

Technical Data Sheet

MATERIAL PROPERTIES*:

Colour:	White exterior and blue interior
Composition:	PTFE with Aluminosilicate microspheres
Fluid Services:	Moderate concentrations of acids, some caustics, hydrocarbons, solvents, hydrogen peroxide, refrigerants and cryogenics
Temperature¹, °F (°C)	Minimum: -450 (-268) Maximum: +500 (+260)
Pressure¹, Maximum, psig (bar):	1200 (83)
P x T (max.)¹, 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:	FDA (Food and Drug Administration) 21 CFR 177.1550



TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:	30-50 ⁽³⁾
ASTM F36	Recovery, %:	35 ⁽³⁾
ASTM F38	Creep Relaxation, %:	35 ⁽³⁾
ASTM D1708	Tensile, Across Grain, psi (N/mm ²):	1800 (12.4) ⁽³⁾
ASTM D792	Specific Gravity:	1.65
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm ²):	1300 (8.9) ⁽³⁾
ASTM F433	Thermal Conductivity (K), W/m ² K (Btu.·in./hr.·ft. ² ·°F):	N/A

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	DIN 3535 – Nitrogen
Gasket Load, psi (N/mm²):	1000 (7)	4640 (32)
Internal Pressure, psig (bar):	9.8 (0.7)	580 (40)
Leakage	0.33 ⁽³⁾ ml/hr.	<0.015 ⁽³⁾ 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. ² For flat face flanges, a minimum compressive stress of 1500psi (103N/mm²) is recommended on the contacted gasket area for 150psig (10.4bar) liquid service. Consult with the flange manufacturer to confirm that adequate compressive stress is available. ³ Test results based on 1/16" thick material

Asbestos Free



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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