

SF 2401 is a high quality synthetic fiber sheet with an NBR binder, excellent for sealing steam, water, gases, oils, mild solvents and/or alkalis. The values given below are typical for 1/16" thick material, except as otherwise noted.

SERVICE

Max T (at min. thickness)	662°F (350°C)
Max P (at min. thickness)	1450 psi (100 bar)
pH Range	3 - 11

PHYSICAL PROPERTIES

Color	Lite Green
Density	121 lb/ft ³ (1.94 g/cc)
Sheet Thickness	1/64" - 1/8" (0.40 mm - 3.20 mm)
Sheet Size	60" x 60", 60" x 120" (1.50 m x 1.50 m, 1.50 m x 3.00 m)

MECHANICAL PROPERTIES (ASTM F152)

Cross Grain Tensile	1508 psi (10.4 MPa)
With Grain Tensile	4090 psi (28.2 MPa)

IMMERSION PROPERTIES (ASTM F146)

Thickness Increase	IRM 903 @ 300°F	1%
	Fuel B @ 70 - 85°F	10%
Weight Increase	IRM 903 @ 300°F	7%
	Fuel B @ 70 - 85°F	11%

SEALING PROPERTIES

ASTM F36	Compressibility	6%
	Recovery	60%
ASTM F37A	Fuel A @ 10 psi & 1000 psi Gasket Stress	0.6 mL/hr
ASTM F38	Creep Relaxation	27%
BS 7531	Nitrogen Gas Permeability	0.171 mL/min



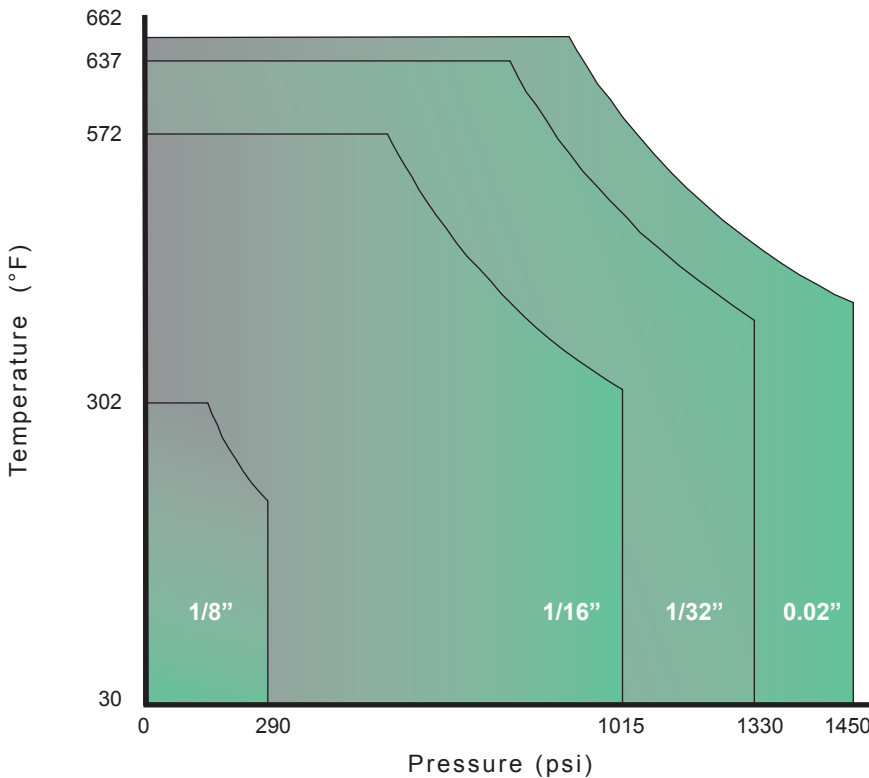
DESIGN INFORMATION

Gasket Constants	m	3.2
	y	2900 psi (20.0 MPa)
PVRC Constants (1/16" thick)	Gb	N/A
	a	N/A
	Gs	N/A
Tpmax	N/A	
Recommended Surface Finish	125 - 250 µin (3.2 - 6.3 µm)	
Dielectric Strength	4.1 kV/mm	
ASTM Callout	71120E1E3M4 †	† some digits may be chosen differently

PRESSURE CONTAINMENT AND TEMPERATURE

SF 2401 Thickness (in.)	0.020	1/32	1/16	1/8
Max. Temperature (°F)	662	637	572	302
Max. Pressure (psi)	1450	1330	1015	290

NOTE: Above pressure/temperature cannot be used simultaneously.



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