 White | 25 |
| 1X11205A | 0.177˝ | 75˝ x 125˝ | 7328 White | 25 |

**Orientation/Shrinkage/Reversion:** SG Sheet exhibits the lowest shrinkage of any extruded acrylic sheet on the market.

## Physical Property & Performance Summary

| Property | ASTM | Units | SG | SG-05 | SG-10 |
|---|---|---|---|---|---|
| **OPTICAL** | | | | | |
| Light Transmittance | D1003 | % | 92 | 92 | 90 |
| Percent Haze | D1003 | % | 2 | 2 | <3 |
| **MECHANICAL** | | | | | |
| Izod Impact Strength (73°F) | D256 | ft.-lbs./in. | 0.4 | 0.7 | 1.1 |
| Izod Impact Strength (0°F) | D256 | ft.-lbs./in. | 0.2 | 0.2 | 0.5 |
| Tensile Modulus of Elasticity | D638 | PSI | 490,000 | 340,000 | 250,000 |
| Tensile Strength @ Yield | D638 | PSI | 11,030 | 8,000 | 5,600 |
| Flexural Strength @ Yield | D790 | PSI | 17,000 | 12,000 | 8,300 |
| Rockwell Hardness Method A | D785 | – | 95 | 68 | 46 |
| **THERMAL** | | | | | |
| Deflection Temperature (264 psi) | D648 | °F | 203 | 194 | 185 |
| Coefficient of Thermal Expansion | D696 | in./(in./°F) | $3 \times 10^{-5}$ | $4 \times 10^{-5}$ | $5 \times 10^{-5}$ |
| **PROCESSING** | | | | | |
| Density Specific Gravity | D792 | – | 1.19 | 1.17 | 1.15 |
| Moisture Water Absorption | D570 | % wt. gain | 0.4 | 0.3 | 0.3 |
| Dimensional Molding Shrinkage | D955 | mils./in. | 2 - 6 | 3 - 6 | 3 - 6 |

## Suggested Thermoforming Conditions

| Property | Units | SG | SG-05 | SG-10 |
|---|---|---|---|---|
| **Thermoforming for Sheet Thickness 0.100˝ to 0.375˝** | | | | |
| Optimal Forming Temperature | °F | 320 | 315 | 310 |
| Forming Temperature Range | °F | 270-350 | 270-350 | 270-350 |
| Heating Time Two Sided Infrared | Minutes | 1 - 10 | 1 - 10 | 1 - 10 |
| Cooling Time | Minutes | 0.5 - 4 | 0.5 - 4 | 0.5 - 4 |
| Optimal Mold Temperature | °F | 180 | 175 | 170 |
| **Free Shrinkage at Forming Temperature** | | | | |
| Machine Direction | % | 1 - 3 | 1 - 3 | 1 - 3 |
| Transfer Direction | % | 0 | 0 | 0 |

## OPTIX-*DA* / *-E-DA* Digital Printing

### DIGITAL ACRYLIC SHEET

OPTIX DA (Digital Acrylic) sheet is specifically designed to provide optimal adhesion of UV curing inks without adhesion promoters. OPTIX DA delivers all the benefits of continuously processed acrylic sheet in a specially formulated product for printing. It can be used in interior and exterior (outward facing non-printable side) applications.

OPTIX DA provides superior strength and is available in a variety of gauges 0.060″ - 0.236″ with standard and run-to-size options. Call Customer Service for details.

### APPLICATIONS INCLUDE:
Signage, graphics and dry-erase boards

**DA**

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| DA10005A | 0.080″ | 48″ x 96″ | Polyfilm | 120 |
| DA10001A | 0.118″ | 48″ x 96″ | Polyfilm | 50 |
| DA10002A | 0.177″ | 48″ x 96″ | Polyfilm | 25 |
| DA10003A | 0.220″ | 48″ x 96″ | Polyfilm | 25 |
| DA10020A | 0.118″ | 48″ x 96″ | 7328 White Polyfilm | 25 |
| NGDA002A | 0.118″ | 48″ x 96″ | Clear Non-glare, Printed Adhesive/Polyfilm | 50 |
| NGDA003A | 0.177″ | 48″ x 96″ | Clear Non-glare, Printed Adhesive/Polyfilm | 28 |
| NGDA004A | 0.220″ | 48″ x 96″ | Clear Non-glare, Printed Adhesive/Polyfilm | 25 |

### OPTIX E-DA – ERASABLE DIGITAL ACRYLIC SHEET

OPTIX E-DA (Erasable Digital Acrylic) sheet is specifically designed to provide optimal adhesion of UV curing inks without adhesion promoters. OPTIX E-DA delivers all the benefits of continuously processed acrylic sheet in a specially formulated product for printing, but with the added benefit of an abrasion- and chemical-resistant coating on one side. This product is perfect for contemporary markerboard designs and a variety of interior anti-graffiti applications.

OPTIX E-DA provides superior strength and is available in a variety of gauges 0.118″ - 0.220″ with standard and run-to-size options. Call Customer Service for details.

### APPLICATIONS INCLUDE:
Signage, graphics and dry-erase boards

**E-Series**

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| E301501A | 0.118″ | 48″ x 96″ | 3015 White, Clear Polyfilm/White Papermask | 25 |
| ECL0000A | 0.118″ | 48″ x 96″ | Clear, Clear Polyfilm/White Papermask | 25 |
| ECL0001A | 0.220″ | 48″ x 96″ | Clear, Clear Polyfilm/White Papermask | 25 |

**E-DA**

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| EDA0094C | 0.118″ | 48″ x 96″ | Clear, Clear Polyfilm/White Papermask | 25 |
| EDA0000A | 0.220″ | 48″ x 96″ | Clear, Clear Polyfilm/White Papermask | 25 |

**RUN-TO-SIZE AVAILABLE**

## OPTIX-LD® Light Diffusing

### LIGHT DIFFUSING ACRYLIC SHEET

OPTIX LD light diffusing acrylic sheet provides superior diffusion properties that allow for greater sign design flexibility and slim profile channel (CAN) letters. Visible hot spots and luminance fluctuations are eliminated while maintaining optimum light transmission. Available in a variety of popular sign colors, SG05 impact-modified, frost and non-glare finishes. Custom color matching available. Supplied with papermask 2-sides unless noted below.



| Item # | Description | Quantity |
|---|---|---|
| **2447 LD WHITE** | | |
| 1X97003A | 0.118″ / 51″ x 100″ | 48/Mini Pallet |
| 1X97001A | 0.177″ / 51″ x 100″ | 28/Mini Pallet |
| 1X97002A | 0.177″ / 75″ x 100″ | 28/Mini Pallet |
| 1X11250A | 0.177″ / 51″ x 100″ / SG05 Polyfilm | 28/Mini Pallet |
| 1X11251A | 0.177″ / 75″ x 100″ / SG05 Polyfilm | 28/Mini Pallet |
| **7328 LD WHITE** | | |
| 1X48233A | 0.118″ / 51″ x 100″ | 48/Mini Pallet |
| 1X55052A | 0.118″ / 51″ x 100″ / SG05 Polyfilm | 48/Mini Pallet |
| **2406 LD WHITE** | | |
| 1X72156A | 0.118″ / 51″ x 100″ / Polyfilm | 28/Mini Pallet |
| 1X72157A | 0.177″ / 51″ x 100″ / Polyfilm | 28/Mini Pallet |
| 1X11414A | 0.177″ / 51″ x 100″ / SG05 Polyfilm | 28/Mini Pallet |
| 1X11410A | 0.177″ / 75″ x 100″ / SG05 Polyfilm | 28/Mini Pallet |
| 1X11416A | 0.177″ / 75″ x 125″ / SG05 Polyfilm | 25/Mini Pallet |
| 1X20727A | 0.500″ / 48″ x 96″ / Polyfilm | 24/Mini Pallet |
| **2114 LD BLUE** | | |
| 1X95005A | 0.118″ / 48″ x 96″ | 48/Mini Pallet |
| 1X04031A | 0.118″ / 48″ x 96″ | 5 Pack |
| 1X95002A | 0.177″ / 48″ x 96″ | 28/Mini Pallet |
| 1X04025A | 0.177″ / 48″ x 96″ | 3 Pack |
| 1X95010A | 0.177″ / 48″ x 96″ / Polyfilm | 28/Mini Pallet |
| **2050 LD BLUE** | | |
| 1X94003A | 0.118″ / 48″ x 96″ | 48/Mini Pallet |
| 1X94001A | 0.177″ / 48″ x 96″ | 28/Mini Pallet |
| **2157 LD RED** | | |
| 1X04029A | 0.118″ / 48″ x 96″ | 5 Pack |
| 1X04030A | 0.177″ / 48″ x 96″ | 3 Pack |
| **LD NON-GLARE** | | |
| 1X21591A | 0.177″ / 51″ x 100″ / 7328 LD White | 28/Mini Pallet |

| Item # | Description | Quantity |
|---|---|---|
| **2793 LD RED** | | |
| 1X04028A | 0.118″ / 48″ x 96″ | 5 Pack |
| 1X91002A | 0.177″ / 48″ x 96″ | 28/Mini Pallet |
| 1X91003A | 0.177″ / 48″ x 96″ | 7/Case |
| 1X91000A | 0.177″ / 75″ x 100″ | 28/Mini Pallet |
| 1X20077A | 0.177″ / 75″ x 125″ / SG05 | 25/Mini Pallet |
| 1X91001A | 0.177″ / 51″ x 100″ | 28/Mini Pallet |
| 1X10051A | 0.177″ / 72″ x 96″ / SG05 | 28/Mini Pallet |
| 1X52618A | 0.177″ / 75″ x 100″ / SG05 | 28/Mini Pallet |
| 1X91013A | 0.177″ / 48″ x 96″ / Polyfilm | 28/Mini Pallet |
| **2283 LD RED** | | |
| 1X92005A | 0.118″ / 48″ x 96″ | 48/Mini Pallet |
| 1X04026A | 0.118″ / 48″ x 96″ | 5 Pack |
| 1X92002A | 0.177″ / 48″ x 96″ | 28/Mini Pallet |
| 1X04027A | 0.177″ / 48″ x 96″ | 3 Pack |
| 1X92001A | 0.177″ / 51″ x 100″ | 28/Mini Pallet |
| 1X92000A | 0.177″ / 75″ x 100″ | 28/Mini Pallet |
| 1X92012A | 0.177″ / 51″ x 100″ / SG05 Polyfilm | 57/Mini Pallet |
| 1X92013A | 0.177″ / 75″ x 100″ / SG05 Polyfilm | 28/Mini Pallet |
| 1X92024A | 0.177″ / 48″ x 96″ / Polyfilm | 28/Mini Pallet |
| **2037 LD YELLOW** | | |
| 1X93005A | 0.118″ / 48″ x 96″ | 48/Mini Pallet |
| 1X04022A | 0.118″ / 48″ x 96″ | 5 Pack |
| 1X93002A | 0.177″ / 48″ x 96″ | 28/Mini Pallet |
| 1X04023A | 0.177″ / 48″ x 96″ | 3 Pack |
| 1X93001A | 0.177″ / 51″ x 100″ | 28/Mini Pallet |
| 1X93000A | 0.177″ / 75″ x 100″ | 28/Mini Pallet |
| **7235 LD GREEN** | | |
| 1X91060A | 0.118″ / 48″ x 96″ | 28/Mini Pallet |
| **8197 LD YELLOW** | | |
| 1X91061A | 0.118″ / 48″ x 96″ | 28/Mini Pallet |
| **2119 LD ORANGE** | | |
| 1X21573A | 0.177″ / 51″ x 100″ / SG05 | 28/Mini Pallet |
| 1X21572A | 0.177″ / 75″ x 100″ / SG05 | 28/Mini Pallet |

**RUN-TO-SIZE AVAILABLE**

# OPTIX-*FROST*/-*95* Frosted

## FROSTED ACRYLIC SHEET

OPTIX Frost has a frosting additive incorporated throughout the sheet, providing an elegant textured surface on both sides.

OPTIX 95 has a matte finish on one side that provides a decorative effect and reduces surface reflections.

## OPTIX Frost Clear Acrylic Sheet

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| 1AGL539A | 0.080″ | 24″ x 48″ | LED Papermask | 300/Bulk |
| 1AGL533A | 0.080″ | 51″ x 100″ | LED Papermask | 100/Bulk |
| 1X76205A | 0.118″ | 48″ x 96″ | Papermask | 50/Bulk |
| 1X76247A | 0.118″ | 48″ x 96″ | Papermask | 5/Pack |
| 1X76204A | 0.220″ | 48″ x 96″ | Papermask | 25/Bulk |
| 1X76246A | 0.220″ | 48″ x 96″ | Papermask | 2/Pack |

## OPTIX 95 Clear Acrylic Sheet with Matte Finish

| Item # | Thickness | Description | | Bulk Quantity |
|---|---|---|---|---|
| P951001A | 0.118″ | 48″ x 96″ | Printed/Plain Papermask | 50 |
| P952008A | 0.118″ | 51″ x 100″ | LED Printed/Plain Papermask | 50 |
| P951003A | 0.220″ | 48″ x 96″ | Printed/Plain Papermask | 25 |

**RUN-TO-SIZE AVAILABLE**

# OPTIX®-NG / -99  Non-Glare

## NON-GLARE ACRYLIC SHEET

OPTIX NG continuously processed non-glare acrylic is ideal for framing applications, signage, silkscreening and point of purchase displays.

Custom thicknesses and non-stock sizes offered. Call Customer Service for quotation and delivery information.



## OPTIX NG Non-Glare Heavy Matte

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| 1X4896UA | 0.060″ | 48″ x 96″ | Adhesive/polyfilm | 5/Pack |
| 1X48978A | 0.060″ | 48″ x 96″ | Adhesive/polyfilm | 125/Bulk |
| 1X48973P | 0.060″ | 48″ x 96″ | Papermask, 2 sides | 5/Pack |
| 1X48973A | 0.060″ | 48″ x 96″ | Papermask, 2 sides | 125/Bulk |
| 1X48947A | 0.080″ | 48″ x 96″ | Adhesive/polyfilm | 5/Pack |
| 1X4896PA | 0.080″ | 48″ x 96″ | Adhesive/polyfilm | 100/Bulk |
| 1X4896QA | 0.125″ | 48″ x 96″ | Adhesive/polyfilm | 5/Pack |
| 1X4896RA | 0.125″ | 48″ x 96″ | Adhesive/polyfilm | 50/Bulk |
| 1X48989A | 0.125″ | 48″ x 96″ | Papermask, 2 sides | 5/Pack |
| 1X48986A | 0.125″ | 48″ x 96″ | Papermask, 2 sides | 50/Bulk |
| 1X49137A | 0.177″ | 48″ x 96″ | Papermask, 2 sides | 3/Pack |
| 1X49135A | 0.220″ | 48″ x 96″ | TG Film/polyfilm | 2/Pack |
| 1X49126A | 0.220″ | 48″ x 96″ | Papermask, 2 sides | 2/Pack |

## OPTIX NG Non-Glare Light Matte

| Item # | Thickness | Description | | Bulk Quantity |
|---|---|---|---|---|
| 625017-1 | 0.080″ | 48″ x 96″ | TG Film/paper replacement film | 100 |
| 625203-1 | 0.080″ | 48″ x 96″ | Papermask, 2 sides | 100 |
| 625007-1 | 0.100″ | 48″ x 96″ | Adhesive polyfilm | 100 |
| 625015-1 | 0.118″ | 48″ x 96″ | TG Film/paper replacement film | 80 |
| 625303-1 | 0.125″ | 48″ x 96″ | Papermask, 2 sides | 80 |
| 625008-1 | 0.125″ | 48″ x 96″ | Adhesive polyfilm | 80 |
| 11-0060213 | 0.125″ | 60″ x 96″ | Adhesive/Polyfilm | 70 |

## OPTIX 99 Ultra-light Matte

| Item # | Thickness | Description | | Bulk Quantity |
|---|---|---|---|---|
| 1X53879A | 0.060″ | 48″ x 96″ | Papermask | 125 |
| 1X53880A | 0.080″ | 48″ x 96″ | Papermask | 100 |
| 1X53881A | 0.125″ | 48″ x 96″ | Papermask | 50 |
| 1X53882A | 0.125″ | 48″ x 96″ | Polyfilm | 50 |

# OPTIX® Patterned

## PATTERNED ACRYLIC SHEET

PLASKOLITE offers patterned acrylic sheet for applications such as shower doors, displays, indoor/outdoor furniture, point of purchase and home furnishing products.

Custom and non-stock thicknesses, colors, patterns and sizes available. Call Customer Service for quotation and delivery information.
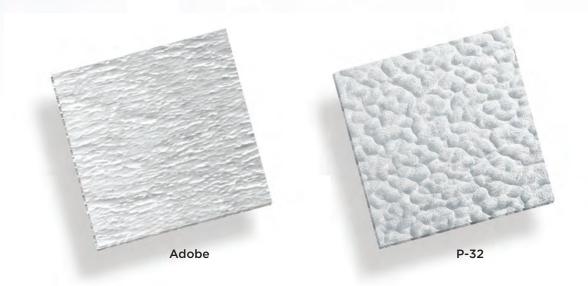
**OPTIX Patterned Acrylic**

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| 635000-1 | 0.220″ | 51″ x 100″ | Adobe (Double side pattern), Polyfilm | 45/Skid |
| P324896A | 0.220 | 48.5″ x 96.5″ | P-32 Worthington/Haircell, Polyfilm | 50/Skid |

**Maximum Width Offered – 51″**

Adobe

P-32

**RUN-TO-SIZE AVAILABLE**
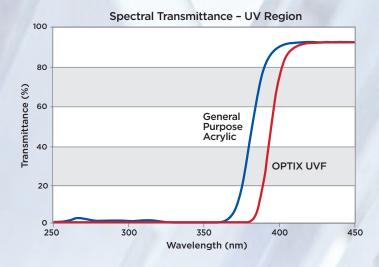
# OPTIX-FG Frame Grade

## PICTURE FRAME GLAZING SHEET

OPTIX FG Clear and UVF acrylic sheets are camera inspected throughout the manufacturing processes to ensure the highest quality.

» OPTIX FG is available in a thickness range from 0.060˝ to 0.118˝.

» OPTIX FG UVF is available in 0.098˝ and 0.118˝ thicknesses.

» UVF non-glare acrylic available.

**Spectral Transmittance – UV Region**

General Purpose Acrylic

OPTIX UVF

Transmittance (%)

Wavelength (nm)

## OPTIX FG Frame Grade Clear Acrylic

| Item # | Thickness | Description | | Sq. Ft. | Bulk Quantity |
|---|---|---|---|---|---|
| FG00023A | 0.060˝ | 48˝ x 96˝ | Polyfilm | 32 | 180 |
| FG00025A | 0.090˝ | 48˝ x 96˝ | Polyfilm | 32 | 120 |
| FG00027A | 0.118˝ | 48˝ x 96˝ | Polyfilm | 32 | 96 |
| FG00028A | 0.118˝ | 48˝ x 96˝ | Papermask | 32 | 96 |

## OPTIX FG Frame Grade UVF Clear Acrylic with Printed Papermask

| Item # | Thickness | Description | Sq. Ft. | Bulk Quantity |
|---|---|---|---|---|
| 1UVF040A | 0.098˝ | 48˝ x 96˝ | 32 | 56 |
| 1UVF 041A | 0.118˝ | 48˝ x 96˝ | 32 | 48 |

OPTIX Frame Grade Clear and Non-glare acrylic sheet are stocked in a variety of popular picture frame sizes. Non-glare acrylic reduces glare and reflection from any viewing angle.

## 0.040˝ (1.0 mm) Clear Acrylic with Polyfilm

| Item # | Size | Sq. Ft. | Quantity |
|---|---|---|---|
| 1AU0920A | 8.5˝ x 11˝ | 0.64 | 77/Bulk |
| 1AU0921A | 11˝ x 14˝ | 1.06 | 47/Pack |
| 1AU0924A | 16˝ x 20˝ | 2.22 | 23/Pack |
| 1AU0925A | 22˝ x 28˝ | 4.27 | 12/Pack |
| 1AU0926A | 24˝ x 36˝ | 6.00 | 8/Pack |
| 1AG8458A | 50.5˝ x 100.5˝ | 34.17 | 120/Bulk |

## 0.050˝ (1.2 mm) Non-Glare Acrylic with Printed Adhesive Film

| Item # | Size | Sq. Ft. | Quantity |
|---|---|---|---|
| 1X60068A | 8˝ x 10˝ | 0.55 | 90/Bulk |
| 1X09241A | 8˝ x 10˝ | 0.55 | 25/Pack |
| 1X09242A | 11˝ x 14˝ | 1.06 | 25/Pack |
| 1X60069A | 11˝ x 14˝ | 1.06 | 47/Pack |
| 1X09244A | 12˝ x 16˝ | 1.33 | 25/Pack |

## OPTIX-SR® Scratch Resistant

### SCRATCH RESISTANT ACRYLIC SHEET

OPTIX SR acrylic sheet is optically clear and is protected with a scratch-resistant coating. The proprietary hard-coat is for flat sheet substrates while maintaining the optical benefits associated with OPTIX.

### APPLICATIONS INCLUDE:

Retail displays, table tops, door panels, scheduling boards, restaurant menu applications

| Solvent Exposure Result | |
|---|---|
| Acetone | |
| Chlorine Bleach | |
| Fantastik® All-Purpose Cleaner | |
| Gasoline | |
| Methanol | Good |
| Methyl Ethyl Ketone | |
| Methylene Chloride | |
| 10% Sodium Hydroxide | |
| 40% Sulfuric Acid | |
| Windex® Glass Cleaner | |

| Environmental Durability | Test Method | Result |
|---|---|---|
| High Humidity Testing | 140°F / 95% RH / 168 HRS | Pass |
| Long Term Heat Resistance | 104°F / 168 HRS | Pass |
| High Heat Resistance | 140°F / 12 HRS | Pass |
| Long Term Low Temperature | -4°F / 168 HRS | Pass |
| Thermal Cycling | (-4°F / 12 HRS) + (140°F / 12 HRS) x 3 cycles | Pass |

### Abrasion Resistance Test

| Test Method | Change in Haze / ASTM D 1003 | |
|---|---|---|
| | Uncoated Acrylic | OPTIX SR |
| Steel Wool Rotary Test - 12 and 15 psi - 5 revolutions | 25% | Less than 1% |
| Taber Abrasion 500 grams - 100 revolutions | 37% | Less than 5% |
| Eraser Abrasion | NA | 0 Rating |

### OPTIX SR

| Item # | Thickness | Description |
|---|---|---|
| C100061M | 0.118″ | 48″ x 96″ Clear / SR-1 Coated 1 side, Scratch Resistant Coating / Papermask 1 side |
| C100063M | 0.118″ | 48″ x 96″ Clear / SR-2 Coated 2 sides, Scratch Resistant Coating / Papermask 2 sides |

**RUN-TO-SIZE AVAILABLE**

**AMGARD** SAFETY SHIELDS

# Antimicrobial

## AMGARD ACRYLIC SHEET

AMGARD clear acrylic sheet is formulated with a silver ion antimicrobial technology that protects the sheet surface from microorganism growth and remains active for the entire life of the product. When used as protective barriers, AMGARD acrylic sheet provides a clear, solid partition between individuals. It is easy to fabricate and form for a wide range of interior applications.

» Independent laboratory tested

» Inhibits microbe surface degradation

» Half the weight of glass

» Does not shatter into sharp-edged pieces like glass

» Easy to fabricate & clean

*AMGARD is formulated with silver ion antimicrobial technology to protect the sheet's surface. It is not designed to prevent the transmission of any disease or infectious agent.



**APPLICATIONS INCLUDE:**
Protective barriers, office partitions, safety enclosures, equipment housings

## AMGARD SR ACRYLIC SHEET

AMGARD SR scratch-resistant acrylic sheet is formulated with silver ion antimicrobial technology that protects the sheet surface from microorganism growth and remains active for the entire life of the product. The proprietary coating system provides enhanced abrasion resistance to acrylic's inherent excellent clarity. The antimicrobial coating also adds exceptional resistance to common disinfecting cleaning chemicals. The result is a high optical quality and tough antimicrobial sheet that can stand up to today's demanding safety barrier environments.

Additional benefits of AMGARD SR to those of AMGARD:

» Abrasion resistant    » Chemical resistant    » High clarity

### OPTIX® AMGARD and AMGARD SR

**Packaging**

» Stock case packaging



**APPLICATIONS INCLUDE:**
Protective barriers, office partitions, safety enclosures, interior windows and glazing

**Masking**
Standard Masking Configurations
Gauges: .0.220˝- stock clear poly film masking two (2) sides

| Full Pallet Packaging | | |
|---|---|---|
| **Thickness** | **Sheet Size** | **Quantity** |
| 0.220˝ | 48 x 96˝ | 50 |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact Customer Service to confirm stock availability**

**Standard Sizes**
Length: 48˝
Width: 96˝

**Tolerances**
Width & Length: + 0.000˝ (Minimum) + 0.250˝ (Maximum)

**Colors, Standard**
Clear

## FABBACK® Mirror

### MIRRORED ACRYLIC SHEET

FABBACK acrylic mirror utilizes the industry's toughest paint backing to protect the mirrored finish during fabrication. The mirrored surface is obtained through a vacuum metallizing process with aluminum, which provides a superior reflecting surface.

FABBACK acrylic mirror is ideally suited for a variety of applications using standard plastic fabrication processes and techniques.

» Economical

» Does not shatter into sharp-edged pieces like glass

» Scratch-resistant coating available

### APPLICATIONS INCLUDE:

POP displays, security mirrors, artwork, home furnishing, novelty, license plates

**Standard Sheet Sizes**

Lengths: 96˝

Widths: 48˝

1˝ overage on length and width

**Masking**

2 mil Polyfilm, 3 mil laser cuttable film or papermask

Protective backings: Pressure Sensitive and Papermask

Gauges: .0.060˝- 0.236˝

### Clear Acrylic Mirror

| Item # | Description | | | Quantity |
|---|---|---|---|---|
| **0.060˝ (1.5 mm)** | | | | |
| C400011M | 48˝ x 96˝ | Film 1 side | | 120/Bulk |
| **0.080˝ (2.0 mm)** | | | | |
| C500001M | 48˝ x 96˝ | Film 1 side | | 100/Bulk |
| **0.118˝ (3.0 mm)** | | | | |
| C100047M | 48˝ x 96˝ | Film 1 side | | 80/Bulk |
| C100048M | 48˝ x 96˝ | Film 1 side | | 40/Bulk |
| C100079M | 48˝ x 96˝ | Film 1 side/Papermask paint side | | 80/Bulk |
| C100060M | 48˝ x 96˝ | SR-1 coating mirror side/Papermask paint side | | 15/Case |
| CP10076M | 23 3/4˝ x 47 3/4˝ | Film 1 side (mirror) | | 5/Case |
| C100055M | 48˝ x 96˝ | Papermask 1 side (mirror) | | 80/Bulk |
| C100049M | 48˝ x 96˝ | Papermask 1 side (mirror) | | 40/Bulk |
| C100077M | 48˝ x 96˝ | Papermask 2 sides | | 80/Bulk |
| C100073M | 48˝ x 96˝ | Film 1 side | | 15/Case |
| C100816M | 48˝ x 96.5˝ | 3 mil laser poly | | 80/Bulk |
| C100828M | 48˝ x 96.5˝ | 3 mil laser poly/pressure sensitive | | 80/Bulk |
| C100075M | 60˝ x 96˝ | Film 1 side | | 80/Bulk |
| C100430M | 72˝ x 96˝ | Film 1 side | | 30/Bulk |
| **0.220˝ (5.6 mm)** | | | | |
| C800009M | 48˝ x 96˝ | Film 1 side | | 50/Bulk |
| C800007M | 48˝ x 96˝ | Film 1 side | | 12/Case |
| C800020M | 48˝ x 96˝ | Papermask 2 sides | | 50/Bulk |
| **0.236˝ (6.0 mm)** | | | | |
| C200021M | 48˝ x 96˝ | Film 1 side | | 40/Bulk |
| C200035M | 48˝ x 96˝ | Film 1 side | | 10/Case |

# FABBACK® Colored Mirror

## COLORED ACRYLIC MIRROR SHEET

PLASKOLITE stocks FABBACK mirrored acrylic sheet in many brilliant colors in 0.118″ (3.0 mm) thickness. All mirror acrylic colored sheet is covered with a 3 mil laser-cuttable film. Different maskings available. Our standard overage is one (1) inch given for maximum yield for the laser cutting industry.

Please call for custom colors and non-stock sizes.

**RUN-TO-SIZE AVAILABLE**

## Colored Acrylic Mirror

| Item # | Thickness | Size | Color | Case Quantity | Skid Quantity |
|---|---|---|---|---|---|
| C100518M | 0.118″ | 48″ x 96.5″ | 1000 Blue | 15 | 80 |
| C100526M | 0.118″ | 48″ x 96.5″ | 2069 Blue | 15 | 80 |
| C100941M | 0.118″ | 48″ x 96.5″ | 2424 Blue | 15 | 80 |
| C100522M | 0.118″ | 48″ x 96.5″ | 1020 Purple | 15 | 80 |
| C100431M | 0.118″ | 48″ x 96.5″ | 1050 Gray | 15 | 80 |
| C100083M | 0.118″ | 48″ x 96.5″ | 2064 Gray | 15 | 80 |
| C100515M | 0.118″ | 48″ x 96.5″ | 1119 Orange | 15 | 80 |
| C100938M | 0.118″ | 48″ x 96.5″ | 1300 Gold | 15 | 80 |
| C100494M | 0.118″ | 48″ x 96.5″ | 1310 Red | 15 | 80 |
| C100529M | 0.118″ | 48″ x 96.5″ | 1400 Red | 15 | 80 |
| C100527M | 0.118″ | 48″ x 96.5″ | 2423 Red | 15 | 80 |
| C100046M | 0.118″ | 48″ x 96.5″ | 2404 Bronze | 15 | 80 |
| C100516M | 0.118″ | 48″ x 96.5″ | 1600 Bronze | 15 | 80 |
| C100947M | 0.118″ | 48″ x 96.5″ | 4674 Green | 15 | 80 |
| C100525M | 0.118″ | 48″ x 96.5″ | 2414 Green | 15 | 80 |
| C100521M | 0.118″ | 48″ x 96.5″ | 1450 Pink | 15 | 80 |
| C100495M | 0.118″ | 48″ x 96.5″ | 2120 Teal | 15 | 80 |
| C100514M | 0.118″ | 48″ x 96.5″ | 2208 Yellow | 15 | 80 |
| C100523M | 0.118″ | 48″ x 96.5″ | 2422 Amber | 15 | 80 |
| C101118M | 0.118″ | 48″ x 96.5″ | 1350 Rose Gold | 15 | 80 |

**0.236″ thickness available in 2404 Bronze and 2064 Gray**

# FABBACK® Mirror

## PETG MIRROR SHEET

FABBACK PETG Mirror offers versatile fabrication properties with good impact strength, good design flexibility and speed of fabrication. This product is available in 0.040″- 0.118″, in 48″ x 96″ sheet. The thinner gauge sheet is ideal for the fabrication of children's toys, cosmetic uses, and office supplies. FABBACK PETG Mirror is supplied in 1-sided polyfilm or papermask 1 or 2 sides.
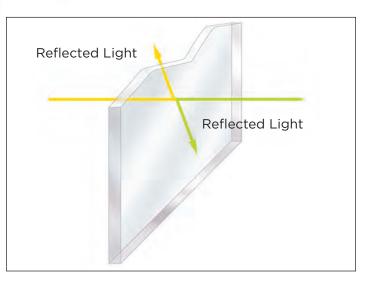
Call for quotation, availability and delivery information.

| Typical Properties* | | | |
|---|---|---|---|
| Property | Test Method | Units | Value |
| **PHYSICAL** | | | |
| Specific Gravity | ASTM D792 | - | 1.27 |
| **MECHANICAL** | | | |
| Gardner Impact Strength | ASTM D3029 or D5420 | in/lbs. | No break, 300 |
| Flexural Strength | D790 | psi | 11,240 |
| Flexural Modulus | D790 | psi | 309,000 |
| Tensile Strength | D638 | psi | 6,990 |
| Tensile Modulus | D638 | psi | 301,000 |
| Elongation – 0.125 in. thick | D638 | % | 75 |
| **THERMAL** | | | |
| Heat Distortion Temp. @ 264 psi | ASTM D648 | °F | 145 |
| Heat Distortion Temp. @ 66 psi | ASTM D648 | °F | 164 |
| Vicat Softening Point | ASTM D1525 | °F | 180 |
| Coefficient of Thermal Expansion | ASTM D696 | in/(in/°F) | 0.00003 |
| **ELECTRICAL** | | | |
| Dielectric Constant @ 100Hz | ASTM D150 | _ | 3.46 |
| Dielectric Strength | ASTM D149 | volts/mil | 420 |
| Volume Resistivity | ASTM D257 | ohms/cm | $6.0 \times 10^{15}$ |

## FIRST SURFACE (2-Sided) MIRROR SHEET

FABBACK "First Surface" (two-sided mirror) consists of an opaque film of aluminum, protected by a tough clear coating. Light incident from either direction is reflected. "First Surface" is often used in retail display and special lighting. The dual surface reflection property is ideal for those applications where the back side of the mirror will remain exposed, or where a reflection in both directions is desired. It is available in acrylic or polycarbonate and with a color option.

Thicknesses of 0.118″ and 0.236″ are offered.

**For custom and non-stock sizes and thicknesses – Contact Customer Service**


Reflected Light
Reflected Light

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| C100069M | 0.118″ | 48″ x 96″ | Film First Surface Mirror | 80/pallet |

# FABBACK® Mirror

## MARINE GRADE ACRYLIC MIRROR SHEET

Marine Grade is a high quality, premium grade of FABBACK acrylic mirror sheet. The sheets are double inspected throughout the manufacturing process to ensure maximum quality for use in boat/yacht interiors.
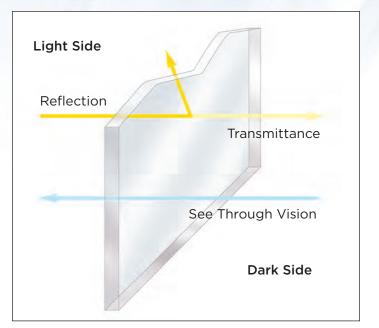
Available in 0.118″ and 0.236″ thicknesses in a 48″ x 96″ sheet size with a protective papermasking on 2 sides. Scratch-resistant coating, custom sizes, thickness and alternative protective masking options available.



## FABBACK SEE-THRU MIRROR SHEET

"See-thru" or 'Two-Way" mirror has a semi-transparent aluminum film deposited on the substrate that allows a percentage of incident light to pass through, while reflecting the remainder. From the illuminated side, it's a mirror; from the darkened side it's transparent. This material is used in monitoring/surveillance, infinity lighting, multiple imaging and advertising applications.

Available in 0.118″ and 0.236″ thicknesses in a 48″ x 96″ sheet size. See-Thru mirror is available in acrylic or polycarbonate with custom color, size and thickness options available.



Light Side

Reflection

Transmittance

See Through Vision

Dark Side

### FABBACK See-Thru Acrylic Mirror

| Item # | Thickness | Description | | Quantity |
|---|---|---|---|---|
| C100071M | 0.118″ | 48″ x 96″ | Film | 80/pallet |
| C200032M | 0.236″ | 48″ x 96″ | Film | 40/pallet |

# OPTIX® Lighting Panels
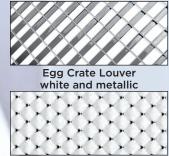
## ACRYLIC LIGHTING PANELS

**Egg Crate Louver (white and metallic)**

**Prisma-Square**

**Prismatic (clear and white)**

**Cracked Ice (clear and white)**

Egg Crate Louver
white and metallic

Prisma-Square

Prismatic clear and white

Cracked Ice clear and white

### OPTIX Acrylic Lighting Panels

| Item # | Description | | Sq. Ft. | Quantity |
|---|---|---|---|---|
| 1A00702A | 23.75″ x 47.75″ | Prisma Square Clear | 7.87 | 20/Pack |
| 1A20083A | 23.75″ x 47.75″ | Prismatic Clear | 7.87 | 20/Pack |
| 1A20084A | 23.75″ x 47.75″ | Prismatic White | 7.87 | 20/Pack |
| 1A30020A | 23.75″ x 23.75″ | Prismatic Clear | 3.91 | 25/Pack |
| 1420083A | 23.75″ x 47.75″ | Cracked Ice Clear | 7.87 | 20/Pack |
| 1420084A | 23.75″ x 47.75″ | Cracked Ice White | 7.87 | 20/Pack |
| 1405060A | 36″ x 60″ | Cracked Ice Clear | 15 | 10/Pack |
| 1405061A | 36″ x 60″ | Cracked Ice White | 15 | 10/Pack |
| 1435020A | 23.75″ x 23.75″ | Cracked Ice Clear | 3.91 | 25/Pack |

### Micro-Prism Acrylic Lighting Panels

| Item # | Description | | Sq. Ft. | Quantity |
|---|---|---|---|---|
| 1A90000A | 23.75″ x 47.75″ | Micro Prism White Frost Glaze | 7.87 | 20/Pack |
| 1A90001A | 23.75″ x 47.75″ | Micro Prism Clear Frost Glaze | 7.87 | 20/Pack |
| 671003-1-25 | 23.75″ x 47.75″ | Micro Prism Clear | 7.87 | 25/Pack |

### Egg Crate Louvers

| Item # | Description | | Sq. Ft. | Quantity |
|---|---|---|---|---|
| 1199232A | 1/2″ x 1/2″ x 3/8″, 23.75″ x 47.75″ | Egg Crate White | 7.87 | 5/Pack |
| 1199241A | 1/2″ x 1/2″ x 1/2″, 23.75″ x 47.75″ | Egg Crate White | 7.87 | 10/Pack |
| 1199238A | 1/2″ x 1/2″ x 3/8″, 23.75″ x 47.75″ | Egg Crate Metallic | 7.87 | 5/Pack |
| 1199233A | 1/2″ x 1/2″ x 3/8″, 23.75″ x 47.75″ | Egg Crate White | 7.87 | 15/Pack |
| 1199234A | 1/2″ x 1/2″ x 3/8″, 23.75″ x 47.75″ | Egg Crate Metallic | 7.87 | 15/Pack |

# DURALENS®

## Premium Grade Acrylic Lighting Panels

| Item # | Description | | Sq. Ft. | Quantity |
|---|---|---|---|---|
| 1430083A * | 23.75″ x 47.75″ | Cracked Ice Clear | 7.87 | 20/Pack |
| 1430084A * | 23.75″ x 47.75″ | Cracked Ice White | 7.87 | 20/Pack |
| 1A30083A * | 23.75″ x 47.75″ | Prismatic Clear | 7.87 | 20/Pack |
| 1A00703A * | 23.75″ x 47.75″ | Prisma Square Clear | 7.87 | 20/Pack |

The above DURALENS lighting panels are covered by a 10-year limited replacement warranty against breakage.
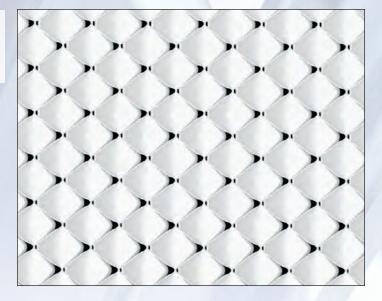Visit www.plaskolite.com for warranty details.

* Denotes Consumer/Retail Item

# OPTIX®
# Patterned Lighting Acrylic

**PATTERNED LIGHTING SHEET**

Pattern 12 (PL-21) Prismatic patterned lighting sheet is available in Clear, White, Frost and Silvertint.

## Acrylic Prismatic Lighting Sheet (3/16″ Square Base Negative Conical Pattern)

| Item # | Thickness | Description | | Sq. Ft. | Quantity |
|---|---|---|---|---|---|
| 225852-1 | 0.095″ | 22.50″ x 46.50″ | Pattern 12 (PL-21)/Prismatic Clear | 7.27 | 20/Pack |
| 225196-1 | 0.095″ | 22.50″ x 46.50″ | Pattern 12 (PL-21)/Prismatic Clear | 7.27 | 300/Bulk |
| 225181-1 | 0.095″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 300/Bulk |
| 225114-1 | 0.095″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 20/Pack |
| 225604-1 | 0.095″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Frost | 7.87 | 300/Bulk |
| 225433-1 | 0.095″ | 50″ x 51″ | Pattern 12 (PL-21)/Prismatic Clear | 17.72 | 250/Bulk |
| 225686-1 | 0.095″ | 50″ x 100″ | Pattern 12 (PL-21)/Prismatic Clear | 34.75 | 100/Bulk |
| 225218-1 | 0.110″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 300/Bulk |
| 225252-1 | 0.110″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 20/Pack |
| 225122-1 | 0.110″ | 22.50″ x 46.50″ | Pattern 12 (PL-21)/Prismatic Clear | 7.27 | 20/Pack |
| 225047-1 | 0.110″ | 50″ x 51″ | Pattern 12 (PL-21)/Prismatic Clear | 17.72 | 300/Bulk |
| 225687-1 | 0.110″ | 50″ x 100″ | Pattern 12 (PL-21)/Prismatic Clear | 34.75 | 100/Bulk |
| 225342-1 | 0.125″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 250/Bulk |
| 225391-1 | 0.125″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 25/Pack |
| 1A2347PA | 0.125″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 15/Pack |
| 225734-1 | 0.125″ | 22.50″ x 46.50″ | Pattern 12 (PL-21)/Prismatic Clear | 7.27 | 25/Pack |
| 225354-1 | 0.125″ | 50″ x 51″ | Pattern 12 (PL-21)/Prismatic Clear | 17.72 | 250/Bulk |
| 1A48484A | 0.125″ | 48″ x 96″ | Pattern 12 (PL-21)/Prismatic Clear | 32 | 50/Bulk |
| 1A48485A | 0.125″ | 48″ x 96″ | Pattern 12 (PL-21)/Prismatic Clear | 32 | 5/Pack |
| 225597-1 | 0.125″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Frost | 7.87 | 250/Bulk |
| 225688-1 | 0.125″ | 50″ x 100″ | Pattern 12 (PL-21)/Prismatic Clear | 34.75 | 80/Bulk |
| 225690-1 | 0.125″ | 50″ x 100″ | Pattern 12 (PL-21)/Prismatic White | 34.75 | 80/Bulk |
| 225375-1 | 0.125″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Silvertint | 7.87 | 25/Pack |
| 225396-1 | 0.125″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear - Min. | 7.87 | 200/Bulk |
| 227001-1 | 0.156″ | 23.75″ x 47.75″ | Pattern 12 (PL-21)/Prismatic Clear | 7.87 | 200/Bulk |
| 225430-1 | 0.187″ | 50″ x 51″ | Pattern 12 (PL-21)/Prismatic Clear | 17.72 | 150/Bulk |

## OPTIX.LED PXT SERIES — LED Diffusion

### LED DIFFUSION SHEET

» Matte textured surface on 2 sides

» Light transmission consistent throughout thickness range

» Wide range of standard grades to meet various design specifications

» Optimized for high light transmission while maintaining excellent diffusion

» Superior hiding power to eliminate any LED "hot-spots"

» All grades listed are available in polymer format for extrusion purposes

» Custom gauges and sizes available

| Product | Color | Light Transmission* | Diffusion | Half Angle* | Available Thickness |
|---|---|---|---|---|---|
| OPTIX LED PXT-Clear | Clear | 92% | Minimal | 3 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-L | Colorless | 92% | Moderate | 20 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-M | Colorless | 85% | Mod-High | 30 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-H | Colorless | 78% | High | 35 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-U | Colorless | 72% | Very High | 45 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-HC | White | 80% | High | 25 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-UC | White | 70% | Very High | 40 | 0.060″, 0.080″, 0.118″ |
| OPTIX LED PXT-UC+ | White | 60% | Very High | 50 | 0.060″, 0.080″, 0.118″ |

*Light transmission and half angle readings based on 0.080″ (2mm) thick samples.
Actual light transmission and half angle may vary, depending on profile thickness, geometry and optical patterns.

### PXT-CLEAR

| Item # | Thickness | Size |
|---|---|---|
| PXT060A | 0.060″ | 48″ X 96″ |
| PXT031A | 0.080″ | 48″ X 96″ |
| PXT016A | 0.118″ | 48″ X 96″ |

### PXT-L

| Item # | Thickness | Size |
|---|---|---|
| PXT000A | 0.060″ | 48″ X 96″ |
| PXT001A | 0.080″ | 48″ X 96″ |
| PXT017A | 0.118″ | 48″ X 96″ |

### PXT-M

| Item # | Thickness | Size |
|---|---|---|
| PXT010A | 0.060″ | 48″ X 96″ |
| PXT011A | 0.080″ | 48″ X 96″ |
| PXT012A | 0.118″ | 48″ X 96″ |

### PXT-H

| Item # | Thickness | Size |
|---|---|---|
| PXT004A | 0.060″ | 48″ X 96″ |
| PXT005A | 0.118″ | 48″ X 96″ |
| PXT006A | 0.080″ | 48″ X 96″ |

### PXT-U

| Item # | Thickness | Size |
|---|---|---|
| PXT033A | 0.060″ | 48″ X 96″ |
| PXT018A | 0.080″ | 48″ X 96″ |
| PXT019A | 0.118″ | 48″ X 96″ |

### PXT-HC

| Item # | Thickness | Size |
|---|---|---|
| PXT007A | 0.060″ | 48″ X 96″ |
| PXT008A | 0.080″ | 48″ X 96″ |
| PXT009A | 0.118″ | 48″ X 96″ |

### PXT-UC

| Item # | Thickness | Size |
|---|---|---|
| PXT020A | 0.060″ | 48″ X 96″ |
| PXT002A | 0.080″ | 48″ X 96″ |
| PXT003A | 0.118″ | 48″ X 96″ |

### PXT-UC+

| Item # | Thickness | Size |
|---|---|---|
| PXT014A | 0.060″ | 48″ X 96″ |
| PXT013A | 0.080″ | 48″ X 96″ |
| PXT015A | 0.118″ | 48″ X 96″ |

# VIVAK® PETG Thermoplastic

## PETG THERMOPLASTIC SHEET

VIVAK sheet is a transparent thermoplastic sheet. Among its advantages, this sheet is made from PETG resin that is NSF listed and conforms to FDA food contact regulations. VIVAK sheet offers excellent impact strength and is a cost effective thermoplastic for the Point of Purchase (POP) industry. It offers deep draws and precise molded-in details without sacrificing structural integrity. VIVAK sheet can be bonded or fastened with adhesives, ultrasonic welding or rivets. In addition, VIVAK sheet is easily decorated by painting, silk screening, or hot stamping. VIVAK sheet is well suited for a variety of POP displays and interior signage.

## APPLICATIONS INCLUDE:

Greeting card displays, revolving merchandise racks, indoor signs, POP displays, menu boards, photo frames, and slat wall inventory displays

| Item # | Thickness | Description | Quantity |
|---|---|---|---|
| PE20025A | 0.020" | 48˝ x 96˝  Clear w/ Joggable Film | 240/Skid |
| PE20027A | 0.030" | 48˝ x 96˝  Clear w/ Joggable Film | 170/Skid |
| PE20005A | 0.040" | 48˝ x 96˝  Clear w/ Joggable Film | 120/Skid |
| PE20006A | 0.060" | 48˝ x 96˝  Clear w/ Joggable Film | 160/Skid |
| PE50008A | 0.060" | 48˝ x 96˝  Satin w/ Clear Hi-Tak/ Joggable Film | 120/Skid |
| PE50031A | 0.060" | 48˝ x 96˝  Satin w/ Clear Hi Tak/ Joggable Film | 10/Pk |
| PE22000A | 0.060" | 60˝ x 96˝  Clear w/ Joggable Film | 64/Skid |
| PE20007A | 0.080" | 48˝ x 96˝  Clear w/ Joggable Film | 120/Skid |
| PE20009A | 0.100" | 48˝ x 96˝  Clear w/ Joggable Film | 100/Skid |
| PE20010A | 0.118" | 48˝ x 96˝  Clear w/ Joggable Film | 80/Skid |
| PE22002A | 0.118" | 60˝ x 96˝  Clear w/ Joggable Film | 32/Skid |
| PE20011A | 0.177" | 48˝ x 96˝  Clear w/ Joggable Film | 54/Skid |
| PE22003A | 0.177" | 60˝ x 96˝  Clear w/ Joggable Film | 22/Skid |
| PE20019A | 0.220" | 48˝ x 96˝  Clear w/ Joggable Film | 45/Skid |
| PE20012A | 0.236" | 48˝ x 96˝  Clear w/ Joggable Film | 20/Skid |
| PE20013A | 0.375" | 48˝ x 96˝  Clear w/ Joggable Film | 13/Skid |
| PE21092A | 0.500" | 48˝ x 96˝  Clear w/ MVM White Film | 15/Skid |
| PE20033A | 0.020" | 48˝ x 72˝  Clear w/ Joggable Film | 240/Skid |
| PE20034A | 0.030" | 48˝ x 72˝  Clear w/ Joggable Film | 170/Skid |
| PE20035A | 0.040" | 48˝ x 72˝  Clear w/ Joggable Film | 120/Skid |
| PE20039A | 0.060" | 48˝ x 72˝  Clear w/ Joggable Film | 160/Skid |

# A·B·S Thermoplastic

## ABS THERMOPLASTIC SHEET

ABS Thermoplastic sheet is the ideal combination of durability, formability and strength. Utility grade ABS (Acrylonitrile Butadiene Styrene) sheet is extruded with the highest quality regrind and 100% virgin cap. ABS is stocked with one side Haircell and the other smooth, with gauges available from 0.060″ - 0.236″. It has outstanding formability, high impact strength, and durability.

Custom color matching and sizes are available.

» Outstanding molding and fabrication

» Rigid and creep resistant

» Run to size - 3000 pound minimum

## APPLICATIONS INCLUDE:

Automotive, dunnage, containers

## ABS

| Item # | Thickness | Description | | Bulk Quantity |
|---|---|---|---|---|
| ABS2103C | 0.060″ | 48″ x 96″ | White, Smooth/Haircell | 125 |
| ABS9900A | 0.060″ | 48″ x 96″ | Black, Smooth/Haircell | 125 |
| ABS2104C | 0.093″ | 48″ x 96″ | White, Smooth/Haircell | 75 |
| ABS9901A | 0.093″ | 48″ x 96″ | Black, Smooth/Haircell | 75 |
| ABS2105C | 0.118″ | 48″ x 96″ | White, Smooth/Haircell | 60 |
| ABS9902A | 0.118″ | 48″ x 96″ | Black, Smooth/Haircell | 60 |
| ABS2106C | 0.177″ | 48″ x 96″ | White, Smooth/Haircell | 40 |
| ABS9903A | 0.177″ | 48″ x 96″ | Black, Smooth/Haircell | 40 |
| ABS2107C | 0.236″ | 48″ x 96″ | White, Smooth/Haircell | 30 |
| ABS9904A | 0.236″ | 48″ x 96″ | Black, Smooth/Haircell | 30 |

**RUN-TO-SIZE AVAILABLE**

# TUFFAK®

## Extruded Polycarbonate Properties

TUFFAK extruded sheet is a polished surface, UV stabilized, transparent polycarbonate product. It features outstanding impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate.

## Typical Properties*

| Property | Test Method | Units | Values |
|---|---|---|---|
| **PHYSICAL** | | | |
| Specific Gravity | ASTM D792 | – | 1.2 |
| Refractive Index | ASTM D542 | – | 1.586 |
| Light Transmission, Clear @ 0.118″ | ASTM D1003 | % | 86 |
| Light Transmission, I30 Gray @ 0.118″ | ASTM D1003 | % | 50 |
| Light Transmission, K09 Bronze @ 0.118″ | ASTM D1003 | % | 50 |
| Light Transmission, I35 Dark Gray @ 0.118″ | ASTM D1003 | % | 18 |
| Water Absorption, 24 hours | ASTM D570 | % | 0.15 |
| Poisson's Ratio | ASTM E132 | – | 0.38 |
| **MECHANICAL**** | | | |
| Tensile Strength, Ultimate | ASTM D638 | psi | 9,500 |
| Tensile Strength, Yield | ASTM D638 | psi | 9,000 |
| Tensile Modulus | ASTM D638 | psi | 340,000 |
| Elongation | ASTM D638 | % | 110 |
| Flexural Strength | ASTM D790 | psi | 13,500 |
| Flexural Modulus | ASTM D790 | psi | 345,000 |
| Compressive Strength | ASTM D695 | psi | 12,500 |
| Compressive Modulus | ASTM D695 | psi | 345,000 |
| Izod Impact Strength, Notched @ 0.125″ | ASTM D256 | ft·lbs/in | 18 |
| Izod Impact Strength, Unnotched @ 0.125″ | ASTM D256 | ft·lbs/in | 60 (no break) |
| Instrumented Impact @ 0.125″ | ASTM D3763 | ft·lbs | 47 |
| Shear Strength, Ultimate | ASTM D732 | psi | 10,000 |
| Shear Strength, Yield | ASTM D732 | psi | 6,000 |
| Shear Modulus | ASTM D732 | psi | 114,000 |
| Rockwell Hardness | ASTM D785 | – | M70 / R118 |
| **THERMAL** | | | |
| Coefficient of Thermal Expansion | ASTM D696 | in/in/°F | $3.75 \times 10^{-5}$ |
| Coefficient of Thermal Conductivity | ASTM C177 | BTU·in/hr·ft2·°F | 1.35 |
| Heat Deflection Temperature @ 264 psi | ASTM D648 | °F | 270 |
| Heat Deflection Temperature @ 66 psi | ASTM D648 | °F | 280 |
| Brittleness Temperature | ASTM D746 | °F | -200 |
| Shading Coefficient, clear @ 0.236″ | NFRC 100-2010 | – | 0.97 |
| Shading Coefficient, Gray or Bronze @ 0.236″ | NFRC 100-2010 | – | 0.77 |
| U factor @ 0.236″ (summer, winter) | NFRC 100-2010 | BTU/hr·ft2·°F | 0.85, 0.92 |
| U factor @ 0.375″ (summer, winter) | NFRC 100-2010 | BTU/hr·ft2·°F | 0.78, 0.85 |
| **ELECTRICAL** | | | |
| Dielectric Constant @ 10 Hz | ASTM D150 | – | 2.96 |
| Dielectric Constant @ 60 Hz | ASTM D150 | – | 3.17 |
| Volume Resistivity | ASTM D257 | Ohm·cm | $8.2 \times 10^{16}$ |
| Dissipation Factor @ 60 Hz | ASTM D150 | – | 0.0009 |
| Arc Resistance | | | |
| Stainless Steel Strip electrode | ASTM D495 | Seconds | 10 |
| Tungsten Electrodes | ASTM D495 | Seconds | 120 |
| Dielectric Strength, in air @ 0.125″ | ASTM D149 | V/mil | 380 |
| **FLAMMABILITY** | | | |
| Horizontal Burn, AEB | ASTM D635 | in | <1 |
| Ignition Temperature, Self | ASTM D1929 | °F | 1022 |
| Ignition Temperature, Flash | ASTM D1929 | °F | 824 |
| Flame Class @ 0.060″ | UL 94 | – | HB |
| @ 0.394″ | UL 94 | – | V-0 |

*Typical properties are not intended for specification purposes.
**Some properties characterized using non-textured sheet.

# TUFFAK®
## Run-To-Size Program

## PLASKOLITE OFFERS THE FLEXIBILITY OF RUNNING CUSTOM SHEET IN THE SIZES YOU AND YOUR CUSTOMERS NEED

Run-to-Size sheet solutions from PLASKOLITE are the right way to think about your next order. Think smaller sheet sizes to lower cost by buying in the length and width you need. Think greener by allowing PLASKOLITE
to run less material and create less scrap for you. Run-to-Size also means a more reliable and predictable price with 2-week lead times.

**TUFFAK GP & TUFFAK SL Clear –** 1000 LB minimum

**TUFFAK GP & TUFFAK SL Standard Colors\* -** 3000 LB minimum

» *GP Standard Colors - I30- Gray, I35- Dark Gray, K09- Bronze, H35- Green , L10 - Black

» *SL Standard Colors - B54, B59 – White

» One time custom colors – 20,000 LB minimum

### Run-to-Size Parts meet:

» Approved Material List

» Gauge is 0.060″ – 0.236″

» Within 6″ of Standard Web Width

» Standard Web Widths are 36″, 48″, 60″, 72″, and 96″

**RUN-to-SIZE IS AVAILABLE IN OPTIX® ACRYLIC SHEET – CONTACT INSIDE SALES FOR DETAILS**

**Think about Run-to-Size from PLASKOLITE when it's time to place your next order!**

**CALL CUSTOMER SERVICE FOR DETAILS AND MINIMUMS
1.800.848.9124**

# TUFFAK®-GP General Purpose

## GENERAL PURPOSE POLYCARBONATE SHEET

TUFFAK GP sheet is a polished surface, UV stabilized, transparent polycarbonate product. It features outstanding impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. TUFFAK GP sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Industrial glazing, machine guards, structural parts, thermoformed and fabricated components

### Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.
» Weight per Half Pallet: 1,000 lbs.

### Masking

Standard Masking Configurations
Gauges: 0.030″ - 0.236″, Makro Mask, Two (2) Sides
0.375″ - 0.500″, Paper Masking, Two (2) Sides
Additional masking available – Price Per Side

### Case Packaging (030 - 040 clear/ 060 - 500 colors only)

| Gauge | 0.030 | 0.040 | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Sheet Size 48 x 96 | 50 | 37 | - | - | - | 13 | 8 | 6 | 6 | 4 | 3 |

### Pallet Packaging

| | Gauge | 0.030 | 0.040 | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sheet Size | 48 x 96 | - | - | - | - | - | 85 | 60 | 45 | 45 | 25 | 20 |
| | 60 x 96 | - | - | - | - | - | 70 | 50 | 35 | 36 | 22 | 16 |
| | 60 x 120 | - | - | - | - | - | | 36 | 28 | - | 17 | - |
| | 72 x 96 | - | - | - | - | - | 55 | 40 | 30 | 30 | 18 | - |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Half Pallets

| | Gauge | 0.030 | 0.040 | 0.060 | 0.080 | 0.093 | 0.118 | 0.156 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| Sheet Size | 48 x 96 | - | - | 83 | 63 | 55 | - | - | - | - | - | - | - |
| | 48 x 120 | - | - | - | - | - | 35 | - | 23 | 18 | - | 15 | 8 |
| | 60 x 96 | - | - | - | - | - | - | - | - | - | - | - | 8 |
| | 60 x 120 | - | - | - | - | - | 27 | - | - | - | - | - | - |
| | 72 x 96 | - | - | - | - | - | - | - | - | - | - | 9 | 7 |
| | 72 x 120 | - | - | - | - | - | - | - | - | 13 | - | - | - |

### Standard Sizes

Lengths: 24″, 96″ (Gauges: 0.030″ - 0.040″)
Lengths: 96″, 120″, 144″ (Gauges: 0.060″ - 0.500″)
Widths: 48″ (Gauges: 0.030″ - 0.060″)
Widths: 48″, 60″, 72″ (Gauges: 0.080″ - 0.093″)
Widths: 48″, 60″, 72″, 96″ (Gauges: 0.118″ - 0.500″)

### Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear (Gauges: All)
K09 - Bronze (Gauges: 0.118″ - 0.375″)
130 - Gray, Light (Gauges: 0.118″ - 0.500″)
135 - Gray, Dark (Gauges: 0.118″, 0.236″)
Ll0 - Black (Gauges: 0.060″, 0.118″, 0.177″, 0.236″)
B59 - White (Gauges: 0.060″)
B54 - White non-stock
H35 - Green non-stock

# TUFFAK-*GP-V* Flame Retardant

## GENERAL PURPOSE / FLAME RETARDANT POLYCARBONATE SHEET
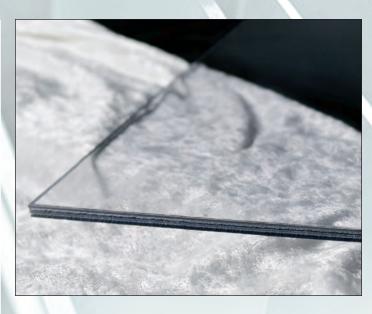
TUFFAK GP-V sheet is a polished surface, UV stabilized, transparent polycarbonate product. GP-V is a flame retardant grade with a UL 94 V-2 rating at 0.060″ and greater, then improves to V-0 rating at 0.220″ and greater. Other properties include outstanding impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. TUFFAK GP-V sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Industrial parts and components of electrical devices requiring UL 94 V-rated performance, thermoformed and fabricated parts

## Packaging

» Weight per Case: Varies per gauge

## Masking

Standard Masking Configurations

**Gauges:** 0.030″ - 0.236″, Makro Mask, Two (2) Sides
0.375″ - 0.500″, Paper Masking, Two (2) Sides

Additional masking available – Price Per Side

| Packaging | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gauge | 0.030 | 0.040 | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
| Sheet Size  48 x 96 | - | - | - | - | - | - | - | - | 45 | - | - |

## Standard Sizes

Lengths: 24″, 96″ (Gauges: 0.030″ - 0.040″)
Lengths: 96″, 120″, 144″ (Gauges: 0.060″ - 0.500″)
Widths: 48″ (Gauges: 0.030″ - 0.060″)
Widths: 48″, 60″, 72″ (Gauges: 0.080″ - 0.093″)
Widths: 48″, 60″, 72″, 96″ (Gauges: 0.118″ - 0.500″)

## Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

0A00 - Clear (Gauges: All)
K09 - Bronze (Gauges: 0.118″ - 0.375″)
130 - Gray, Light (Gauges: 0.118″ - 0.500″)
135 - Gray, Dark (Gauges: 0.118″, 0.236″)
Ll0 - Black (Gauges: 0.060″, 0.118″, 0.177″, 0.236″)
B59 - White (Gauges: 0.060″)
B54 - White non-stock
H35 - Green non-stock

## Textures, Available

MA - Matte
SA - Satin
SH - Haircell, Non-gloss
80 - Pebble/Smooth
89 - Pebble/Grain
90 - Grain/Smooth

# TUFFAK®-*GP* Textured

## MATTE TEXTURED POLYCARBONATE SHEET

TUFFAK GP Matte sheet is a translucent, UV stabilized, polycarbonate product with a matte textured surface on one side. This unique matte texture obscures vision and reduces glare. The product features outstanding impact strength, superior dimensional stability, and high temperature resistance. TUFFAK GP Matte sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Industrial glazing, privacy glazing, thermoformed and fabricated translucent components, signs, displays, lighting covers

## PEBBLE TEXTURED POLYCARBONATE SHEET

TUFFAK GP Pebble sheet is a translucent, UV stabilized, polycarbonate product with a pebble texture on one side. This unique pebble texture is useful in obscuring vision, reducing glare, and helps to hide the appearance of surface scratches. The textured product features outstanding impact strength, superior dimensional stability, high temperature resistance, and flame resistance. TUFFAK GP Pebble sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Privacy glazing, decorative glazing, awnings, skylights, shower doors, factory over-glazing, lighting covers

## Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.
» Weight per Half Pallet: 1,000 lbs.

## Masking

Standard Masking Configurations

Gauges: 0.118″ - 0.236″, Makro Mask, One (1) Side – Non-texture
        Pebble texture – No masking
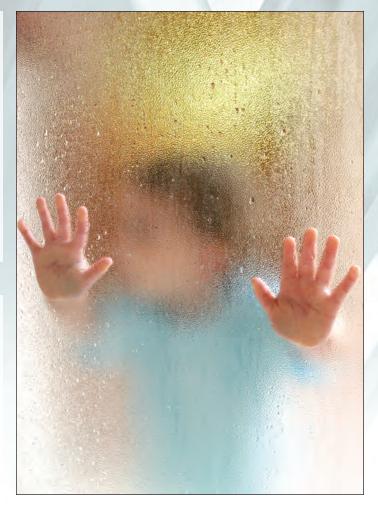
Additional masking available – Price Per Side

| Case Packaging – clear | | | | |
|---|---|---|---|---|
| Gauge | 0.118 | 0.156 | 0.177 | 0.236 |
| Sheet Size 48 x 96 | 13 | 10 | 8 | 6 |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes

Lengths: 96″, 120″, 144″ (Gauges: 0.060″ - 0.500″)
Widths: 48″ (Gauges: 0.030″ - 0.060″)

## Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

0A00 - Clear (Gauges: All)

## Textures, Available

MA – Matte 0.118″ 48″ x 96 only
80/90 - Pebble/Grain 0.236″ 48″ x 96″ only
Prismatic 0.125″ 0.156″ 0.187″ 48″ x 96″ only
SA – Satin – non-stock
SH - Haircell Non-gloss – non-stock
80 - Pebble/Smooth – non-stock
90 - Grain/Smooth – non-stock

# TUFFAK®-*GP-V* Textured / Flame Resistant

## MATTE TEXTURED POLYCARBONATE SHEET

TUFFAK GP-V Matte sheet is a translucent, UV stabilized, polycarbonate product with a matte textured surface on one side. This unique matte texture obscures vision and reduces glare. The product features outstanding impact strength, superior dimensional stability, high temperature resistance and meets a vertical burn resistance per UL 94 @ 0.213″ and thicker. TUFFAK GP-V Matte sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Industrial glazing, privacy glazing, thermoformed and fabricated translucent components, signs, displays, lighting covers

## PEBBLE TEXTURED POLYCARBONATE SHEET

TUFFAK GP-V Pebble sheet is a translucent, UV stabilized, polycarbonate product with a pebble texture on one side. This unique pebble texture is useful in obscuring vision, reducing glare, and helps to hide the appearance of surface scratches. The textured product features outstanding impact strength, superior dimensional stability, high temperature resistance and meets a vertical burn resistance per UL 94 @ 0.213″ and thicker. TUFFAK GP-V Pebble sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Privacy glazing, decorative glazing, awnings, skylights, shower doors, factory over-glazing, lighting covers

### Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.
» Weight per Half Pallet: 1,000 lbs.

### Masking

Standard Masking Configurations
Gauges: 0.118″ - 0.236″, Makro Mask, One (1) Side – Non-texture
Pebble texture – No masking
Additional masking available – Price Per Side

| Case Packaging .118 – .236 clear | | | | |
|---|---|---|---|---|
| Gauge | 0.118 | 0.156 | 0.177 | 0.236 |
| Sheet Size  48 x 96 | 13 | 10 | 8 | 6 |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96″, 120″, 144″ (Gauges: 0.060″ - 0.500″)
Widths: 48″ (Gauges: 0.030″ - 0.060″)

### Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear (Gauges: All)

### Textures, Available

MA – Matte 0.118″ 48″ x 96 only
80/90 - Pebble/Grain 0.236″ 48″ x 96″ only
Prismatic 0.125″ 0.156″ 0.187″ 48″ x 96″ only
SA – Satin – non-stock
SH - Haircell Non-gloss – non-stock
80 - Pebble/Smooth – non-stock
90 - Grain/Smooth – non-stock

# TUFFAK-GP Prismatic

## PRISMATIC TEXTURED POLYCARBONATE SHEET

TUFFAK GP Prismatic and GP-V Prismatic sheet are translucent, UV stabilized, polycarbonate products with a prismatic texture on one side. This prismatic pattern has been optimized for light diffusion and light transmission, making it an excellent choice for most conventional lighting applications. The textured product features outstanding impact strength, high temperature resistance, superior dimensional stability, and is easy to fabricate. The GP Prismatic meets a vertical burn resistance per UL 94 @ 0.213″ and thicker. TUFFAK GP Prismatic sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:
Lighting lenses and covers

### GP Prismatic Packaging
» Weight per Case: Varies per gauge
» Weight per Pallet: Varies per gauge

### Masking
Standard Masking Configuration
Gauges: All, PE-Cling One (1) Side – masked on non-textured side

| Case Packaging | | | | | | |
|---|---|---|---|---|---|---|
| Gauge | 0.110 | 0.118 | 0.125 | 0.156 | 0.177 | 0.187 |
| Sheet Size  48 x 96 | - | - | 13 | 10 | - | 8 |

| Pallet Packaging | | | | | | |
|---|---|---|---|---|---|---|
| Gauge | 0.110 | 0.118 | 0.125 | 0.156 | 0.177 | 0.187 |
| Sheet Size  48 x 96 | - | - | - | - | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 96″ (Gauges: 0.110″ - 0.187″)
Widths: 48″ (Gauges: 0.110″ - 0.187″)

### Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard
0A00 - Clear (Gauges: All)
I30 - Gray (2.000 lb Minimum)
I35 – Gray (2.000 lb Minimum)
K09 – Bronze (2.000 lb Minimum)
B59 – White (2.000 lb Minimum)
B54 – White (2.000 lb Minimum)
H35 – Green (2.000 lb Minimum)
L10 – Black (2.000 lb Minimum)

### GP-V Prismatic Packaging
» Custom, non-stock
» Weight per Case: Varies per gauge
» Weight per Pallet: Varies per gauge

### Masking
Standard Masking Configuration
Gauges: All, PE-Cling One (1) Side – masked on non-textured side

| Pallet Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.118 | 0.125 | 0.156 | 0.177 | 0.187 |
| Sheet Size  48 x 96 | - | - | - | - | - |

**These items are standard products, but not stocked items – Contact your Customer Service Representative for availability**

### Standard Sizes
Lengths: 96″ (Gauges: 0.118″ - 0.187″)
Widths: 48″ (Gauges: 0.118″ - 0.187″)

### Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard
0A00 - Clear (Gauges: All)

# TUFFAK-OP Optical Quality

## OPTICAL QUALITY POLYCARBONATE SHEET

TUFFAK OP sheet is a polished surface, UV stabilized, transparent polycarbonate product. Designed for use in applications requiring improved optical quality, it features outstanding impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. TUFFAK OP sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:
Recreational vehicle windscreens, face shields, laminates

### Packaging
» Custom orders – not a stock item

### Masking
Standard Masking Configurations
Gauges: 0.030″ - 0.236″, Makro Mask, Two (2) Sides
0.375″ - 0.500″, Paper Masking, Two (2) Sides

| Case Packaging | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Gauge | 0.040 | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
| | 48 x 96 | - | - | - | - | - | - | - | - | - | - |
| Sheet Size | 60 x 96 | - | - | - | - | - | - | - | - | - | - |
| | 72 x 96 | - | - | - | - | - | - | - | - | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 96″ (Gauges: 0.118″ - 0.500″)
Widths: 48″, 60″, 72″, 96″ (Gauges: 0.118″ - 0.500″)

### Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard
0A00 - Clear (Gauges: All)
I30 - Gray (3.000 lb Minimum)
I35 – Gray (3.000 lb Minimum)
K09 – Bronze (3.000 lb Minimum)
B59 – White (3.000 lb Minimum)
B54 – White (3.000 lb Minimum)
H35 – Green (3.000 lb Minimum)
L10 – Black (3.000 lb Minimum)

# TUFFAK-OP-V® Flame Retardant Optical

## OPTICAL QUALITY / FLAME RETARDANT POLYCARBONATE SHEET

TUFFAK OP-V sheet is a polished surface, UV stabilized, transparent polycarbonate product. OP-V is a flame retardant grade, UL 94 V-2 rating at 0.060″ and greater, and V-0 rating at 0.236″ and greater. Designed for use in applications requiring improved optical quality, it features outstanding impact strength, superior dimensional stability, high clarity high temperature resistance and meets a vertical burn resistance per UL 94 @ 0.213″ and thicker. This lightweight thermo-formable sheet is also easy to fabricate and decorate. TUFFAK OP-V sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Electrical cabinet doors and thermoformed enclosures

### Packaging

» Custom orders – not a stock item

### Masking

Standard Masking Configurations

Gauges: 0.030″ - 0.236″, Makro Mask, Two (2) Sides
0.375″ - 0.500″, Paper Masking, Two (2) Sides

| Case Packaging | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Gauge | 0.040 | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
| Sheet Size | 48 x 96 | - | - | - | - | - | - | - | - | - | - |
| | 60 x 96 | - | - | - | - | - | - | - | - | - | - |
| | 72 x 96 | - | - | - | - | - | - | - | - | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96″ (Gauges: 0.118″ - 0.500″)
Widths: 48″, 60″, 72″, 96″ (Gauges: 0.118″ - 0.500″)

### Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear (Gauges: All)
I30 - Gray (3.000 lb Minimum)
I35 – Gray (3.000 lb Minimum)
K09 – Bronze (3.000 lb Minimum)
B59 – White (3.000 lb Minimum)
B54 – White (3.000 lb Minimum)
H35 – Green (3.000 lb Minimum)
L10 – Black (3.000 lb Minimum)

# TUFFAK-*FD*  Food Contact

## FDA FOOD CONTACT COMPLIANT POLYCARBONATE SHEET

TUFFAK FD sheet is a non-UV stabilized transparent polycarbonate product which complies with FDA regulation 21 CFR § 177.1580 requirements for food contact and is produced with NSF certified resin. Ideally suited for demanding applications in food processing environments, as well as medical applications, this lightweight thermoformable sheet is also easy to fabricate and decorate. TUFFAK FD sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Food processing equipment and guards, bulk food bins, candy molds, sneeze guards, single use autoclave packaging, hospital trays, bassinets, incubators, medical device storage containers

## Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.

## Masking

Standard Masking Configurations
Gauges: 0.060″ - 0.236″, Makro Mask, Two (2) Sides
0.375″ - 0.500″, Paper Masking, Two (2) Sides

| Case Packaging | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
| Sheet Size 48 x 96 | - | - | - | - | - | - | 6 | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes

Lengths: 96″, 120″, 144″ (Gauges: 0.040″ - 0.500″)
Widths: 48″ (Gauges: 0.040″ - 0.060″)

## Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

0A00 - Clear (Gauges: All)

## Textures, Non-stock

MA - Matte
SA - Satin
HC - Haircell, Non-gloss
SH - Haircell, Gloss
80 - Pebble/Smooth
89 - Pebble/Grain
90 - Grain/Smooth

# TUFFAK-FI ®

# Flame Inhibiting

## FLAME INHIBITING POLYCARBONATE SHEET

TUFFAK FI sheet is a flame retardant, non-UV stabilized, clear polycarbonate product with a UL 94 V-0 rating at 0.060″ and UL 94 5VA rating at 0.118″ and meets FAR 25.853 (a), 1, (i) (ii) requirements at 0.060″ and thicker. It features high impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate.

## APPLICATIONS INCLUDE:

Electrical devices, equipment housings, switchgear covers, light fixtures

### Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
**Gauges:** 0.060″ - 0.125″, Plain Makro Mask, Two (2) Sides

| Case Packaging | | | |
|---|---|---|---|
| Gauge | | 0.060 | 0.125 |
| Sheet Size | 48 x 96 | 26 | 13 |
| | 60 x 96 | - | - |
| | 72 x 96 | - | - |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96″ (Gauges: 0.060,″ 0.125″)
Widths: 48″ (Gauges: 0.060,″ 0.125″)
Widths: 60″ (Gauges: 0.125″ only)

### Colors, Standard

0A00 - Clear

### Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

# TUFFAK®-*LF* Low Flammability

## LOW FLAMMABILITY POLYCARBONATE SHEET

TUFFAK LF sheet is a flame resistant, UV stabilized, transparent polycarbonate product. It features a UL 94 V-0 rating and meets FAR 25.853 (a), 1, (i) (ii) requirements at 0.080˝ and thicker. The product offers high impact strength, superior dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate.

## APPLICATIONS INCLUDE:

Electrical devices, equipment housings, switchgear covers, light fixtures

### Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
Gauges: 0.080˝ - 0.250˝, Makro Mask, Two (2) Sides
Additional Masking Available for this Product - Call for quote

| Case Packaging | | | | | | | |
|---|---|---|---|---|---|---|---|
| | Gauge | 0.080 | 0.093 | 0.118 | 0.125 | 0.187 | 0.250 |
| | 48 X 96 | 20 | 17 | 13 | 13 | 8 | - |
| Sheet Size | 60 x 96 | - | - | - | - | - | - |
| | 72 x 96 | - | - | - | - | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96˝ (Gauges: 0.080,˝ 0.250˝)
Widths: 48˝, 60˝, 72˝ (Gauges: 0.080,˝ 0.250˝)

### Tolerances

Width & Length, Standard: 0.000˝ (Min) - 0.625˝ (Max)
Width & Length, Non-standard 0.000˝ (Min) - 0.250˝ (Max)

### Colors, Standard

0A00 - Clear (Gauges: All)
I30 – Gray (3,000 lb Minimum)
K09 – Bronze (3,000 lb Minimum)

# TUFFAK-SL® / Sign Grade

## UV RESISTANT SIGN GRADE POLYCARBONATE

TUFFAK SL Sign Grade sheet is a polycarbonate product with an advanced UV resistance technology that promotes long lasting outdoor weathering performance. It features outstanding impact strength, excellent dimensional stability, high temperature resistance, and high clarity. This lightweight thermo-formable sheet is also easy to fabricate and decorate. TUFFAK SL is offered in clear, a wide range of standard sign colors, or can be custom matched to any color. The product, available in either sheet or reels, has a proven track record of outstanding performance in extreme environments and meets the UL 879 standard for electric sign components. A ten (10) year limited product warranty is available for both clear and colors for breakage resistance. Clear sheet is also covered for weathering resistance. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:
Flat and formed sign faces and channel letters

## Packaging
» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.
» Reels: Varies per gauge

## Masking
Standard Masking Configuration as priced above
Reels: Sign Masking
Sheets: Printed Macro Masking, Plain Macro Masking

| Case / Reel Packaging | | | | | | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|---|---|---|
| | | Clear | | | | White | | | | | Reels (ft) | | | | |
| Gauge | | 0.118 | 0.150 | 0.177 | 0.236 | 0.118 | 0.150 | 0.177 | 0.236 | | 0.093 | 0.118 | 0.150 | 0.177 | 0.236 |
| Sheet Size | 48 x 96 | 43 | - | - | 23 | - | - | - | - | 42" | 625 | 600 | 500 | 400 | 250 |
| | 52 x 100 | 43 | - | 30 | - | 43 | - | 30 | 23 | 55" | 625 | 600 | 500 | 400 | 250 |
| | 52 x 125 | - | - | 23 | - | 35 | - | 23 | - | 67" | 625 | 600 | 500 | 400 | 250 |
| | 75 x 100 | - | - | 20 | - | 28 | - | 20 | - | 76" | 625 | 500 | 450 | 350 | 250 |
| | 75 x 125 | - | - | 15 | - | 22 | - | 15 | - | 100" | 625 | 450 | 400 | 325 | 250 |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes
Lengths, Sheets: 100″, 125″ (Gauges: 0.093″ - 0.236″)
Lengths, Reels: Refer to chart above.
Widths, Sheets: 52″, 75″ (Gauges: 0.093″ - 0.236″)
Widths, Reels: 42″, 55″, 67″, 78″, 102″ (Gauges: 0.093″ - 0.236″)

## Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard
0A00 - Clear
D83 - Red (2283)
D93 - Red (2793)
D92 - Red (6192)
F14 - Blue (2114)
F76 - Blue (2051)
H08 - Green (2108)
H35 - Green

M37 - Yellow (2037)
C19 - Orange (2119)
L10 - Black
B59/B54 – White
K09 - Bronze
I30 – Gray
I35 – Gray, dark

# TUFFAK®-*SL Matte* / Sign Grade Matte

## UV RESISTANT / SIGN MATTE POLYCARBONATE

TUFFAK SL Sign Matte sheet is an enhanced UV resistant polycarbonate product with a matte surface texture designed to reduce glare. The product's advanced UV resistance technology promotes long lasting outdoor weathering performance. It features outstanding impact strength, excellent dimensional stability, high temperature resistance, and high clarity. This lightweight thermoformable sheet is also easy to fabricate and decorate. SL Sign Matte is offered in clear, a wide range of standard sign colors, or can be custom matched to any color. The product, available in either sheet or reels, has a proven track record of outstanding performance in extreme environments and meets the UL 879 standard for electric sign components. A ten (10) year limited product warranty is available for both clear and colors for breakage resistance. Clear sheet is also covered for weathering resistance. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Flat and formed sign faces and channel letters

### Packaging
» Weight per Pallet: 2,000 lbs.
» Reels: Varies per gauge

### Masking
Standard Masking Configuration as priced above
Reels: Hi-tack Masking – Texture side, Plain Makro Masking – smooth side
Sheets: Hi-tack Masking – Texture side, Plain Makro Masking – smooth side

### Clear Sheet / Reels Packaging

| | | Clear Sheet | | | | | | Reels | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| Gauge | | 0.118 | 0.150 | 0.177 | 0.236 | Gauge | | 0.118 | 0.150 | 0.177 | 0.236 |
| Sheet Size | 48 x 96 | - | - | - | - | Width (in.) | 55 | 450´ | - | - | - |
| | 52 x 100 | 43 | - | - | - | | 67 | - | - | - | - |
| | 52 x 125 | - | - | - | - | | 76 | - | - | - | - |
| | 75 x 100 | - | - | 20 | - | | 100 | - | - | - | - |
| | 75 x 125 | - | - | - | - | | | | | | |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths, Sheets: 100″, 125″ (Gauges: 0.118″ - 0.236″)
Lengths, Reels: Refer to chart above.
Widths, Sheets: 52″, 75″ (Gauges: 0.118″ - 0.236″)
Widths, Reels: 42″, 55″, 67″, 78″, 102″ (Gauges: 0.118″ - 0.236″)
Call for quote on Run-to-Size

### Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard
0A00 - Clear
Customer Colors – Call for quote on pricing and minimums

# TUFFAK®-SK   Skylight

## SKYLIGHT POLYCARBONATE SHEET

TUFFAK SK sheet is a non-UV enhanced sheet with a prismatic texture. It is designed for use as an interior lens of a skylight system, protected from direct sunlight exposure by a UV-resistant outer cover such as TUFFAK SK1* sheet. The prismatic texture helps to diffuse the sun's light throughout the interior space. TUFFAK SK can be drape or thermoformed for use in contoured applications such as domed skylights. In either flat or contoured geometries, it has significantly higher impact resistance compared to acrylic, impact modified acrylic, or glass. TUFFAK SK sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Interior light for skylights and barrel vaults

*Contact your Customer Service Representative for information about the SK Family of products

### Packaging
» Custom, non-stock

### Masking
Standard Masking Configurations
**Gauges, All:** PE-Cling One-side, masked on the non-textured side

| Case Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.110 | 0.118 | 0.150 | 0.177 | 0.236 |
| Sheet Size  60 x 96 | - | - | - | - | - |

### Standard Sizes
Lengths: 96" (Gauges: 0.110˝ - 0.236˝)
Widths: 48" (Gauges: 0.110˝ - 0.236˝)

### Tolerances
• Width & Length: 0.000˝ (Min) - 0.250˝ (Max)

### Colors, Standard
A00 - Clear (1.000 lbs. Minimum)

# TUFFAK®-LD  Light Diffusing

## LIGHT DIFFUSING POLYCARBONATE SHEET

TUFFAK LD sheet is a polycarbonate product designed with an advanced light diffusion technology that provides excellent light uniformity without sacrificing light transmission. The proprietary diffuser technology eliminates visible hot spots from pinpoint LED lights in typical flat and formed sign applications. LD is available in a range of standard sign colors and can be custom matched to any color. TUFFAK LD is easy to form, fabricate, and decorate, and has excellent impact strength and dimensional stability. The product's UV resistance technology assures long lasting outdoor weathering performance. TUFFAK LD is offered with a ten (10) year limited product warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Flat and formed sign faces, channel letters, and lighting fixture covers

### Packaging

» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.

### Masking

Standard Masking Configuration as priced above
Reels: PE-Cling, 2-sides
Sheets: Makro Mask, Two (2) Sides

### Masking

Additional Masking Available for this Product – Price Per Side

| Masking | Description |
|---|---|
| Paper | 5 mil adhesive backed craft paper printed |
| HTPE | 2 mil high tack PE based masking with adhesive |
| Joggable | 2 mil static cling PE based masking with matte surface finish |
| PE-Cling | 2 mil static cling PE based masking |

### White Sheet / Reels Packaging (offered sizes)

| | | White Sheet | | | | | | Reels | | | |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | Gauge | 0.118 | 0.150 | 0.177 | 0.236 | Gauge | | 0.118 | 0.150 | 0.177 | 0.236 |
| Sheet Size | 48 x 96 | - | - | - | - | Width (in.) | 42 | 450´ | 400´ | - | - |
| | 52 x 100 | 13 | 10 | - | - | | 55 | - | 400´ | - | - |
| | 52 x 125 | 13 | 10 | 8 | - | | 67 | - | 400´ | - | - |
| | 75 x 100 | - | 10 | - | - | | 78 | - | - | 300´ | - |
| | 75 x 125 | 13 | 10 | 8 | - | | 102 | - | - | 300´ | - |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths, Sheets: 100″, 125″ (Gauges: 0.093″ - 0.236″)
Lengths, Reels: Refer to chart above.
Widths, Sheets: 52″, 75″ (Gauges: 0.093″ - 0.236″)
Widths, Reels: 42″, 55″, 67″, 78″, 102″ (Gauges: 0.093″ - 0.236″)

### Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

B27/B48 – White
C59 – Orange – non stock
D96, D98, D99 – Red – non stock
F84, F85 – Blue – non stock
H87 – Green – non stock
M72 – Yellow – non stock

# TUFFAK-*uv* UV Resistant

## EXTENDED UV RESISTANT POLYCARBONATE

TUFFAK UV sheet is a transparent polycarbonate product with an advanced UV resistant technology that assures long lasting outdoor weathering performance in flat and curved glazing applications. It has higher impact resistance than acrylic and glass, and it can be cold-formed during installation. TUFFAK UV is produced with high optical quality and minimal distortion in clear, a range of standard architectural tints, or can be custom matched to any color. TUFFAK UV has a ten (10) year Limited Product Warranty against breakage, yellowing, and loss of light transmission. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Awnings, entryway canopies, skylights, barrel vaults, glazed archways, covered pedestrian walkways, and sloped, vertical, and curved glazing



## Packaging

» Custom, non-stock

## Masking

Standard Masking Configurations

**Gauges:** 0.118″ - 0.236″, stock Makro Masking, Two (2) Sides
**Gauges:** 0.375″ - 0.500″, non-stock Makro Masking, Two (2) Sides

| Half Pallet Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.118 | 0.177 | 0.236 | 0.375 | 0.500 |
| Sheet Size 48 x 96 | - | - | - | - | - |
| 60 x 96 | - | - | - | - | - |
| 72 x 96 | - | - | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

## Standard Sizes

Lengths: 96″
Widths: 48″, 60″, 72″

## Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

0A00 - Clear (Gauges: All)
K09 - Bronze (2.000 lb Minimum)
H35 - Green, Transportation (2.000 lb Minimum)
I30 - Gray, Light (2.000 lb Minimum)
I35 - Gray, Dark (2.000 lb Minimum)

## Custom

TUFFAK UV- 1 side (2,000 lb Minimum)

# TUFFAK-*AR*  Abrasion Resistant

## ABRASION-RESISTANT POLYCARBONATE SHEET

TUFFAK AR polycarbonate sheet is a one or both sides hard-coated polycarbonate product that adds higher abrasion resistance and surface hardness to polycarbonate's inherent performance benefits of impact strength and clarity. The proprietary hard-coat also provides chemical resistance and long lasting outdoor weathering performance. This product is available in clear, a range of standard tints, or can be custom matched to any color. TUFFAK AR polycarbonate sheet has a seven (7) year Limited Product Warranty against breakage, yellowing, and hazing. The terms of the warranty are available on request.

## APPLICATIONS INCLUDE:

Flat architectural glazing, machine guards, and laminates

### Packaging
» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.

### Material
Material can be supplied as AR 1 side or AR 2 sides

### Masking
Standard Masking Configurations
AR2 Gauges: 0.060″ - 0.500″, Green Paper Masking Two (2) Sides
AR1 Gauges: 0.060″ - 0.500″, Green Paper Masking One (1) Side, Clear on Other Side *Not a stock item

| Case Packaging | | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| Gauge | | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
| Sheet Size | 48 X 96 | 83 | - | - | 13 | 8 | - | 6 | 4 | 3 |
| | 60 x 96 | - | - | - | - | - | - | 6 | 4 | 3 |
| | 72 x 96 | - | - | - | - | - | - | 6 | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 96″ (Gauges: 0.060″ - 0.500″)
Widths: 48″ (Gauges: 0.060″)
Widths: 48″, 60″, 72″ (Gauges: 0.080″ - 0.500″)

### Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard AR 2-sided
0A00 - Clear (Gauges: All)
K09 - Bronze (Gauges: 0.236″) Standard, no stock
H35 - Green, Transportation (Gauges: 0.118 - 0.500″)
        Available in 0.236″ as stock only
I30 - Gray, Light (Gauges: 0.236″, 0.500″)
I35 – 2.000 lb Minimum

# TUFFAK-AR-V  Flame Retardant

## ABRASION RESISTANT / FLAME RETARDANT POLYCARBONATE SHEET

TUFFAK AR-V sheet is a one or both sides hard-coated polycarbonate product that adds higher abrasion resistance and surface hardness to polycarbonate's inherent performance benefits of impact strength and clarity. TUFFAK AR-V is a flame retardant grade with a UL 94 V-1 rating at 0.236″ and at 0.358″ and greater has a UL 94 V-0 rating. The proprietary hard-coat also provides chemical resistance and long lasting outdoor weathering performance. This product is available in clear, a range of standard tints, or can be custom matched to any color. TUFFAK AR-V sheet has a seven (7) year Limited Product Warranty against breakage, yellowing, and hazing. The terms of the warranty are available on request.

## APPLICATIONS INCLUDE:

Flat architectural glazing, machine guards, and laminates

### Packaging
» Weight per Case: Varies per gauge
» Weight per Pallet: 2,000 lbs.

### Material
Custom, non-stock
Material can be supplied as AR 1 side or AR 2 sides

### Masking
Standard Masking Configurations
AR2 Gauges: 0.060″ - 0.500″, Green Paper Masking Two (2) Sides
AR1 Gauges: 0.060″ - 0.500″, Green Paper Masking One (1) Side, Clear on Other Side *Not a stock item

| Case Packaging | | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|
| Gauge | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 | 0.375 | 0.500 |
| Sheet Size  48 X 96 | 83 | - | - | 13 | 8 | - | 6 | 4 | 3 |
| 60 x 96 | - | - | - | - | - | - | 6 | 4 | 3 |
| 72 x 96 | - | - | - | - | - | - | 6 | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 96″ (Gauges: 0.060″ - 0.500″)
Widths: 48″ (Gauges: 0.060″)
Widths: 48″, 60″, 72″ (Gauges: 0.080″ - 0.500″)

### Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard AR 2-sided
0A00 - Clear (Gauges: All)
K09 - Bronze (Gauges: .236″) Standard, no stock
H35 - Green, Transportation (Gauges: 0.118 - 0.500″)
I30 - Gray, Light (Gauges: 0.236″, 0.500″)
I35 – 2.000 lb Minimum

# TUFFAK-FC
# Formable Hardcoat

## FORMABLE HARDCOAT POLYCARBONATE

TUFFAK FC is a transparent polycarbonate sheet that has a formable coating on both sides. This abrasion resistant product can be cold formed or drape formed and is suitable for exterior applications. TUFFAK FC has excellent resistance to damage from windborne debris and has outstanding impact strength. This product complies with ANSI Z26.1 Item AS-6 which covers transportation glazing applications.

## APPLICATIONS INCLUDE:

Formed industrial applications, face shields, recreational vehicle windscreens



## Packaging

» Custom, non-stock

## Masking

Standard Masking Configurations

Gauges: 0.118″ - 0.236″, Adhesive Film Masking, Two (2) Sides

| Case Packaging | | | | |
|---|---|---|---|---|
| Gauge | 0.118 | 0.156 | 0.177 | 0.236 |
| Sheet Size    48 x 96 | - | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

## Standard Sizes

Lengths: 96″

Widths: 48″

## Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)

Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

0A00 - Clear (Gauges: All)

Custom colors and sizes – Call for minimums and lead times

# TUFFAK®-15
## Extended Abrasion Resistance

### EXTENDED ABRASION AND UV RESISTANCE

TUFFAK 15 sheet is a polycarbonate product that offers excellent impact resistance in high risk areas, weathering life, and optical quality. It provides a clear aesthetic advantage over wire glass and metal screens for security glazing and approved for use under NYS-OMH patient safety standards for 0.375″ and 0.500″. TUFFAK 15 protects against vandalism, forced entry attempts or attacks, and accidental impacts to minimize the risk of theft and glass replacement in damage prone areas. Advanced manufacturing technology has resulted in high optical quality with minimal distortion in clear and standard glazing tints. The abrasion resistant coating, applied to both sides, provides up to twice the life of prior polycarbonate sheet products. TUFFAK 15 sheet has a fifteen (15) year Limited Product Warranty against breakage, yellowing, and loss of light transmission. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Educational, psychiatric and medical facilities, retail and government buildings, and transportation centers at risk from breakage and vandalism

**Packaging**

» Weight per Case: Varies per gauge

**Masking**

Standard Masking Configurations
Gauges: 0.236″ - 0.500″, White Paper Masking, Two (2) Sides

| Case Packaging | | | | |
|---|---|---|---|---|
| Gauge | | 0.236 | 0.375 | 0.500 |
| Sheet Size | 48 x 96 | 6 | - | - |
| | 60 x 96 | - | - | - |
| | 72 x 96 | - | NA | NA |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

**Standard Sizes**

Lengths: 96″
Widths: 48″, 60″, 72″

**Tolerances**

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

**Colors, Standard AR 2-sided**

0A00 - Clear (Gauges: All)
K09 - Bronze (Gauges: 0.236″) Standard, no stock
H35 - Green, Transportation (Gauges: 0.118 - 0.500″)
I30 - Gray, Light (Gauges: 0.236″, 0.500″)
I35 – 2.000 lb Minimum

# HYGARD®
**SECURITY LAMINATES**

# CG375 Containment Grade

## CONTAINMENT GRADE POLYCARBONATE

HYGARD CG375 containment grade sheet is a 0.375″, 2-ply polycarbonate laminate that is tested to ASTM F 1915, ASTM F 1233, H.P. White TP 0500 for forced entry and EN ISO 23125 (C[1]) for machine tools/turning machines. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force impacts, an advantage in maintaining visibility of a threat during an attack. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical attack, and graffiti. HYGARD CG375 sheet has a seven (7) year Limited Product Warranty against coating failure, delamination, yellowing, and hazing. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing centers or facilities, turning machines

**Packaging**
» Weight per Case: Varies per gauge

**Masking**
Standard Masking Configurations
**Gauges:** All – Heavy High-tack PE Masking, two (2) sides

| Case Packaging | | | | | | | |
|---|---|---|---|---|---|---|---|
| Gauge | Sheet | | | | | | |
| | 38 x 78 | 38 x 96 | 48 x 60 | 48 x 72 | 48 x 96 | 60 X 72 | 60 x 96 |
| CG375 | 1 | - | - | 1 | 1 | - | - |
| CG500 | - | 1 | - | 1 | 1 | - | 1 |
| CG750 | - | 1 | - | - | 1 | - | - |
| BR750 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| BR1000 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| BR1250 | 1 | 1 | 1 | 1 | 1 | 1 | 1 |
| MS1250 | | | | | | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

**Standard Sizes**
See chart above.
MS1250, non-stock standard lead time. Call for quote.

**Tolerances**
Width & Length: 0.000″ (Minimum)  - 0.625″ (Maximum)

**Colors, Standard AR 2-sided**
0A00 - Clear (Gauges: All)
I30 – Gray (1.000 lb Minimum)
K09 – Bronze (2.000 lb Minimum)
H35 – Green (2.000 lb Minimum)

# HYGARD® SECURITY LAMINATES

## CG500 Containment Grade

**CONTAINMENT GRADE POLYCARBONATE**
HYGARD CG500 containment grade sheet is a 0.500″, 3-ply polycarbonate laminate that is tested to ASTM F 1233 Class 1.5 for contraband passage and Class 3.2 for body passage. HYGARD CG500 also tested to H.P. White TP 0500 Level A (.38 Special) and ASTM F1233, Class HG1 (.38 Special) for ballistics and EN ISO 23125 ($C^3$) for machine tools/turning machines. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an attack. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. HYGARD CG500 sheet has a seven (7) year Limited Product Warranty against coating failure, delamination, yellowing, and hazing. The terms of the warranty are available upon request.

**APPLICATIONS INCLUDE:**
Jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing centers or facilities, turning machines

# HYGARD® SECURITY LAMINATES

## CG750 Containment Grade

**CONTAINMENT GRADE POLYCARBONATE**
HYGARD CG750 containment grade sheet is a 0.750″ thick, 3-ply polycarbonate laminate that is tested to ASTM F 1233 Class 2.4, H.P. White TP 0500 Level B Ballistics (9 mm Luger) and EN ISO 23125 ($C^3$) for machine tools/turning machines. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an attack. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical attack, and graffiti. HYGARD CG750 sheet has a seven (7) year Limited Product Warranty against coating failure, delamination, yellowing, and hazing. The terms of the warranty are available upon request.

**APPLICATIONS INCLUDE:**
Security doors, windows, jails, detention centers, psychiatric hospitals, reception areas, convenience stores, check cashing centers or facilities, turning machines

# HYGARD® SECURITY LAMINATES
## BR750 Ballistic Grade

### BALLISTIC GLAZING - LEVEL 1

HYGARD BR750 ballistic grade sheet is a 0.780″, 3-ply polycarbonate and acrylic laminate that meets the UL 752 Level 1 rating for 9 mm ballistic attack. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. HYGARD BR750 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows

# HYGARD® SECURITY LAMINATES
## BR1000 Ballistic Grade

### BALLISTIC GLAZING - LEVEL 2

HYGARD BR1000 ballistic grade sheet is a 1.000″, 4-ply polycarbonate laminate that meets the UL 752 Level 2 rating for .357 Magnum ballistic attack and HP White TP 0500 Level IV. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an attack. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical attack, and graffiti. HYGARD BR1000 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows

# HYGARD® SECURITY LAMINATES

## BR1250 Ballistic Grade

### BALLISTIC GLAZING - LEVEL 3

HYGARD BR1250 ballistic grade sheet is a 1.250˝, 4-ply polycarbonate laminate that meets UL 752 Level 3 rating for .44 Magnum ballistic attack, HP White TP 0500 Level IV, and ASTM F 1233 Class 5. Unlike glass-clad products, this all-polycarbonate laminate resists spalling and white-out after repeated high force and ballistic impacts, an advantage in maintaining visibility of a threat during an attack. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. Applications include security doors, windows, and other areas that require these specific levels of protection. HYGARD BR1250 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows



# HYGARD® SECURITY LAMINATES

## MS1250 Ballistic Grade

### MULTI SHOT PROTECTION

HYGARD MS1250 ballistic grade sheet is a 1.250˝, 4-ply acrylic and polycarbonate laminate that meets UL 752 Level 6 rating for high speed multi-shot 9 mm (Uzi) ballistic attack and supplementary shotgun rated using rifled lead slug or lead buckshot fired from a 12-gauge shotgun. All HYGARD products incorporate TUFFAK polycarbonate sheet produced for high optical quality in security glazing laminates. Exterior surfaces have a proprietary TUFFAK AR hardcoat that facilitates cleaning and resists marring, chemical, and graffiti attack. HYGARD MS1250 sheet has a seven (7) year Limited Product Warranty against coating failure, yellowing, and hazing. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Government and detention facilities, banks, specialty retailers, 24 hour convenience stores, cash transaction windows

**AMGARD** SAFETY SHIELDS®

## Antimicrobial

## ANTIMICROBIAL POLYCARBONATE SHEET

AMGARD clear polycarbonate sheet is formulated with silver ion antimicrobial technology that protects the sheet surface from microorganism growth and remains active for the entire life of the product. When used as protective barriers, AMGARD polycarbonate sheet provides a clear solid partition between individuals. It is easy to fabricate and form for a wide range of interior applications.

TUFFAK® AMGARD sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

» Inhibits microbe surface degradation

» Independent laboratory tested

» Half the weight of glass

» Does not shatter into sharp-edged pieces like glass

» Easy to fabricate & clean

## APPLICATIONS INCLUDE:

Protective barriers, office partitions, safety enclosures, equipment housings



AMGARD is formulated with silver ion antimicrobial technology to protect the sheet's surface. It is not designed to prevent the transmission of any disease or infectious agent.

## Packaging

» Stock case packaging

## Masking

Standard Masking Configurations

**Gauges:** .118″ - 0.220″, Stock Film Masking, Two (2) Sides

| Full Pallet Packaging | |
| --- | --- |
| Gauge | 0.220 |
| Sheet Size    48 x 96 | 45 |

| Half Pallet Packaging | |
| --- | --- |
| Gauge | 0.220 |
| Sheet Size    48 x 96 | 23 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes

Lengths: 96″

Widths: 48″

## Tolerances

Width & Length, Standard: +0.000″ (Min) - +0.250″ (Max)

Width & Length, Non-standard 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

0A00 - Clear

# AMGARD® SAFETY SHIELDS
## Scratch-Resistant Antimicrobial

## SCRATCH-RESISTANT ANTIMICROBIAL

AMGARD scratch-resistant polycarbonate sheet is formulated with silver ion antimicrobial technology that protects the sheet surface from microorganism growth and remains active for the entire life of the product. The proprietary coating provides enhanced abrasion resistance to polycarbonate's inherent performance benefits of impact strength and clarity. The scratch-resistant coating also adds exceptional resistance to common disinfecting cleaning chemicals. The result is a highly durable and tough antimicrobial sheet that can stand up to today's demanding safety barrier environments.

TUFFAK® AMGARD-SR sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

» Inhibits microbe surface degradation

» Independent laboratory tested

» Abrasion resistant

» Chemical resistant

» Half the weight of glass

» Virtually unbreakable

» Easy to fabricate and clean

### APPLICATIONS INCLUDE:
Durable protective barriers, office partitions, safety enclosures, interior windows and glazing

AMGARD SR is formulated with silver ion antimicrobial technology to protect the sheet's surface. It is not designed to prevent the transmission of any disease or infectious agent.

### Packaging
» Weight per pallet: 2,000 lbs.

### Material
Material can be supplied as scratch resistant coated 1 or 2 sides

### Masking
Standard Masking Configurations
All Gauges: 0.118˝ - 0.236˝, 3 mil Clear Film Masking

| Pallet Packaging | | | | | | | |
|---|---|---|---|---|---|---|---|
| Gauge | 0.060 | 0.080 | 0.093 | 0.118 | 0.177 | 0.220 | 0.236 |
| Sheet Size    48 x 96 | - | - | - | 85 | 60 | 45 | 45 |

**Items listed here are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 96˝
Widths: 48˝

### Tolerances
Width & Length, Standard: 0.000˝ (Min) - 0.625˝ (Max)
Width & Length, Non-standard 0.000˝ (Min) - 0.250˝ (Max)

### Colors, Standard
0A00 - Clear (Gauges: All)

# TUFFAK® Mirror
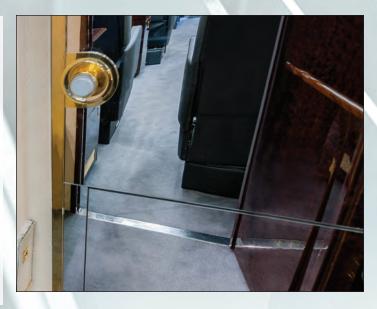
## MIRROR POLYCARBONATE SHEET

TUFFAK Mirror is a virtually unbreakable mirror product that improves safety and eliminates the hazards associated with broken glass. The high optical quality polycarbonate substrate provides clear mirror images and a first surface coating provides abrasion resistance and durable coating protects the mirrored second surface. The product is lightweight (half the weight of mirrored glass) and easy to fabricate and installation.

» Virtually unbreakable

» Approximately half the weight of glass mirror

» Abrasion-resistant coating

» Aircraft grade meets FAR 25.853(a) flammability

## APPLICATIONS INCLUDE:

Jails, Gyms, Hospitals, Airplanes, Casinos



**Standard Sizes**

48″ x 96″

**Masking**

Standard Masking Configurations

Gauges: 0.118″ - 0.236″, Paper

**Non-stock item –
Contact your Customer Service
Representative for a quote**

# TUFFAK®-*Lumen XT* / LED Diffusing

## LIGHT DIFFUSING POLYCARBONATE SHEET

TUFFAK Lumen XT sheet is a translucent polycarbonate product with a textured surface on one side specifically designed for lighting lenses. It features a unique combination of high light diffusion and high light transmission through a combination of optimized surface texture and advanced diffuser technologies.

When compared to other light diffusing products such as glass, TUFFAK Lumen XT sheet has superior impact strength and toughness. Its higher flammability resistance and wider service temperature range provide an additional performance advantage over acrylic diffusers.

The wide range of standard diffusion levels offers designers the flexibility to maximize light fixtures' aesthetics and performance. Other surface textures are available for additional design options.

### APPLICATIONS INCLUDE:

Interior LED and conventional lighting fixtures

### Packaging

» Weight per Case: Varies per gauge

### Masking

Standard Masking Configurations

Makromask one-side, masked on the non-textured side

| Case Packaging | | |
|---|---|---|
| Gauge | 0.060 | 0.118 |
| Sheet Size  48 x 96 | 26 | 13 |

### Standard Sizes

Lengths: 96˝ (Gauges: 0.060˝ - 0.118˝)

Widths: 48˝ (Gauges: 0.060˝ - 0.118˝)

### Tolerances

Width & Length, Standard: 0.000˝ (Min) - 0.625˝ (Max)

Width & Length, Non-standard 0.000˝ (Min) - 0.250˝ (Max)

### Standard Diffusion Grades

LC0 – Light scattering (Gauges: All)

LC3 – Light scattering (Gauges: All)

LC5 – Light scattering (Gauges: All)

LC7 – Light scattering (Gauges: All)

LW3 – Light scattering (Gauges: All)

LW5 – Light scattering (Gauges: All)

LW7 – Light scattering (Gauges: All)

LW9 – Light scattering (Gauges: All but 0.118" which is non-stock)

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

## LUMEN XT-V – ENHANCED FLAME RATING

TUFFAK Lumen XT-V is a translucent polycarbonate sheet with a textured surface on one side specifically designed for lighting lenses where enhanced flame rating is required, and at 0.118˝ meets Flame Class UL 94-V0, 5VA. Available in three diffusion levels, Lumen XT-V offers design flexibility and outstanding performance.

### INTENDED APPLICATIONS:

Industrial luminaires, hazardous location lighting, transportation lenses, fixtures with NEC Class I Circuits

### Packaging

» Custom, non-stock

### Masking

Standard Masking Configurations

Makromask one-side, masked on the non-textured side

| Case Packaging | |
|---|---|
| Gauge | 0.118 |
| Sheet Size  48 x 96 | - |

### Standard Sizes

Lengths: 96˝ (Gauges: 0.118˝)

Widths: 48˝ (Gauges: 0.118˝)

### Tolerances

Width & Length, Standard: 0.000˝ (Min) - 0.625˝ (Max)

Width & Length, Non-standard 0.000˝ (Min) - 0.250˝ (Max)

### Standard Diffusion Grades

LC3 – Light scattering (Gauges: All)

LC5 – Light scattering (Gauges: All)

LC7 – Light scattering (Gauges: All)

# TUFFAK®-*DX-NR*  Outdoor Lighting

## OUTDOOR LED LIGHTING POLYCARBONATE

TUFFAK DX-NR is a translucent polycarbonate product specifically designed for use as a lighting lens in outdoor applications. The diffuser technology helps to provide uniform luminance and ensures elimination of LED hot spots while maintaining high light transmission. The advanced UV resistance technology provides long lasting weathering performance and the non-reflective texture built into the UV resistant side of the sheet, enhances its aesthetics.

When compared to other light diffusing products such as glass, TUFFAK DX-NR has superior impact strength and toughness. Its higher flammability resistance and wider service temperature provide an additional advantage over other diffusers.

**Packaging**

» Weight per Case: Varies per gauge

| Case Packaging | | |
|---|---|---|
| Gauge | 0.060 | 0.118 |
| Sheet Size    48 x 96 | - | - |

**Standard Sizes**

Lengths: 96″ (Gauges: 0.060″ or 0.118″)
Widths: 48″ (Gauges: 0.060″ or 0.118″)

**Tolerances**

Width & Length, Standard: 0.000" (Min) - 0.625″ (Max)

**Masking**

Standard Masking Configurations

High Tack on NR textures side and Tuff Mask on smooth side

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

**Standard Diffusion Grades**

DC8 with Non-Reflective (NR) texture

# TUFFAK®-*NR* /-*NR-C*  Non-Reflective

## NON-REFLECTIVE POLYCARBONATE SHEET

TUFFAK NR is an enhanced UV resistant polycarbonate sheet product with a proprietary matte surface which reduces reflections typically associated with smooth sheet. The product's advanced UV resistance technology promotes long lasting outdoor weathering performance. It features outstanding impact strength, superior dimensional stability and high temperature resistance. This lightweight sheet is also easy to fabricate and decorate

## APPLICATIONS INCLUDE:

Display and screen protectors, signage, lenses, menu boards, and other applications requiring a non-reflective surface for improved viewing with reduced glare



### Packaging
» Weight per Case:
  Varies per gauge

### Masking
Standard Masking Configurations
Protective masking two sides

| Pallet Packaging | | | |
|---|---|---|---|
| Gauge | 0.060 | 0.118 | 0.177 |
| Sheet Size  48 x 96 | 26 | - | - |
| 80.7 x 120 | - | 13 | - |

### Standard Sizes
Lengths: 96˝ (Gauges: 0.060˝ or 0.177˝)
Widths: 48˝ (Gauges: 0.060˝ or 0.177˝)

### Tolerances
Width & Length, Standard: 0.000" (Min) - 0.250˝ (Max)

### Colors, Standard
0A00 - Clear

**Items listed here are common stock items,
but not guaranteed to be in stock –
Contact your Customer Service Representative
to confirm stock availability**

## NON-REFLECTIVE HARD-COAT POLYCARBONATE

TUFFAK NR-C sheet is an enhanced UV resistant, non-reflective, one side hard-coated polycarbonate sheet product with a textured hard coat surface which reduces glare normally associated with flat sheet. This hard coating also adds abrasion and chemical resistance to polycarbonate's inherent performance benefits of high impact strength and dimensional stability.

## APPLICATIONS INCLUDE:

Display and screen protectors, fuel dispensing systems, signage, lenses, menu boards and other applications requiring a non-reflective surface for improved viewing with reduced glare combined with improved mar and chemical resistance

### Packaging
» Weight per Case:
  Varies per gauge

### Masking
Standard Masking Configurations
Protective masking two sides

| Pallet Packaging | | | |
|---|---|---|---|
| Gauge | 0.060 | 0.080 | 0.118 |
| Sheet Size  48 x 96 | 26 | 20 | 13 |
| 80.7 x 120 | - | - | - |

### Standard Sizes
Lengths: 96˝ (Gauges: 0.060˝ or 0.177˝)
Widths: 48˝ (Gauges: 0.060˝ or 0.177˝)

### Tolerances
Width & Length, Standard: 0.000" (Min) - 0.250˝ (Max)

### Colors, Standard
0A00 - Clear

# TUFFAK®-WG Window Grade

## WINDOW GRADE POLYCARBONATE SHEET

TUFFAK WG polycarbonate engineering plate is a UV-stabilized, amorphous sheet. It offers extremely high impact strength, high modulus of elasticity, outstanding dimensional stability, and good mechanical and electrical properties. TUFFAK WG demonstrates low levels of black specks or other impurities.

## APPLICATIONS INCLUDE:

Sight windows for tanks/vessels, viewport windows, medical parts, military applications

**Packaging**

» Custom, non-stock, 1 sheet minimum

**Masking**

Standard Masking Configurations

Paper Masking, Both Sides

| Case Packaging | | | | | | |
|---|---|---|---|---|---|---|
| Gauge | 0.750 | 1.000 | 1.250 | 1.500 | 1.750 | 2.000 |
| Sheet Size 24 x 24 | - | - | - | - | - | - |
| 24 x 48 | - | - | - | - | - | - |
| 48 x 48 | - | - | - | - | - | - |
| 48 x 96 | - | - | - | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative for a quote**

**Standard Sizes**

Lengths: 24″, 48″, 96″ (Gauges: 0.750″ - 2.000″)
Widths: 24″, 48″ (Gauges: 0.750″ - 2.000″)

**Tolerances**

Width & Length - Plus tolerance only

**Colors, Standard**

0A00 - Transparent
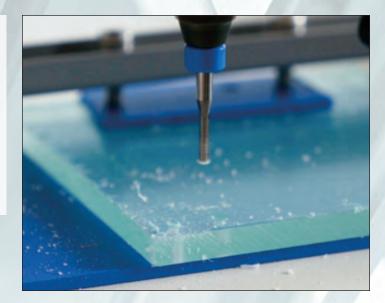
# TUFFAK-®MG  Machine Grade

## MACHINE GRADE POLYCARBONATE SHEET

TUFFAK MG machine grade polycarbonate is a low stress engineering plastic designed for heavily fabricated, tight tolerance parts. It features extremely high impact strength, high modulus of elasticity, outstanding dimensional stability, and good electrical properties. TUFFAK MG is available in clear and black and is textured on both sides.

## APPLICATIONS INCLUDE:

Machined parts, manifolds, insulators, and electrical components

### Packaging

» Weight per Case: Varies per gauge

### Masking

Standard Masking Configurations

Material is supplied unmasked

| Case Packaging | | | | | | |
|---|---|---|---|---|---|---|
| Gauge | 0.750 | 1.000 | 1.250 | 1.500 | 1.750 | 2.000 |
| Sheet Size    48 x 96 | 1 | 1 | - | - | - | - |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96″ (Gauges: 0.750″ - 2.000″)
Widths: 48″ (Gauges: 0.750″ - 2.000″)

### Tolerances

Width & Length - Plus tolerance only

### Colors, Standard

0A00 - Translucent
L10 - Black, non-stock

### Grades Available

UV-stabilized, Standard

# TUFFAK®-uc / Ultra Clear

## ULTRA CLEAR POLYCARBONATE SHEET

TUFFAK UC sheet is a polycarbonate product exhibiting unsurpassed visible light transmission versus other polycarbonate sheet products. This high clarity sheet is specifically designed for use in multilayer laminates.

### APPLICATIONS INCLUDE:
Specialty laminates

## Packaging

» Custom, non-stock

## Masking

Standard Masking Configurations
**Gauges:** 0.118″ - 0.500″, Makro Mask Two (2) Sides

| Pallet Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.118 | 0.177 | 0.236 | 0.375 | 0.500 |
| Sheet Size 48 x 96 | - | - | - | - | - |
| 60 x 96 | - | - | - | - | - |
| 72 x 96 | - | - | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative for a quote**

## Standard Sizes
Lengths: 96″ (Gauges: 0.118″ - 0.500″)
Widths: 48″, 60″, 72″ (Gauges: 0.118″ -0 .500″)

## Colors, Standard
0A00 - Clear

## Tolerances
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

# TUFFAK®-AU

## Abrasion Resistant Ultra Clear



## ABRASION RESISTANT / ULTRA CLEAR POLYCARBONATE SHEET

TUFFAK AU sheet is a one side, hard coated polycarbonate product exhibiting unsurpassed visible light transmission versus other polycarbonate sheet products. This high clarity sheet is specifically designed for use in multilayer laminates. The advanced hard coat technology significantly enhances the abrasion resistance, chemical resistance, and weathering properties of the product while maintaining the excellent impact performance of TUFFAK polycarbonate.

## APPLICATIONS INCLUDE:

Specialty laminates

**Packaging**

» Custom, non-stock

**Masking**

Standard Masking Configurations

Gauges: 0.118″ - 0.500″, Printed Paper Masking – Coated side
Hi-tack PE - Uncoated side

| Pallet Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.118 | 0.177 | 0.236 | 0.375 | 0.500 |
| Sheet Size 48 x 96 | - | - | - | - | - |
| 60 x 96 | - | - | - | - | - |
| 72 x 96 | - | - | - | - | - |

**Non-stock Item –**
**Contact your Customer Service Representative for a quote**

**Standard Sizes**

Lengths: 96″ (Gauges: 0.118″ - 0.500″)
Widths: 48″, 60″, 72″ (Gauges: 0.118″ - 0.500″)

**Tolerances**

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

**Colors, Standard**

0A00 - Clear

# TUFFAK®-BG Bus Glazing

## BUS GLAZING POLYCARBONATE SHEET

TUFFAK BG sheet is a hard-coated polycarbonate product designed for exceptional durability. Manufactured to meet demanding bus glazing requirements, this product features abrasion resistance, chemical resistance, and long lasting outdoor weathering performance. The high impact strength of this product provides excellent protection against vandalism, reducing unplanned maintenance and repair. TUFFAK BG meets DOT/FMVSS 205/ANSI Z26.1 Item AS-4 and is available in clear as well as a variety of standard and custom tints.

## APPLICATIONS INCLUDE:

Bus windows



## Packaging

» Custom, non-stock

## Masking

Standard Masking Configurations

**Gauges:** 0.236˝ - 0.500˝, Stock Paper Masking Two (2) Sides

| Half Pallet Packaging | | | | |
|---|---|---|---|---|
| Gauge | | 0.236 | 0.375 | 0.500 |
| Sheet Size | 48 x 96 | - | - | - |
| | 60 x 96 | - | - | - |
| | 72 x 96 | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

## Standard Sizes

Lengths: 96˝

Widths: 48˝, 60˝, 72˝

## Tolerances

Width & Length: 0.000˝ (Min) - 0.625˝ (Max)

## Colors, Standard

A00 - Clear (Gauges: All)

I30 - Gray, Light

Custom colors available upon approved color match

# TUFFAK-*TG*  Rail Glazing

## RAIL GLAZING POLYCARBONATE SHEET

TUFFAK TG sheet is a hard-coated polycarbonate product designed for high optical quality and exceptional durability. The sheet is available in monolithic 0.236″ and 0.250″ and when used as part of a Dual Glazed system, meets stringent U.S Federal Railroad requirements for impact, ballistic and flammability performance. TUFFAK TG 0.460″ meets the FRA requirement as a monolithic product. State-of-the-art manufacturing and inspection processes provide low optical distortion and the advanced hard coat technology provides excellent abrasion resistance, chemical resistance, and long lasting outdoor weathering performance. This product is available in clear and a variety of standard and custom tints. TUFFAK TG is offered with a seven (7) year Limited Product Warranty against breakage for flat vertical applications. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Passenger rail car windows and other transportation glazing

## Packaging

» Custom, non-stock

## Masking

Standard Masking Configurations
**Gauges:** 0.236″ - 0.500″, Stock Paper Masking Two (2) Sides

| Half Pallet Packaging | | | |
|---|---|---|---|
| Gauge | 0.236 | 0.375 | 0.500 |
| Sheet Size 48 x 96 | - | - | - |
| 60 x 96 | - | - | - |
| 72 x 96 | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

## Standard Sizes

Lengths: 96″
Widths: 48″, 60″, 72″

## Tolerances

Width & Length: 0.000″ (Min) - 0.625″ (Max)

## Colors, Standard

A00 - Clear (Gauges: All)
I30 - Gray, Light

Custom colors available upon approved color match

# TUFFAK-DG® Driver Guard

## BUS DRIVER GUARD POLYCARBONATE SHEET

TUFFAK DG sheet is a hard-coated polycarbonate product designed for high optical quality and exceptional durability. The sheet is available in 0.236″ and 0.375″ inches thick with a specified direction of extrusion for proper installation. Manufactured to meet demanding bus glazing requirements, this product features abrasion resistance, chemical resistance, and long lasting performance. The high impact strength of this product provides excellent protection against vandalism and can help reduce driver assaults. The clarity of the glazing enables drivers to interact freely with passengers, while maintaining a high level of protection.

TUFFAK DG meets DOT/FMVSS 205/ANSI Z26.1 Item AS-4, and is NHTSA approved for use as a protective driver partition. The product carries a seven (7) year Limited Product Warranty against breakage for flat vertical applications. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Safety shielding for mass transit bus fleets



### Packaging

» Stock half-pallet packaging

### Masking

Standard Masking Configurations
**Gauges:** 0.236″ - 0.375″, Stock Film Masking Two (2) Sides

| Half Pallet Packaging | | |
|---|---|---|
| Gauge | 0.236 | 0.375 |
| Sheet Size    72 x 96 | 15 | 9 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 72″
Widths: 96″

### Tolerances

Width & Length: 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

A00 - Clear (Gauges: All)

EXTRUDED POLYCARBONATE

# TUFFAK-HV Heavy Equipment Glazing

## HEAVY EQUIPMENT GLAZING POLYCARBONATE

TUFFAK HV sheet is a hard-coated polycarbonate product designed for applications that demand high optics, impact resistance, and enhanced weathering. State-of-the-art manufacturing and inspection processes deliver low optical distortion and the advanced hard coat technology provides excellent abrasion resistance, chemical resistance, and long lasting outdoor weathering performance. TUFFAK HV is available in clear as well as a variety of standard and custom tints.

### APPLICATIONS INCLUDE:
Off-road, specialty and heavy duty vehicle glazing



**Packaging**
» Custom, non-stock

**Masking**
Standard Masking Configurations
Gauges: 0.236″ - 0.500″, Stock Paper Masking Two (2) Sides

**Tolerances**
Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

**Colors, Standard**
0A00 - Clear (Gauges: All)
H35 - Green, transportation
I30 - Gray, Light

Custom colors - available upon approved match

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

# TUFFAK®-TX

## Transportation Glazing

### EXTENDED WEATHERABILITY TRANSPORTATION GLAZING POLYCARBONATE

TUFFAK TX sheet is a hard-coated polycarbonate product designed to meet demanding transportation glazing applications. The sheet provides high impact performance at half the weight of the glass. The advanced hard coat technology provides extended outdoor weathering properties and significantly enhances abrasion and chemical resistance. TUFFAK TX meets DOT/ANSI Z26.1 Item AS-4 and is available in clear, as well as a variety of standard and custom tints.

### APPLICATIONS INCLUDE:

Truck cabs, side and back windows, automotive roofs, and other transportation glazing

### Packaging

» Custom, non-stock

### Masking

Standard Masking Configurations

**Gauges:** 0.236″ - 0.375″, White Paper Masking Two (2) Sides

| Case Packaging | | | |
|---|---|---|---|
| Gauge | | 0.236 | 0.375 |
| Sheet Size | 48 x 96 | - | - |
| | 60 x 96 | - | - |
| | 72 x 96 | - | - |

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

### Standard Sizes

Lengths: 96″

Widths: 48″, 60″, 72″

### Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)

Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear (Gauges: All)

H35 - Green, Transportation (2.000 lb Minimum)

I30 - Gray, Light (2.000 lb Minimum)

# TUFFAK®-AL Automotive Lamination

## AUTOMOTIVE LAMINATION POLYCARBONATE

TUFFAK AL sheet is a one side hard coated polycarbonate product designed to meet the high optical quality requirements of automotive laminates. State-of-the-art manufacturing and inspection processes ensure minimal inclusions and surface defects. The advanced hard coat technology significantly enhances the abrasion resistance, chemical resistance, and weathering properties of the product while maintaining the excellent impact performance of TUFFAK polycarbonate.

## APPLICATIONS INCLUDE:

Automotive laminates



## Packaging

» Weight per Case

## Masking

Standard Masking Configurations

White Adhesive Film Masking Coated Side,
Clear Adhesive Film Uncoated Side

| Case Packaging | | |
|---|---|---|
| Gauge | | 0.118 |
| | 48 x 96 | - |
| Sheet Size | 72 x 120 | - |
| | 78.75 x 115 | 23 |

**Call for minimums and lead time**

## Colors, Standard

0A00 - Clear (Gauges: All)

# TUFFAK®-SQ   Specified Quality

## SPECIFIED QUALITY POLYCARBONATE SHEET

TUFFAK SQ sheet is a polished surface, UV stabilized, transparent polycarbonate product. Targeted optical quality is achieved through state-of-the-art extrusion and inspection processes. Quality limits for distortion, inclusions, and surface defects are set for each customer to meet their specific application requirements.

### APPLICATIONS INCLUDE:
Optically critical end uses



**Non-stock Item –
Contact your Customer Service Representative
for a quote**

# TUFFAK®-AF   Anti-Fog

## ANTI-FOG POLYCARBONATE SHEET

TUFFAK AF polycarbonate sheet is a two-side coated product that provides long lasting anti-fog properties in addition to the inherent polycarbonate performance benefits of impact strength and clarity. The proprietary coating also provides abrasion resistance and enhanced chemical resistance. This optically clear sheet will retain its anti-fog properties even after repeated cleanings with commercial glass and lens cleaners. The product is available in clear or a range of standard tints.  TUFFAK AF polycarbonate sheet has a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available on request.

### APPLICATIONS INCLUDE:
Personal protection safety shields, ski goggles, swim goggles, underwater photography equipment, face shields, industrial safety shields and firefighter helmets



**Non-stock Item –
Contact your Customer Service Representative
for a quote**

# TUFFAK®-IR  Infrared Blocker

## IR/UV BLOCKING POLYCARBONATE SHEET

TUFFAK IR is a polycarbonate sheet product developed to meet ANSI Z87.1, EN 169, and CSA Z94.3 standards for face shield applications. Proprietary additive systems block UV and IR light providing protection during gas flame welding and cutting operations and meeting the requirements for welding shades 3 and 5. Polycarbonate's toughness provides outstanding impact performance and state-of-the-art extrusion manufacturing delivers high optical quality needed for face shield applications.

## APPLICATIONS INCLUDE:

Face shields for flame welding and cutting and general IR protection



## Packaging

» Weight per Half Pallet: 1,000 lbs.

## Masking

Standard Masking Configurations
Gauges: .0.044″, Clear Joggable Polyethylene, Two (2) Sides.
Additional Masking Available for this Product- Call for quote

| Half Pallet Packaging | |
|---|---|
| Gauge | 0.044 |
| Sheet Size  24 x 48 | - |
| 48 x 96 | 125 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes

Lengths: 24″ and 96″
Widths: 48″

## Tolerances

Width & Length, Standard: 0.000″ (Min) - 0.625″ (Max)
Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

S34 – Shade 3 at 0.044″
S54 – Shade 5 at 0.044″

# TUFFAK-*M5*

## Flexible Marine Enclosure

### FLEXIBLE ENCLOSURE POLYCARBONATE

TUFFAK Marine 5 sheet is a polycarbonate product designed for applications demanding high optical clarity, exceptional durability, and longevity against the harsh marine environment. State-of- the-art manufacturing processes provide low optical distortion for clear views and unparalleled sight lines. The advanced hard coat technology provides excellent abrasion resistance, enhanced clarity, chemical resistance, and long lasting outdoor weathering performance. TUFFAK Marine 5 maintains its impact strength in extreme temperatures to -30ºF. TUFFAK Marine 5 can be easily cut and sewn, making this a more versatile option versus glazing materials that require gluing.

TUFFAK Marine 5 is offered with a five (5) year Limited Product Warranty against micro-cracking, yellowing, and breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Marine flexible enclosures

### Packaging

» Case Packs – approximately 300 lbs.

### Masking

Standard Masking Configurations

Printed "AR" Makromask / Printed "AR" Makromask

| Case Packaging | | | |
|---|---|---|---|
| Gauge | | 0.060 | 0.080 |
| Sheet Size | 50 x 110 | 26 | - |
| | 60 x 110 | - | 20 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 110″
Widths: 50″ in 0.060″ and 60″ in 0.080″

### Colors, Standard

A00 - Clear

# TUFFAK®-*VR* Flexible Enclosure

## FLEXIBLE ENCLOSURE POLYCARBONATE

TUFFAK VR sheet is a polycarbonate product designed for high optical quality and exceptional durability. Proprietary UV technology ensures long lasting outdoor weathering performance while protecting occupants from the sun's harmful UV rays. State-of-the-art manufacturing processes provide low optical distortion for clear views and unparalleled sight lines.

TUFFAK VR can be easily cut and sewn, offering a high clarity, wrinkle-free alternative to flexible vinyl. The product can be rolled, making it ideal for applications with limited storage. TUFFAK VR maintains its impact strength in extreme temperatures to -30ºF.

TUFFAK VR is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Marine flexible enclosures, tent and awning enclosures

**Packaging**

» Case Packs – approximately 300 lbs.

**Masking**

Standard Masking Configurations

Printed Makromask / Plain Makromask

| Case Packaging | |
|---|---|
| Gauge | 0.040 |
| Sheet Size  52 x 110 | 37 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

**Standard Sizes**

Lengths: 110˝

Widths: 52˝

**Colors, Standard**

A00 - Clear

PI-053

# TUFFAK-WC Welding Curtain

## WELDING CURTAIN POLYCARBONATE SHEET

TUFFAK WC sheet is a polished surface, transparent polycarbonate sheet product designed for welding curtain and screen applications. The sheet can also be used in applications requiring UV light blocking such as screens in tanning salons and intense sunlit areas. It features outstanding impact strength, superior dimensional stability, high temperature resistance, high clarity and it is light weight and easy to fabricate. The sheet protects individuals against intense and harmful light emitted during arc welding. TUFFAK WC polycarbonate sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Welding curtains, screens, booths, enclosures and walkways, tanning salon screens and other extreme UV or visible light areas

### Regulatory code compliance and certifications

AWS F2.3M:2011 Specification for Use and Performance of Transparent Welding Curtains and Screens for light transmission properties.

### Packaging

» Weight per Case: 300 lbs.
» Weight per Pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
Makro Mask, Two (2) Sides.
Additional masking options available – price per side

| Case Packaging | | | | |
|---|---|---|---|---|
| Gauge | | 0.118 | 0.177 | 0.236 |
| Sheet Size | 48 x 96 | 13 | - | - |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96″
Widths: 48″

### Tolerances

Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

Light Shade
M62 – Yellow (Gauges 0.118″, 0.236″)
Medium Shade
D59 – Red (Gauges, 0.118″, 0.236″)
C30 – Amber (Gauges, 0.118″, 0.236″)
Dark Shade
H07 – Dark Green (Gauge 0.118″, 0.236″)

# TUFFAK-*LS* / Laser Safety

## LASER SAFETY POLYCARBONATE SHEET

TUFFAK LS sheet is a tinted, transparent polycarbonate sheet designed with high optical density at targeted wavelengths for laser shielding applications. It features outstanding impact strength, superior dimensional stability, high temperature resistance, high optical density and high clarity. This lightweight sheet is also easy to fabricate. TUFFAK LS sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

## APPLICATIONS INCLUDE:

Laboratory viewing windows, area protective barriers, laser viewing table enclosures, laser viewing ports, safety screens or beam blocking curtains for medical applications, safety screens in laser cutting operations and laser research

### Regulatory code compliance and certifications

ANSI Z136.7 Appendix C – Procedure for Laser Based Testing of Optical Density for Absorptive Filters. American National Standard for Laser Protective Equipment



## Packaging

» Weight per Case: Varies per gauge.
» Weight per Pallet: 2,000 lbs.
» Weight per Half Pallet: 1,000 lbs.

## Masking

Standard Masking Configurations
**Gauges:** 0.118″ TUF Mask, Two (2) Sides

| Packaging | | |
|---|---|---|
| Gauge | | 0.118 |
| Sheet Size | 24 x 48 | 1 |
| | 48 x 96 | 1 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes

24″ x 48″ (Gauges: 0.118″)
48″ x 96″ (Gauges: 0.118″)

## Tolerances

Width: 0.000″ (Min) - 0.250″ (Max)
Length: 0.000″ (Min) - 0.250″ (Max)

## Colors, Standard

LSG Gray, Light (Gauges: 0.118″)
LSY Yellow (Gauges: 0.118″)
LSA Amber (Gauges: 0.118″)

# TUFFAK-CA®

## Class A Requirements

### CLASS A PERFORMANCE POLYCARBONATE

TUFFAK CA is an optical grade transparent polycarbonate sheet product designed to meet Class A flammability requirements in the International Building Code (IBC) for interior wall and ceiling finishes. It features outstanding impact strength, high temperature resistance and high clarity and passes the National Fire Protection Association (NFPA) 286 flammability requirements. This UV stable, lightweight, thermoformable, and easy to fabricate sheet is available in smooth and patterns; clear and colors. TUFFAK CA sheet is offered with a five (5) year Limited Product Warranty against breakage. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Class A rated wall and ceiling finishes, coverings, decorative panels, protective coverings, partitions, interior windows, safety barriers, lighting diffusers and interior signage

### Packaging

» Custom orders, non-stock
» Weight per Pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
Gauges: 0.118″ - 0.236″, Tuf Mask, Two (2) Sides
Gauges: 0.375″ - 0.500″, Paper Masking, Two (2) Sides

| Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.118 | 0.177 | 0.236 | 0.375 | 0.500 |
| Sheet Size 48 x 96 | - | - | - | - | - |
| 60 x 96 | 85 | - | 45 | - | - |
| 72 x 96 | - | - | - | - | - |

**Non-stock Item –**
**Contact your Customer Service Representative for a quote**

### Standard Sizes

Lengths: 48″, 96″
Widths: 48″, 60″, 72″

### Tolerances

Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear
K09 – Bronze
I30 – Gray, Light
I35 – Gray, Dark

### Textures, Available 48″ x 96″ only

MA – Matte 0.118″
80/90 - Pebble/Grain 0.236″
Prismatic 0.125″ 0.156″ 0.187″
SA – Satin
*Call for custom color minimums

# TUFFAK®-*CA-UV*    Class A / UV

## CLASS A – EXTENDED UV PERFORMANCE POLYCARBONATE SHEET

TUFFAK CA-UV is an optical grade transparent polycarbonate sheet product with extended UV resistance, designed to meet Class A flammability requirements in the International Building Code (IBC) for outdoor architectural applications. It features outstanding impact strength, high temperature resistance, high clarity and passes the National Fire Protection Association (NFPA) 286 flammbility requirements. This easy to fabricate 2-sided UV resistant sheet is lightweight, thermoformable and available in clear and standard tints and diffusing colors.

TUFFAK CA-UV clear sheet has a ten (10) year Limited Product Warranty against breakage, yellowing, and loss of light transmission. The terms of the warranty are available upon request.

### APPLICATIONS INCLUDE:

Outdoor canopies, pedestrian walkways, bus shelters, greenhouses, barrel vaults

### Packaging

» Custom orders, non-stock
» Weight per Half Pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
Gauges: 0.118″ - 0.236″, Tuf Mask, Two (2) Sides
Gauges: 0.375″, Paper Masking, Two (2) Sides

| Packaging | | | | |
|---|---|---|---|---|
| Gauge | 0.118 | 0.177 | 0.236 | 0.375 |
| Sheet Size 48 x 96 | - | - | - | - |
| 60 x 96 | - | - | - | - |
| 72 x 96 | - | - | - | - |

**Non-stock Item –
Contact your Customer Service Representative for a quote**

### Standard Sizes

Lengths: 48″, 96″
Widths: 48″, 60″, 72″

### Tolerances

Width: 0.000″ (Min) - 0.250″ (Max)
Length: 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear (Gauges: 0.118″ – 0.375″)
K09 – Bronze (Gauges 0.118″ – 0.375″)
I30 – Gray, Light (Gauges 0.118″ – 0.375″)
I35 – Gray, Dark (Gauges 0.118″ – 0.236″)

# TUFFAK-*CA-AR*  Class A / Hard Coat

## CLASS A – HARD-COATED POLYCARBONATE

TUFFAK CA-AR polycarbonate sheet is a one or two side hard-coated polycarbonate product that is designed to meet Class A flammability requirements within the International Building Code (IBC) for indoor and outdoor applications. The coating adds a higher abrasion resistance and surface hardness to polycarbonate's inherent performance benefits of impact strength and clarity. The proprietary hard-coat also provides chemical resistance and long lasting outdoor weathering performance. This product is available in clear sheet and a range of standard architectural tints.

TUFFAK CA-AR polycarbonate sheet has a seven (7) year Limited Product Warranty against breakage, yellowing, and hazing. The terms of the warranty are available on request.

## APPLICATIONS INCLUDE:

Flat architectural applications requiring Class A flammability performance such as interior and exterior windows, pedestrian walkways, canopies, bus shelters, greenhouses, protective wall cladding, partitions and safety barriers

### Packaging

» Custom orders, non-stock
» Weight per Pallet: 2,000 lbs.
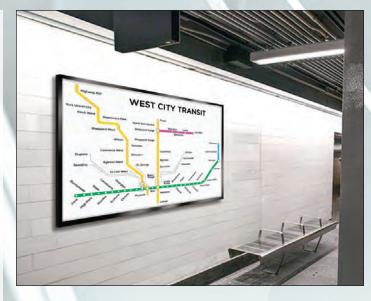
| Packaging | | |
|---|---|---|
| Gauge | 0.118 | 0.236 |
| Sheet Size 48 x 96 | - | - |
| 60 x 96 | - | - |
| 72 x 96 | - | - |

### Masking

Standard Masking Configurations

Gauges: 0.118″ - 0.236″ CA-AR2, White Printed Film Masking, Two (2) Sides

Gauges: 0.118″ - 0.236″, CA-AR1 White Printed Film Masking, One (1) Side; Clear Masking opposite side

**Non-stock Item –
Contact your Customer Service Representative
for a quote**

### Standard Sizes

Lengths: 96″
Widths: 48″, 60″, 72″

### Tolerances

Width & Length, Non-standard: 0.000″ (Min) - 0.250″ (Max)

### Colors, Standard

0A00 - Clear
K09 – Bronze
I30 – Gray, Light
I35 – Gray, Dark
*Call for custom color minimums
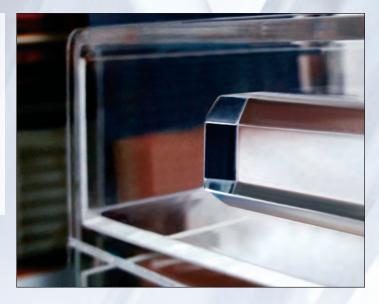
## OPTIX L-SERIES Clear

### CONTINUOUS CAST CLEAR ACRYLIC SHEET

OPTIX L continuous cast acrylic sheet has the highest clarity. It is easy to fabricate and form for many applications for interior and exterior applications with exceptional UV stability. It has superior thickness tolerance compared to cell cast sheets. OPTIX L is easy to clean and offers superior craze and chemical resistance. It is available in gauge range of 0.080˝-0.315˝. Custom gauged and sheet sizes are available.

### APPLICATIONS INCLUDE:

Furniture, cosmetic displays, interior partitions, signage

### Packaging

» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
F2 Masking Two (2) Sides Clear Polyfilm
X2, TufGuard Masking Two (2) sides

| Case Packaging | | | | | | | |
|---|---|---|---|---|---|---|---|
| Gauge | 0.080 | 0.098 | 0.118 | 0.177 | 0.220 | 0.236 | 0.315 |
| 48 x 96 | - | 100 | 80 | 55 | 45 | 40 | 35 |
| 49 x 97 | 125 | - | - | - | - | - | - |
| 51 x 100 | - | 80 | - | - | - | - | - |
| 54 x 100 | - | 70 | - | - | - | - | - |
| 60 x 96 | - | - | 75 | 50 | 45 | 45 | - |
| 72 x 96 | - | - | 65 | 45 | 35 | 35 | - |
| 76 x 100 | - | 55 | - | - | - | - | - |
| 100 x 108.25 | 60 | 50 | 40 | 30 | 25 | 20 | - |

(Sheet Size)

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96˝, 97˝, 100˝, 108.25˝ (Gauges: 0.080˝ - 0.315˝)
Widths: 48˝, 49˝, 51˝, 54˝, 60˝, 72˝, 76˝, 100˝
          (Gauges: 0.080˝ - 0.315˝)

**Custom:** Minimum Width 30˝, Maximum Length 240˝

### Tolerances

Width & Length, Standard: -0.118˝ (Min) - +0.118˝ (Max)

### Colors, Standard

NC010 - Clear (Gauges: All)

## OPTIX® L-SERIES Colors

### CONTINUOUS CAST ACRYLIC COLORS

Our continuous cast colored acrylic sheet products are high in molecular weight that combine beautiful color options with outstanding performance qualities. As well as standard colors, we offer a color matching service to meet any design specification

- » Rich, long-lasting color
- » Exceptional UV stability
- » Superior craze resistance
- » Resists surface marks and scratching
- » Easy to shape, form and fabricate
- » Uniform thickness

**Packaging**
- » Weight per case: Varies per gauge
- » Weight per pallet: 2,000 lbs.

**Masking**
Standard Masking Configurations
F2 Masking Two (2) Sides Clear Polyfilm

| Case Packaging | | | | |
|---|---|---|---|---|
| Gauge | 0.118 | 0.177 | 0.220 | 0.236 |
| **Sheet Size** 48 x 96 | 80 | 55 | 45 | 40 |
| 49 x 97 | 80 | - | - | - |
| 51 x 100 | 80 | 50 | - | 35 |
| 54 x 100 | 70 | 50 | - | - |
| 60 x 96 | 75 | 50 | 45 | 45 |
| 72 x 96 | 65 | 45 | 35 | 35 |
| 76 x 100 | 55 | 45 | - | - |
| 100 x 108.25 | 40 | 30 | 25 | 20 |
| 100 x 126 | - | - | - | 15 |
| 100 x 150 | - | - | - | 14 |

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

**Standard Sizes**
Lengths: 96″, 97″, 100″, 108.25″, 126″, 150″
(Gauges: 0.118″ - 0.236″)
Widths: 48″, 49″, 51″, 54″, 60″, 72″, 76″, 100″
(Gauges: 0.118″ - 0.236″)

**Custom:** Minimum Width 30″, Maximum Length 240″

**Tolerances**
Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

**Colors, Standard**
NC010 Clear (Gauges: All)
White 2447, 2448, 3015, 7328
Bronze 2412
Black 2025, 2026
Cascade Blue 7T5D

**OPTIX® L-SERIES**

# Black/White

## BLACK/WHITE ACRYLIC SHEET

This unique formulation has a beautiful gloss finish and eliminates the need for vinyl to create an eye-catching look. This material transforms from white to black depending on the lighting as well as time of day. It is suitable for indoor or outdoor designs. OPTIX L Black/White is an innovative product that appears black during the day and illuminates white, red, green, blue or other colors at night depending on the color of LEDs used.

This sheet provides two looks with only one product when backlit.

## APPLICATIONS INCLUDE:

Same-sign night or day applications, displays, lighting fixtures

### Packaging
» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

### Masking
Standard Masking Configurations
X2 TufGuard Masking Two (2) Sides

| Case Packaging | |
|---|---|
| Gauge | 0.177 |
| Sheet Size  54 x 100 | 55 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 100″ (Gauges: 0.177″)
Widths: 54″ (Gauges: 0.177″)

**Custom:** Minimum Width 30″, Maximum Length 240″

### Tolerances
Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

### Colors, Standard
BW2028

# OPTIX® L-SERIES    Myst



## FROST INFUSED ACRYLIC SHEET

OPTIX L Myst is a continuous cast acrylic sheet. This sheet has a chic frosted look that softly diffuses light and add subtle elegance. The frost effect is permanently infused throughout the sheet, which means it is retained through any processing and fabrication technique. OPTIX L Myst works with many light sources. Available in 0.118˝ and 0.236˝, it is easy to fabricate, line bend and has an excellent edge finish.

## APPLICATIONS INCLUDE:

Advertising display, corporate identity, exhibitions and tradeshow displays, interior design, partitions, Point-of-puchase display, store fixtures and solid surfaces

**Packaging**

» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

**Masking**

Standard Masking Configurations
F2 Clear Polyfilm Masking Two (2) Sides

| Case Packaging | | |
|---|---|---|
| Gauge | 0.118 | 0.177 |
| Sheet Size   108 x 108.25 | 35 | 25 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

**Standard Sizes**

Lengths: 108.25˝ (Gauges: 0.118˝ - 0.177˝)
Widths: 108˝ (Gauges: 0.118˝ - 0.177˝)

**Custom:** Minimum Width 30˝, Maximum Length 240˝

**Tolerances**

Width & Length, Standard: -0.118˝ (Min) - +0.118˝ (Max)

**Colors, Standard**

White 2449 (Gauges: All)

# OPTIX® L-SERIES
## Frame Grade

### FRAME GRADE ACRYLIC SHEET

OPTIX L Frame Grade continuous cast sheet has 100% guarantee of no black speck contamination. This acrylic sheet has the highest clarity. It is easy to fabricate and fit to framing requirements in many applications and it can be used either for interior or exterior applications. OPTIX L Frame Grade is easy to clean and offers superior craze and chemical resistance. It is available in thicknesses from 0.090″– 0.220″ and in a wide range of sheet sizes. Cut sizes and additional information available on request.

### APPLICATIONS INCLUDE:

Framing solutions for homes, museums, public buildings and private showcases



## Packaging

» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

## Masking

Standard Masking Configurations
PF Masking Two (2) Sides White top, clear bottom film
XP White TufGuard with red print top and bottom

| Case Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.090 | 0.098 | 0.118 | 0.177 | 0.220 |
| 48 x 96 | 120 | 100 | 80 | - | 45 |
| 49 x 97 | - | - | - | - | - |
| 51 x 100 | 110 | 100 | 75 | - | 35 |
| 54 x 100 | - | - | - | - | - |
| 60 x 96 | - | - | - | - | - |
| 72 x 96 | 75 | 75 | 65 | 45 | 35 |

(Sheet Size)

**Items listed above are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes

Lengths: 96″, 97″, 100″ (Gauges: 0.090″ - 0.220″)
Widths: 48″, 49″, 51″, 54″, 60″, 72″ (Gauges: 0.090″ - 0.220″)

**Custom:** Minimum Width 30″, Maximum Length 240″

## Tolerances

Width & Length, Standard: 0.118" (Min) - +0.118" (Max)

## Colors, Standard

Clear (Gauges: All)

# OPTIX® L-SERIES Museum Grade

## MUSEUM GRADE ACRYLIC SHEET

OPTIX L Museum Grade continuous cast acrylic sheet provides maximum protection and filters out 98% of damaging UV light. This acrylic sheet meets the demanding museum standards for display cases, with 100% guarantee of no black specks, and superior optical clarity. With uniform thickness OPTIX L Museum Grade is lighter weight and many times more resistant than glass. It is easy to fabricate and fit to all display case requirements and it can be used either for interior or exterior applications. OPTIX L Museum Grade is easy to clean and offers superior craze and chemical resistance. It is available in thicknesses from 0.098″– 0.236″ and in a wide range of sheet sizes.

### APPLICATIONS INCLUDE:

Exhibit Display Cases

### Packaging

» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
MP Masking Two (2) Sides White TufGuard with black print top and bottom
X2 TufGuard Two (2) Sides

| Case Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | | 0.098 | 0.118 | 0.177 | 0.236 |
| | 48 x 96 | 100 | 80 | 55 | 40 |
| Sheet Size | 51 x 100 | 100 | 75 | 50 | 35 |
| | 72 x 96 | - | 65 | 45 | - |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 96″, 100″ (Gauges: 0.098″ - 0.236″)
Widths: 48″, 51″, 72″ (Gauges: 0.098″ - 0.236″)

**Custom:** Minimum Width 30″, Maximum Length 240″

### Tolerances

Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

### Colors, Standard

Clear (Gauges: All)

## OPTIX® L-SERIES Edge-Lit

### EDGE LIT ACRYLIC SHEET

OPTIX L Edge Lit continuous cast acrylic sheet is manufactured using an exclusive light diffusion technology. When this sheet is combined with reflective tape and white backing, its lighting capabilities become optimally enhanced. LED, fluorescent or neon light sources may be used to create stunning displays or fixtures. OPTIX L-EL allows users to create ADA compliant signage for interior and exterior applications. The better the light source, the better the panel will illuminate. OPTIX L-EL is available in 0.118″, 0.157″, 0.236″ and 0.315″ thicknesses.

### APPLICATIONS INCLUDE:

Blade signs, framed signage, ADA compliant signs, displays, lighting fixtures and wayfinding



### Packaging

» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

### Masking

Standard Masking Configurations
F2 Clear Polyfilm Masking Two (2) Sides
B2 Blue Masking Two (2) Sides

| Case Packaging | | | | |
|---|---|---|---|---|
| Gauge | 0.118 | 0.157 | 0.236 | 0.315 |
| 54 x 100 | 80 | 60 | 40 | 30 |
| Sheet Size   108 x 108.25 | 35 | 25 | - | - |

**Items listed here are common stock items, but not guaranteed to be in stock –
Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes

Lengths: 100″, 108.25″ (Gauges: 0.118″ - 0.315″)
Widths: 54″, 108″ (Gauges: 0.118″ - 0.315″)

**Custom:** Minimum Width 30″, Maximum Length 240″

### Tolerances

Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

### Colors, Standard

Clear (Gauges: All)

## OPTIX® L-SERIES

## Ecoshade



## IR REFLECTIVE ACRYLIC SHEET

OPTIX L Ecoshade continuous cast sheet reflects more than 75% of infrared radiation present in sunlight. This IR reflective sheet reduces heat transmitted through windows and skylights in the summer and decreases heat loss in the winter. OPTIX L Ecoshade is a translucent sheet that changes from iridescent blue to gold when viewed at different angles.

OPTIX L Ecoshade is available in 0.118″– 0.177″ and can be used either for interior or exterior applications. Maximum length and width is 108″x 108.25″.

### APPLICATIONS INCLUDE:
Skylights, windows, doors and partitions

### Packaging
» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

### Masking
Standard Masking Configurations
F2 Clear Polyfilm Masking Two (2) Sides

| Case Packaging | | |
|---|---|---|
| Gauge | 0.118 | 0.177 |
| Sheet Size   108 x 108.25 | 35 | 25 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 108.25″ (Gauges: 0.118″ - 0.177″)
Widths: 108″ (Gauges: 0.118″ - 0.177″)

**Custom:** Minimum Width 30″, Maximum Length 240″

### Tolerances
Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

### Colors, Standard
ECO001 Iridescent White (Gauges: All)

# OPTIX® L-SERIES UTRAN

## UV LIGHT TRANSMITTING ACRYLIC SHEET

Optix L UTRAN is a continuous cast acrylic sheet that transmits UV light down to 280nm and can be formed into shapes. The high gloss surface is easy to clean and keep sterile. OPTIX L UTRAN also is half the weight of, and more impact resistant than glass.

## APPLICATIONS INCLUDE:

Indoor tanning beds, animal habitats, greenhouses



## Packaging
» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

## Masking
Standard Masking Configurations
B2 Blue Masking Two (2) Sides

| Case Packaging | | | | | |
|---|---|---|---|---|---|
| Gauge | 0.090 | 0.100 | 0.126 | 0.170 | 0.236 |
| Sheet Size  88 x 108.25 | 50 | 50 | 45 | 30 | 25 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

## Standard Sizes
Lengths: 108.25″ (Gauges: 0.090″ - 0.236″)
Widths: 88″ (Gauges: 0.090″ - 0.236″)

**Custom:** Minimum Width 30″, Maximum Length 240″

## Tolerances
Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

## Colors, Standard
Clear (Gauges: All)

## OPTIX L-SERIES
## Block

## OPTIX L BLOCK ACRYLIC SHEET

OPTIX L Block is cell cast acrylic ideal for chunky, ultra bright 3D characters and features optimized light transmission properties that maximize the economic and environmental benefits of LED technology. It is easy to fabricate and can be used with white or colored LEDs, to create exciting visual communications. OPTIX L Block offers guaranteed indoor and outdoor performance ideal for specialized, custom-designed installations.

### APPLICATIONS INCLUDE:
POP displays, indoor / outdoor signage and channel letters



### Packaging
» Weight per case: Varies per gauge
» Weight per pallet: 2,000 lbs.

### Masking
Standard Masking Configurations
MS-STP Clear Polyfilm Masking Two (2) Sides

| Case Packaging | |
|---|---|
| Gauge | 1.180 |
| Sheet Size   80 x 120 | 5 |

**Items listed here are common stock items, but not guaranteed to be in stock – Contact your Customer Service Representative to confirm stock availability**

### Standard Sizes
Lengths: 120″ (Gauge: 1.180″)
Widths: 80″ (Gauge: 1.180″)

### Colors, Standard
OPAL 1T77

### Tolerances
Width & Length, Standard: -0.118″ (Min) - +0.118″ (Max)

**OPTIX® L-SERIES** Frost



## FROSTED ACRYLIC SHEET

Optix L Frost cell cast acrylic is a cool, frosted surface in an exceptionally wide range of colors, making this translucent product suitable for a host of applications. Contemporary, dramatic, cool or cutting edge, Optix L Frost is one of the most versatile product offerings in our portfolio.

Optix L Frost cell cast product combines high performance characteristics and beautiful aesthetics that will set your imagination free!

» Cool frosted surface

» Modern contemporary appeal

» Resists surface marks and scratching

» Easy to shape, form and fabricate

» Retains frosted texture through thermoforming

## APPLICATIONS INCLUDE:

Lighting, signs, POP display

**Non-stock item –
Contact your Customer Service
Representative for a quote**

# PLASKOLITE

## A GLOBAL LEADER IN THE PRODUCTION OF THERMOPLASTIC SHEET
### FOUNDED IN 1950

Our Mission: to deliver superior thermoplastic sheet, coatings and polymers to the world, through long-lasting customer relationships and hands-on customer service.

## MANUFACTURING LOCATIONS



From our founding, PLASKOLITE strives to treat our employees, our customers, our community and the world, with kindness, dignity and respect. This drives our continuing effort to create sustainable products, in a sustainable manner, for future generations. This on-going commitment is expressed in the

**PLASKOLITE Sustainable Ecosystem:**

### QUICK FACTS

**STATUS:** Privately held

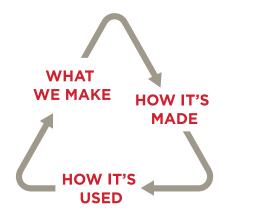**GLOBAL HEADQUARTERS:** Columbus, OH

**EMPLOYEES:** 1900 Worldwide

**MARKETS SERVED:** Signage, Lighting, Retail Display, Construction, Transportation, Security, Bat & Spa, Industrial, Architecture, Green Houses

# OUR PILLARS OF SUSTAINABILITY

## EACH CONTRIBUTES TO MAKING THE WORLD A BETTER PLACE



**WHAT WE MAKE**    Versatile, high-quality, durable thermoplastic materials...not single-use plastics

**HOW IT'S MADE**    How we make our products reflects our overall philosophy of continuous environmental improvement

**HOW IT'S USED**    Our thermoplastics play an important role in advancing human well-being, energy conservation and quality of life