

Style 2500

MATERIAL PROPERTIES*:

Color:	Green
Composition:	Aramid fiber with nitrile binder
Fluid Services (see chemical resistance guide):	Water, Saturated steam ⁵ , aliphatic hydrocarbons, oils & gasoline
Temperature¹, °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Pressure¹, Maximum, psig (bar):	1000 (70)
P x T (max.)¹, psig x °F (bar x °C):	
1/32 and 1/16":	250,000 (8,600)
1/8"	150,000 (5,100)
Meets Specifications:	Australian standard AS/NZS 4020-2005 to 40°C

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:	7%
ASTM F36	Recovery, %:	40%
ASTM F38	Creep Relaxation, %:	30%
ASTM F152	Tensile, Across Grain, psi (N/mm²):	1250 (8.6)
ASTM F1315	Density, lbs./ft.³ (grams/cm³):	120 (1.9)
ASTM D149	Dielectric Properties, range, volts/mil.	
	Sample conditioning	<u>1/16"</u>
	3 hours at 250°F	350+ ⁽³⁾
ASTM F586	Design Factors	<u>1/16" & Under</u>
	"m" factor:	6.0 ⁽⁴⁾
	"y" factor, psi (N/mm ²):	2000 (13.8)

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	ASTM F37B - Nitrogen
Gasket Load, psi (N/mm²):	500 (3.5)	3000 (20.7)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)
Leakage	1.0 ml/hr	2.0 ml/hr

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 P x T, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

³ Indicates current arced around and not through gasket. Dielectric higher than indicated.

⁴ This "M" value, based on ambient temperature leakage with nitrogen, is high. Field experience has shown that lower values would be workable in elevated temperatures. Consult Applications Engineering.

⁵ These styles are appropriate for steam service when adequately compressed. Minimum recommended assembly stress = 4,800psi. Preferred assembly stress = 6,000-10,000psi. Gasket thickness of 1/16" strongly preferred. Retorque the bolts/studs prior to pressurizing the assembly. For saturated steam above 150psig or superheated steam, consult Garlock Engineering.

REV: 10/11/2016