

### MATERIAL PROPERTIES\*:

|                                                        |                                                                                                                         |
|--------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------|
| <b>Color:</b>                                          | White exterior and blue interior                                                                                        |
| <b>Composition:</b>                                    | PTFE with Aluminosilicate microspheres                                                                                  |
| <b>Fluid Services</b> (see chemical resistance guide): | Moderate concentrations of acids, some caustics, hydrocarbons, solvents, hydrogen peroxide, refrigerants and cryogenics |
| <b>Temperature<sup>1</sup>, °F (°C)</b>                |                                                                                                                         |
| Minimum:                                               | -450 (-268)                                                                                                             |
| Maximum:                                               | +500 (+260)                                                                                                             |
| Ideal Operating Limit:                                 | +400 (+204)                                                                                                             |
| <b>Pressure<sup>1</sup>, psig (bar):</b>               |                                                                                                                         |
| Minimum:                                               | Full Vacuum                                                                                                             |
| Maximum:                                               | 1200 (83)                                                                                                               |
| Ideal Operating Limit:                                 | 750 (52)                                                                                                                |
| <b>P x T (max.)<sup>1</sup>, psig x °F (bar x °C):</b> |                                                                                                                         |
| 1/32 and 1/16":                                        | 350,000 (12,000)                                                                                                        |
| 1/8":                                                  | 250,000 (8,600)                                                                                                         |
| <b>Flammability:</b>                                   | Will Not Support Flame                                                                                                  |
| <b>Bacterial Growth:</b>                               | Will Not Support                                                                                                        |
| <b>Meets Specifications:</b>                           | FDA (Food and Drug Administration) 21 CFR 177.1550                                                                      |

### TYPICAL PHYSICAL PROPERTIES\*:

|                   |                                                                                    |                          |             |
|-------------------|------------------------------------------------------------------------------------|--------------------------|-------------|
| <b>ASTM F36</b>   | <b>Compressibility, average, %:</b>                                                | 30-50 <sup>(3)</sup>     |             |
| <b>ASTM F36</b>   | <b>Recovery, %:</b>                                                                | 35 <sup>(3)</sup>        |             |
| <b>ASTM F38</b>   | <b>Creep Relaxation, %:</b>                                                        | 35 <sup>(3)</sup>        |             |
| <b>ASTM D1708</b> | <b>Tensile, Across Grain, psi (N/mm<sup>2</sup>):</b>                              | 1800 (12.4) <sup>3</sup> |             |
| <b>ASTM D792</b>  | <b>Specific Gravity:</b>                                                           | 1.65                     |             |
| <b>ASTM D1708</b> | <b>Modulus @ 100% Elongation, psi (N/mm<sup>2</sup>):</b>                          | 1300 (8.9) <sup>3</sup>  |             |
| <b>ASTM F433</b>  | <b>Thermal Conductivity (K), W/m<sup>2</sup>K (Btu·in./hr·ft.<sup>2</sup>·°F):</b> | N/A                      |             |
| <b>ASTM D149</b>  | <b>Dielectric Properties, range, volts/mil.</b>                                    |                          |             |
|                   | Sample conditioning                                                                | <u>1/16"</u>             | <u>1/8"</u> |
|                   | 3 hours at 250°F                                                                   | 301                      | -           |
|                   | 96 hours at 100% Relative Humidity:                                                | 221                      | -           |
| <b>ASTM F586</b>  | <b>Design Factors</b>                                                              | <u>1/16" &amp; Under</u> | <u>1/8"</u> |
|                   | "m" factor:                                                                        | 2.8                      | 3.7         |
|                   | "y" factor, psi (N/mm <sup>2</sup> ):                                              | 1400 (9.6)               | 2300 (15.9) |
| <b>ROTT</b>       | <b>Gasket Constants:</b>                                                           |                          |             |
|                   | 1/16"                                                                              | N/A                      |             |
|                   | 1/8"                                                                               | N/A                      |             |

### SEALING CHARACTERISTICS\*

|                                             | ASTM F37B – Fuel A               | DIN 3535 – Nitrogen                   |
|---------------------------------------------|----------------------------------|---------------------------------------|
| <b>Gasket Load, psi (N/mm<sup>2</sup>):</b> | 1000 (7)                         | 4640 (32)                             |
| <b>Internal Pressure, psig (bar):</b>       | 9.8 (0.7)                        | 580 (40)                              |
| <b>Leakage</b>                              | <b>0.33<sup>(3)</sup> ml/hr.</b> | <b>&lt;0.015<sup>(3)</sup> cc/min</b> |

#### Notes:

\* This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results in accordance with ASTM F-104; properties

<sup>1</sup> Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum P x T, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

<sup>3</sup> Test results based on 1/16" thick material

8/15/2023