

SF 3300 is a superior performance aramid/glass fiber sheet reinforced with an NBR binder for use in general industrial applications. The data given below is based on a 1/32" thick sheet, except as otherwise noted.

SERVICE

Max T (at min. thickness)	824°F (440°C)
Max P (at min. thickness)	2030 psi (14.0 MPa)
pH Range	3 - 11

PHYSICAL PROPERTIES

Color	Light Yellow
Density	96 lb/ft ³ (1.54 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	2900 psi (20.0 MPa)
With Grain Tensile	8550 psi (59.0 MPa)

IMMERSION PROPERTIES (ASTM F146)

Thickness Increase	Oil #3 @ 300°F	4%
	Fuel B @ 70 - 85°F	6%
Weight Increase	Oil #3 @ 300°F	11%
	Fuel B @ 70 - 85°F	15%

SEALING PROPERTIES

ASTM F36J	Compressibility	11%
	Recovery	65%
ASTM F37A	Fuel A @ 50 psi & 1000 psi Gasket Stress	1.0 mL/hr.
ASTM F38	Creep Relaxation	16.4%
BS 7531	Nitrogen Gas Permeability	0.04 mL/min



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DESIGN INFORMATION

Gasket Constants	m	3.7
	y	3335 psi (23.0 MPa)
PVRC Constants (1/16" thick)	G _b	2360 psi
	a	0.190
	G _s	50.3 psi
T _{pmax}	27800	
Recommended Surface Finish	125 - 250 μin (3.2 - 6.3 μm)	
Dielectric Strength	5.6 kV/mm	
ASTM Callout	712120E32M7 †	<i>† some digits may be chosen differently</i>

PRESSURE CONTAINMENT AND TEMPERATURE

SF 3300 Thickness (in.)	0.020	0.030	1/16	0.080	1/8
Max. Temperature (°F)	824	806	716	662	392
Max. Pressure (psi)	2030	1800	1305	1015	435

NOTE: Above pressure/temperature cannot be used simultaneously.

