



Garlock BLUE-GARD® Style 3000

Material: Aramid Fiber w/ Nitrile Binder	Temperature: min :-40°F (40°C)
Color: Blue	(cont. oper.): 400°F (205°C)
Fluid Services: Water, Aliphatic Hydrocarbons,	(max.): +700°F (371°C)
Oils, Gasoline, Mild Acids and	Pressure (max.): 1000 psi (70 bar)
Alkalies	P x T (max.) ¹ : 350,000 (12,000) 1/16" and 1/32"
	250,000 (8,600) 1/8"

<u>TEST METHOD</u>	<u>PHYSICAL PROPERTIES</u>	<u>TYPICAL</u>
<u>RESULTS</u>		
ASTM F-37B	Sealability ml/hr. Leakage, ASTM Fuel A (isooctane): Gasket Load, 500 psi (3.5 N/mm ²) Internal Pressure, 9.8 psig (.7 bar) Nitrogen: Gasket Load, 3000 psi (20.7 N/mm ²) Internal Pressure, 30 psig (2 bar)	0.2 0.6
ASTM F-36	Recovery (%) :	50
ASTM F-36	Compressibility, (%) :	7-17
ASTM F-38	Creep Relaxation, (%) : 22 hrs. @ 212°F (100°C)	20.5
ASTM F-146	Fluid Resistance After Five Hours Immersions <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	Tensile Strength (psi) Across Grain, psi (N/mm ²): Density, lbs./ft.³ (grams/cm³):	2250 15 100 (1.60)
DIN 3535 Part 4	Gas Permeation, cc/min.: Nitrogen: Internal pressure: 580 psig (40 bar) Gasket Load: 4640 psi (32 N/mm ²)	.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).
¹P x T, max. = psig x °F (bar x °C)