



Garlock® Style 3400 **BLUE-GARD® Gasketing**

Material: Aramid Fiber w/SBR Binder
 Color: Grey-Black
 Fluid Services³: Water, Saturated Steam,
 Inert Gases

Minimum Temperature¹: -100°F(-75°C)
 Continuous Operating Temp.¹: 400°F (205°C)
 Maximum Temperature¹: +700°F (371°C)
 Pressure, Max.¹: 1200 psi (83 bar)
 P x T, Max.^{1,2}: 350,000 (12,000) 1/32" & 1/16"
 250,000 (8,600) 1/8"

<u>TEST METHOD</u>	<u>TYPICAL PHYSICAL PROPERTIES</u>	<u>STYLE 3400</u>
ASTM F-37	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)	0.1 0.4
ASTM F-36	Recovery, min. (%) :	50
ASTM F-36	Compressibility, (%) range :	7-17
ASTM F-38	Creep Relaxation, (%) :	18.4
Method B	22 hrs. @ 212° F (100° C)	
ASTM F-146	Fluid Resistance After Five Hours Immersions <u>ASTM #1 Oil @ +300° F</u> Thickness Increase Range (%): Weight Increase, Maximum (%): <u>ASTM IRM 903 Oil @ +300° F</u> Thickness Increase Range (%): Tensile Loss, Maximum (%): <u>ASTM Fuel A @ 70 - 85° F</u> Thickness Increase Range (%): Weight Increase, Maximum (%): <u>ASTM Fuel B @ 70 - 85° F</u> Thickness Increase Range (%): Weight Increase, Maximum (%):	0-10 20 15-30 70 0-15 25 5-20 30
ASTM F-152	Tensile Strength (psi) Across Grain, psi (N/mm ²): Density, Lbs./Ft.³ (grams/cm³):	2250 (15 MPa) 100 (1.60)

ASTM F104 Line Callout - (Based on 1/32" thickness) F712900A9B4E45K5M9

9: Thickness Increase #3 Oil = 25-50%

A9: (1) ASTM Fuel A Leakage: 1.0 ml/hr max. (0.1 ml/hr typical)

(2) Nitrogen Leakage: 1.0 ml/hr max. (0.4 ml/hr typical)

M9: 2,250 psi (15 N/mm²) min.

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 based on 1/32" (0.8mm) sheet thickness.

¹ 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.

² P x T, max. = psig x °F (bar x °C)

³ See Garlock chemical resistance guide.