

Technical Data Sheet

MATERIAL PROPERTIES*:

Colour:	Gylon®3500
Composition:	PTFE with silica
Fluid Services:	Strong acids (except hydrofluoric), steam, solvents, hydrocarbons, chlorine 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:	ABS (American Bureau of Shipping), FDA (Food and Drug Administration) and USDA (US Department of Agriculture)



TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:	7-12
ASTM F36	Recovery, %:	40
ASTM F38	Creep Relaxation, %:	18
ASTM D1708	Tensile, Across Grain, psi (N/mm ²):	2000 (13.8)
ASTM D792	Specific Gravity:	2.10
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm ²):	1600 (11.0)
ASTM F433	Thermal Conductivity (K), W/m ² K (Btu. ·in./hr. ·ft.2 ·°F):	0.36-0.45 (2.50-3.15)

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	0.22 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.

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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