

GYLON® Style 3501-E

MATERIAL PROPERTIES*:

Color:	Brick
Composition:	PTFE with silica
Fluid Services (see chemical resistance guide):	Strong acids (except hydrofluoric), steam, solvents, hydrocarbons, chlorine and cryogenics
Temperature¹, °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Ideal Operating Limit:	400°F (204°C)
Pressure¹, psig (bar):	
Minimum:	Full Vacuum
Maximum:	1200 (83)
Ideal Operating Limit:	750 (52)
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:	

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/mm²):	2000 (13.8)
ASTM D792	Specific Gravity:	2.10
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm²):	1600 (11.0)
ASTM F433	Thermal Conductivity (K), W/m²K (Btu.in./hr.ft.².°F):	2.88 (19.97)

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. 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 Garlock Applications Engineering. Minimum temperature rating is conservative.

8/15/2023