Compressed Fiber Sheet

SF 2420

Product Profile

SF 2420 is a high quality aramid fiber reinforced sheet with SBR binder, excellent for sealing steam, water, gases, oils, mild solvents and/or alkalis. The data given below is based on 1/32" sheet, except as otherwise noted.

Service

Max T (at min. thickness)	752°F (400°C)
Max P (at min. thickness)	1450 psi
pH Range	3 - 11

Physical Properties

Color	Off-White
Density	112 lb/ft^3 (1.80 g/cc)
Sheet Thickness	1/64" - 1/8" (0.50 mm - 3.20 mm)
Sheet Size (also available in full rolls)	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	1910 psi (13.2 MPa)
With Grain Tensile	4350 psi (30.0 MPa)

Immersion Properties (ASTM F146)

Thickness Increase	Oil #3 @ 300°F	1.9%
	Fuel B @ 70 - 85°F	1.3%
Weight Increase	Oil #3 @ 300°F	6.4%
	Fuel B @ 70 - 85°F	3.3%

Sealing Properties

ASTM F36J	Compressibility	7.5%
	Recovery	52%
ASTM F37A	Fuel A @ 50 psi & 1000 psi Gasket Stress	0.50 mL/hr
ASTM F38	Creep Relaxation	13.7%
BS 7531	Nitrogen Gas Permeability	0.02 mL/min

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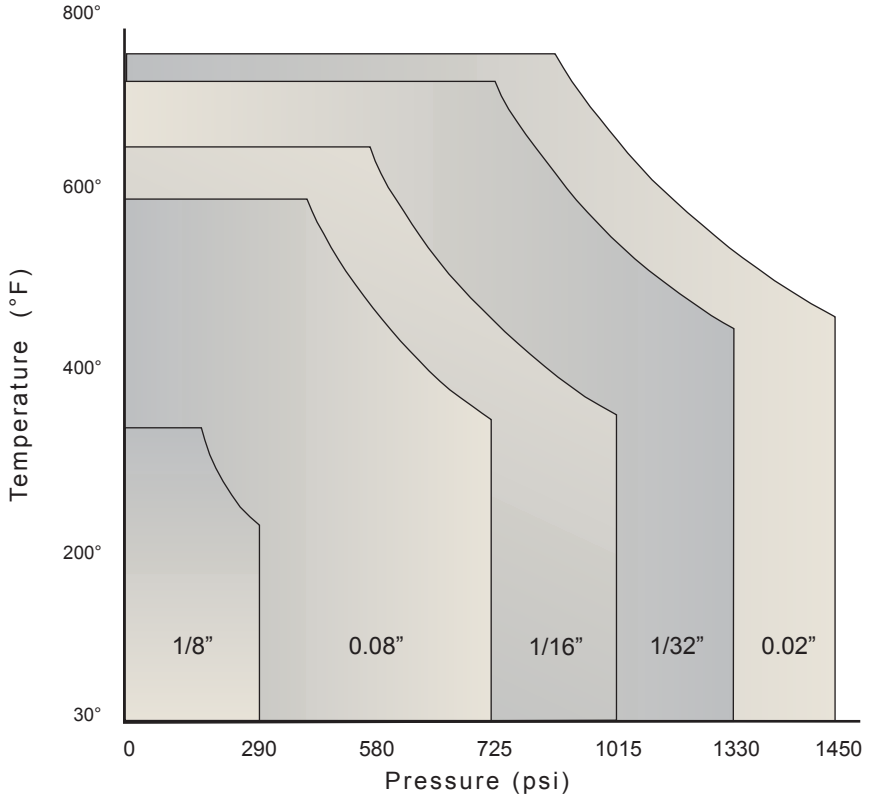
Design Information

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	4.2 kV/mm	
ASTM Callout	711110M5 †	*† some digits may be chosen differently*

Pressure Containment and Temperature

SF 2420 Thickness (in.)	0.020	1/32	1/16	0.080	1/8
Max. Temperature (ºF)	752	725	644	599	356
Max. Pressure (psi)	1450	1330	1015	725	290

NOTE: Above pressure/temperature cannot be used simultaneously.



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