



Please check with All Custom Gasket for current lead times and availability

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Garlock BLUE-GARD® 3000

MATERIAL PROPERTIES*

Color:	Blue
Composition:	Aramid fibers with a nitrile binder
Fluid Services¹:	Water, aliphatic hydrocarbons, oils and gasoline
Temperature², °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Maximum:	+700 (+371)
Pressure², Maximum, psig (bar):	1000 (70)
P x T (max.)², psig x °F (bar x °C)	
1/32 and 1/16":	350,000 (12,000)
1/8":	250,000 (8,600)
Meets Specification:	ABS (American Bureau of Shipping), WRC BS 6920 and BS 7531 Grade Y

TYPICAL PHYSICAL PROPERTIES*

ASTM F36	Compressibility, range, %:	7-17
ASTM F36	Recovery, %:	50
ASTM F38	Creep Relaxation, %:	21
ASTM F152	Tensile, Across Grain, psi (N/mm²):	2250 (15)
ASTM F1315	Density, lbs./ft.³ (grams/cm³):	100 (1.60)
ASTM F433	Thermal Conductivity (K), W/m²K (Btu.in./hr.ft.².°F):	0.29-0.38 (2.00-2.65)
ASTM D149	Dielectric Properties, range, volts/mil.	
	Sample conditioning	1/16" 1/8"
	3 hours at 250°F:	396 ⁽³⁾ -832 257 ⁽³⁾ -363
	96 hours at 100% Relative Humidity:	271 142
ASTM F586	Design Factors	1/16" & Under 1/8"
	"m" factor:	4.2 5.2
	"y" factor, psi (N/mm ²):	3050 (21.0) 4400 (30.3)
ASTM F104	Line Call Out:	F712102A9B4E22K5L101M5 ⁽⁴⁾

SEALING CHARACTERISTICS*

	ASTM F37B Fuel A	ASTM F37B Nitrogen	DIN 3535- 4 Gas Permeability
Gasket Load, psi (N/mm²):	500 (3.5)	3000 (20.7)	4640 (32)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)	580 (40)
Leakage	0.2 ml/hr.	0.6 ml/hr.	0.05 cc/min

IMMERSION PROPERTIES* - ASTM F146 Fluid Resistance after Five Hours

	ASTM #1 Oil 300°F (150°C)	ASTM IRM #903 300°F (150°C)	ASTM Fuel A 70-85°F (20-30°C)	ASTM Fuel B 70-85°F (20-30°C)
Thickness Increase, (%)	0-5	0-15	0-5	0-10
Weight Increase, (%)	<8	<20	<8	<15
Tensile Loss, (%)	-	<35	-	-

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Disclaimer: The above values are typical properties and are provided for information only. They should not be used to set specification requirements. It is up to the end user to determine whether the material is suitable for the intended application.