



Engineered Industrial Products  
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## Garlock BLUE-GARD® Style 3000

<p>Material: Aramid Fiber w/ Nitrile Binder          Color: Blue          Fluid Services: Water, Aliphatic Hydrocarbons,                            Oils, Gasoline, Mild Acids and                            Alkalies</p>	<p>Temperature: min :-40°F (40°C)          (cont. oper.): 400°F (205°C)          (max.): +700°F (371°C)          Pressure (max.): 1000 psi (70 bar)          P x T (max.)<sup>1</sup>: 350,000 (12,000) 1/16" and 1/32"                                          250,000 (8,600) 1/8"</p>
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<u>TEST METHOD</u>	<u>PHYSICAL PROPERTIES</u>	<u>TYPICAL</u>
<b>RESULTS</b>		
ASTM F-37B	Sealability ml/hr. Leakage, <b>ASTM Fuel A (isooctane):</b> Gasket Load, 500 psi (3.5 N/mm <sup>2</sup> ) Internal Pressure, 9.8 psig (.7 bar) <b>Nitrogen:</b> Gasket Load, 3000 psi (20.7 N/mm <sup>2</sup> ) Internal Pressure, 30 psig (2 bar)	0.2        0.6
ASTM F-36	<b>Recovery (%) :</b>	50
ASTM F-36	<b>Compressibility, (%) :</b>	7-17
ASTM F-38	<b>Creep Relaxation, (%) :</b> 22 hrs. @ 212°F (100°C)	20.5
ASTM F-146	<b>Fluid Resistance After Five Hours Immersions</b> <u>ASTM #1 Oil @ +300°F (+150°C)</u> Thickness Increase Range, % : Weight Increase, Maximum, % : <u>ASTM IRM #903 Oil @ +300° F(+150°C)</u> Thickness Increase Range, % : Tensile Loss, Maximum, % : Weight Increase, Maximum, % : <u>ASTM Fuel A @ 70 - 85°F (20-30°C)</u> Thickness Increase Range, % : Weight Increase, Maximum, % : <u>ASTM Fuel B @ 70 - 85°F(20-30°C)</u> Thickness Increase Range, % : Weight Increase, Maximum, % :	0-5% 8% 0-5% 35% 20% 0-5% 8% 0-10% 15%
ASTM F-152	<b>Tensile Strength (psi)</b> Across Grain, psi (N/mm <sup>2</sup> ):  <b>Density, lbs./ft.<sup>3</sup> (grams/cm<sup>3</sup>):</b>	2250 15  100 (1.60)
DIN 3535 Part 4	<b>Gas Permeation, cc/min.:</b> <b>Nitrogen:</b> Internal pressure: 580 psig (40 bar) Gasket Load: 4640 psi (32 N/mm <sup>2</sup> )	.05

NOTE: This is a general guide and should not be the sole means of selecting or rejecting this material. ASTM test results are in accordance with ASTM 104; properties based on 1/32" (0.8 mm) sheet thickness (except as noted).  
<sup>1</sup>P x T, max. = psig x °F (bar x °C)