

CTG PRODUCT SHEET

SHEET MATERIAL

Acetate
Black Rubber Sponge (Open Cell)
Black Rubber Lcoth Insterted
Black Rubber Cloth Inserted
Buna-N 50, 60 and 90 Durometer
Buna-N (White) 50-65 Durometer
Buna-N Nylon Inserted
Butyl
Chipboard
Cork
Cork and Buna-N

Cork and Neoprene
Cork & Syn. Rubber Adhesive Backed
Compressed Non-Asbestos
EPDM
Felt
Fibre-Cork
Fiberglass Cloth
Fiberglass Wire inserted Tacky Cloth
Flexible Graphite
Gum Rubber
GRI/Durlon 8500

GRI/Durlon 9000
Hypalon
Lead
Leather
Koroseal
Neoprene 40 and 60 Durometer
Neoprene Cloth Insterted
Neoprene Sponge (Closed Cell)
Neoprene Tank Gasket
Non-Asbestos
Nylon

Plant (Vegetable) Fiber
Polyethylene
Red Rubber
Rubber matting
Silicone 50 and 70 Durometer
Silicone Sponge
PTFE / PTFE Glass Filled
Viton®
Vulcanized Fiber-Bone (Red)
Urethane

PLASTICS MACHINING

OEM
From Sample or Drawing
CNC Lathe
CNC Milling
0" - 24" Sizes
Complex Geometries
Tightest Tolerances
Production Runs
Custom Batches
Application Development
V-Rings
O-Rings

PLASTICS

Acetal / Delrin®
CPVC
Kel-F®
Kynar®
MD Nylon
Nylon
PEEK®
Polycarbonate

Polypropylene
PTFE
PTFE-Filled
PVC
Ryton®
TFM®
UHMW
Vespel®

RUBBER MOLDING

Energizer™
O-Rings
Lip Seals
High Purity Applications
Rail Car
Tank Truck
Private Branding
In-House Mold Making
PTFE / Elastomer Bonding
Metal / Elastomer Bonding

ELASTOMER COMPOUNDS

Aflas®
Nitrile
Butyl
EPDM
Hypalon
Neoprene
Silicone
Viton® A, B, and GF
Viton® Extreme™

O-RINGS *(U.S. Std. Sizes)*

Buna-N 70 and 90 Durometer
E.P.R. 70 Durometer
Neoprene 70 Durometer
Silicone 70 Durometer
PTFE
Viton® (Black) 75 and 90
Viton® (Brown) 75 Durometer
Viton Extreme™ 75 and 90

SPECIAL SIZE O-RINGS MADE TO SPECIFICATIONS IN:

Inch sizes
Metric sizes

EXTRUSIONS

EPDM
Neoprene (White)
Neoprene Sponge (Closed Cell)
Silicone (Gray)
Square and Rectangular
Viton®

SPIRALWOUNDS

Standard sizes stocked
through 24" in 304 & 316SS

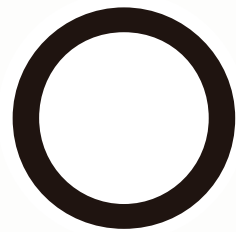
All materials and sizes
quoted upon Request

MISC

Adhesives
Alpax Tools
Clamps
Couplings for Hose
Gauges
Glass
O-Ring Splice Kits
RTV Silicone
Sealants
Tapes
PTFE Tape



**LOW TORQUE
ENERGIZER
GASKETS**



ptions – Tired of having to settle for the only product your manufacturer offers? We're changing all that. Our question to you is, "Exactly what do you need?" CTG has always provided the finest low torque gaskets available. And now we've created a proprietary molding process for the Energizer Gasket designed to meet your specific requirements for plastic, FRP or steel piping applications. Need a combination of features? No problem. Not sure what you need? Just give us a call. For all the options look no further than CTG.

GENERAL INFORMATION

Designed specifically for FRP and plastic piping systems
 Minimal torque required to seal
 100% pure virgin TFM or PTFE sealing surface
 Totally Bonded Elastomer and TFM or PTFE Construction
 65 to 75 Durometer Elastomer
 Typical compression set values of 15% or better

Continuous, no "seam," radius style TFM or PTFE envelope
 Thickest available TFM or PTFE shield without sacrificing compression set properties
 Available in Old Standard sizes 1/2" to 24"
 Available upon request in New Standard sizes 1/2" to 12"
 For temperatures of -40° F (-40° C) to 300° F (149° C)
 Totally non-asbestos construction
 Conveniently manufactured in Houston, Texas

SHIELD CROSS SECTION



DIMENSIONS (IN INCHES)

ET	ET	ET	ET	ET	ET	ET	ET	ET
NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT	NRT
SIZE	D1	D2	D3	D4	D5	D6	BH	N
1/2*	0.71	0.94	1.14		2.38	3.50	0.62	4
3/4*	0.86	1.30	1.77		2.75	3.88	0.62	4
1	1.16	1.53	2.03		3.125	4.25	0.62	4
1 1/4*	1.25	1.75	2.33		3.50	4.63	0.62	4
1 1/2	1.72	2.13	2.66		3.875	5.00	0.62	4
2	2.16	2.53	3.03	3.53	4.75	6.00	0.75	4
2 1/2*	2.50	3.02	3.76	4.01	5.50	7.00	0.75	4
3	3.15	3.50	4.00	4.50	6.00	7.50	0.75	4
3 1/2*	3.46	3.96	4.57	5.14	7.00	8.50	0.75	8
4	4.06	4.50	5.06	5.63	7.50	9.00	0.75	8
5*	4.97	5.48	6.07	6.67	8.50	10.00	0.88	8
6	6.14	6.63	7.25	7.88	9.50	11.00	0.88	8
8	8.10	8.36	9.25	9.88	11.75	13.50	0.88	8
10	10.13	10.66	11.36	12.06	14.50	16.00	1.00	12
12	12.22	12.91	13.75	14.59	17.00	19.00	1.00	12
14*	13.87	14.64	15.37	16.10	18.75	21.00	1.12	12
16*	15.81	16.46	17.26	18.01	21.25	23.50	1.12	16
18*	17.90	18.67	19.30	19.89	22.75	25.00	1.25	16
20*	19.96	20.89	21.51	22.12	25.00	27.50	1.25	20
24*	23.94	24.80	25.42	25.98	29.50	32.00	1.37	20

* Indicates sizes not available with a tab.

COMMON INDUSTRIES

Chemical Processing
 Mining
 Offshore Drilling Rigs
 Pulp & Paper
 Semiconductor
 And many others

COMMON CHEMICAL APPLICATIONS

Acids
 Hydrochloric
 Sulfuric
 Caustics
 Sodium Hydroxide
 Potassium Hydroxide
 Calcium Hydroxide
 Water
 De-ionized
 Potable
 Other
 Hydrocarbons
 Chlorine Services

MIN. RECOMMENDED SEALING BOLT TORQUE FT/LBS

ET	ET		
NRT	NRT		
SIZE	FT/LBS	SIZE	FT/LBS
1/2	9	1/2	7
3/4	11	3/4	9
1	14	1	10
1 1/4	16	1 1/4	12
1 1/2	19	1 1/2	14
2	32	2	24
2 1/2	43	2 1/2	32
3	48	3	36
3 1/2	31	3 1/2	22
4	32	4	24
5	43	5	30
6	47	6	32
8	69	8	50
10	75	10	56
12	98	12	73

Above values based on 150 PSI.
 Above values may change depending on pressure, temp and service.
 Additional technical information available upon request.



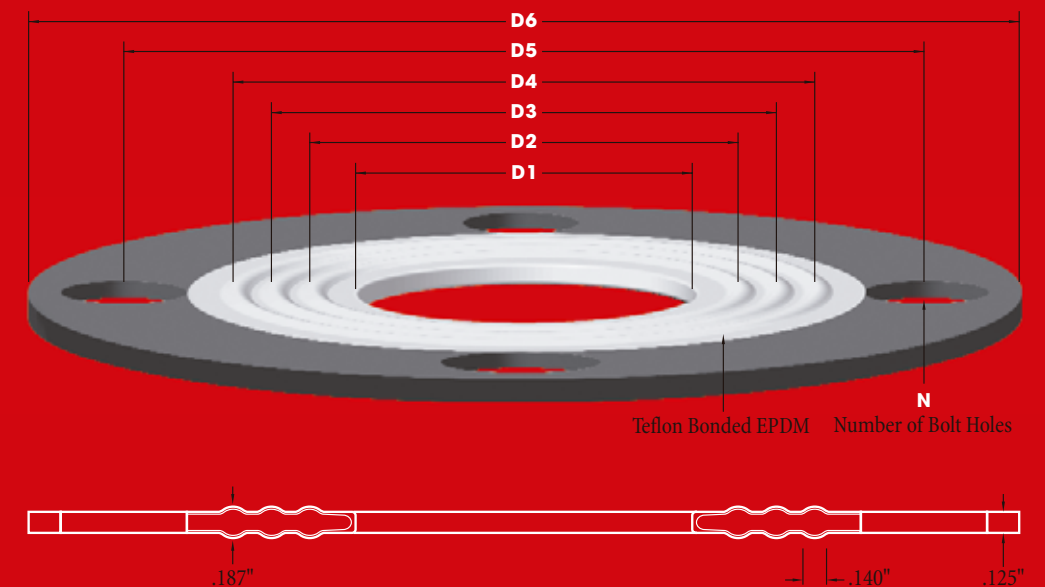
ET ELASTOMER & TFM OR PTFE

FEATURES

Increased PTFE thickness for maximum protection
 3 Sealing Ribs
 Available upon request in New Standard sizes

FLANGE TYPES

Contact Molded FRP
 Flat faced
 No ribs or serrations
 Hand Lay up FRP



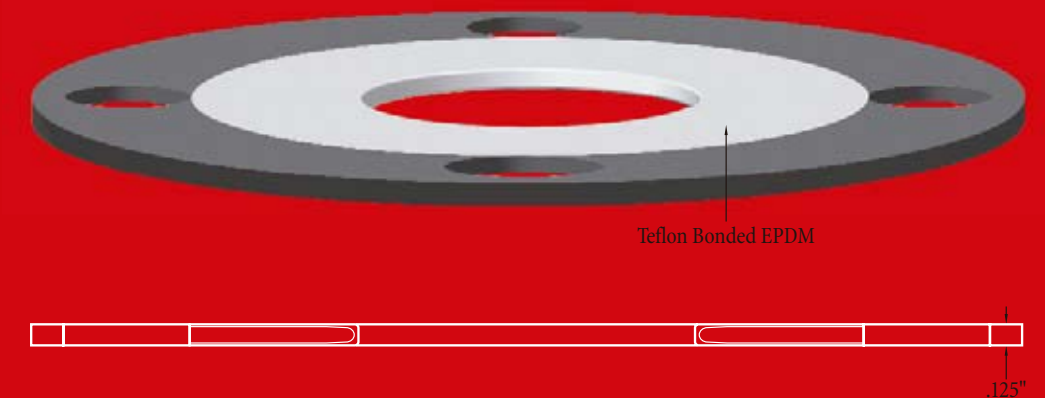
NRT ELASTOMER & TFM OR PTFE / NO RIBS

FEATURES

No rib design
 Won't interfere with raised (serrated) portion of flange

FLANGE TYPES

Cast & Ductile Iron
 CPVC, PVC
 Fibercast FRP
 Machine Made FRP
 Press Molded FRP
 PVDF
 Serrated or ribbed
 Steel



ER & NRR 100% ELASTOMER VERSIONS OF ABOVE MODELS

Elastomer material options include:

Aflas®
 Butyl
 EPDM
 Nitrile
 Viton® A, B, and GF
 Viton® Extreme™

Please call for material availability

