

## Technical Data Sheet

### MATERIAL PROPERTIES\*:

Colour: Off White  
 Composition: PTFE with barium sulphate  
 Fluid Services: Strong caustics, moderate acids, chlorine, gases, water, steam, cryogenics, hydrocarbons and aluminium fluoride

Temperature<sup>1</sup>, °F (°C)

Minimum: -450 (-268)  
 Maximum: +500 (+260)

Pressure<sup>1</sup>, Maximum, psig (bar):

1200 (83)

P x T (max.)<sup>1</sup>, psig x °F (bar x °C):

1/32 and 1/16": 350,000 (12,000)  
 1/8": 250,000 (8,600)

Flammability:

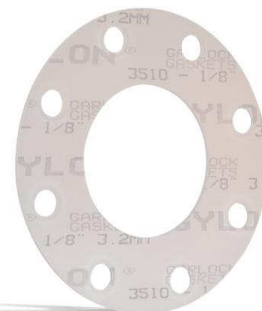
Will Not Support Flame

Bacterial Growth:

Will Not Support

Meets Specifications:

ABS (American Bureau of Shipping), FDA (Food and Drug Administration) 21 CFR 177.1550



### TYPICAL PHYSICAL PROPERTIES\*:

ASTM F36	Compressibility, average, %:	4-10
ASTM F36	Recovery, %:	40
ASTM F38	Creep Relaxation, %:	11
ASTM D1708	Tensile, Across Grain, psi (N/mm <sup>2</sup> ):	2000 (13.8)
ASTM D792	Specific Gravity:	2.80
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm <sup>2</sup> ):	1400 (9.6)
ASTM F433	Thermal Conductivity (K), W/m <sup>2</sup> K (Btu.·in./hr.·ft. <sup>2</sup> ·°F):	0.29-0.38 (2.00-2.65)

### SEALING CHARACTERISTICS\*

	ASTM F37B – Fuel A	DIN 3535 – Nitrogen
Gasket Load, psi (N/mm <sup>2</sup> ):	1000 (7)	4640 (32)
Internal Pressure, psig (bar):	9.8 (0.7)	580 (40)
Leakage	0.04 ml/hr.	<0.015 cc/min

Notes: \* This is a general guide and should not be the sole means of selecting or rejecting this material. This data sheet covers basic information, for more comprehensive information, please contact us. ASTM test results in accordance with ASTM F-104; properties 1 Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum PxT, consult us. Minimum temperature rating is conservative. <sup>2</sup> Indicates that the current arced around and not through the gasket. Dielectric strength will be higher than published.



Certificate Number: 14352  
 ISO 9001



Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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