

## Style 2500

### MATERIAL PROPERTIES\*:

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

### TYPICAL PHYSICAL PROPERTIES\*:

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

### SEALING CHARACTERISTICS\*

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

#### 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

<sup>1</sup> 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.

<sup>3</sup> Indicates current arced around and not through gasket. Dielectric higher than indicated.

<sup>4</sup> 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.

<sup>5</sup> 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