

## Style 2920

### MATERIAL PROPERTIES\*:

<b>Color:</b>	Off-white
<b>Composition:</b>	Aramid fibers with a SBR binder
<b>Fluid Services</b> (see chemical resistance guide):	Water, saturated steam <sup>2</sup> and inert gases
<b>Temperature</b> <sup>1</sup> , °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Maximum:	+700 (+371)
<b>Pressure</b> <sup>1</sup> , Maximum, psig (bar):	1000 (70)
<b>P x T (max.)</b> <sup>1</sup> , psig x °F (bar x °C):	
1/32 and 1/16":	350,000 (12,000)
1/8"	250,000 (8,600)

### TYPICAL PHYSICAL PROPERTIES\*:

<b>ASTM F36</b>	<b>Compressibility</b> , range, %:	10
<b>ASTM F36</b>	<b>Recovery</b> , %:	50
<b>ASTM F38</b>	<b>Creep Relaxation</b> , %:	23
<b>ASTM F152</b>	<b>Tensile</b> , Across Grain, psi (N/mm <sup>2</sup> ):	1500 (10.3)
<b>ASTM F1315</b>	<b>Density</b> , lbs./ft. <sup>3</sup> (grams/cm <sup>3</sup> ):	105 (1.68)
<b>ASTM F433</b>	<b>Thermal Conductivity (K)</b> , W/m <sup>2</sup> K (Btu.in./hr.ft. <sup>2</sup> .°F):	0.29-0.38 (2.00-2.65)
<b>ASTM D149</b>	<b>Dielectric Properties</b> , range, volts/mil.	
	Sample conditioning	<u>1/16"</u> <u>1/8"</u>
	3 hours at 250°F	442 <sup>(3)</sup> -
	96 hours at 100% Relative Humidity:	- -

### SEALING CHARACTERISTICS\*

	<b>ASTM F37B – Fuel A</b>	<b>ASTM F37B - Nitrogen</b>
<b>Gasket Load</b> , psi (N/mm <sup>2</sup> ):	500 (3.5)	3000 (20.7)
<b>Internal Pressure</b> , psig (bar):	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>2</sup> These styles are not preferred choices for steam service, but are successful 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.