

## ***GARLOCK STYLE G-9900*** ***Compressed Graphite Fiber Gasketing***

Color: Mahogany with Blue Brand  
 Binder: Nitrile (NBR)  
 Fluid Services<sup>3</sup>: Saturated Steam, Water, Inert Gases, Aliphatic Hydrocarbons, Oils, Gasoline  
 Minimum Temperature<sup>1</sup>: -100°F (-75°C)  
 Continuous Operating Temperature<sup>1</sup>: +650°F (+340°C)  
 Maximum Temperature<sup>1</sup>: +1000°F (+540°C)  
 Pressure, Max.<sup>1</sup>: 2000 psi (138 bar)  
 P x T, Max.<sup>1,2</sup>: 700,000 (25,000) – 1/32” & 1/16” , 350,000 (12,000) – 1/8”

<u>TEST METHOD</u>	<u>TYPICAL PHYSICAL PROPERTIES</u>	<u>STYLE G-9900</u>
ASTM F37	<b>Sealability</b> Milliliters/Hr. Leakage, <u>ASTM Fuel A (isooctane):</u> Gasket Load, 500 psi Internal Pressure, 9.8 psi <u>Nitrogen:</u> Gasket Load, 3000 psi Internal Pressure, 30 psi	0.1    0.1
ASTM F38	<b>Creep Relaxation, (%)</b>	9.0
ASTM F36	<b>Recovery, min. (%)</b>	65
ASTM F36	<b>Compressibility, % Range</b>	7 - 17
ASTM F146	<b>Fluid Resistance After Five Hour Immersions:</b> <u>ASTM #1 Oil @ +300°F</u> Thickness Increase Range: Weight Increase, Max.: <u>ASTM #3 Oil @ +300°F</u> Thickness Increase Range: Tensile Loss, Max.: <u>ASTM Fuel A @ 70-85°F</u> Thickness Increase Range: Weight Increase, Max.: <u>ASTM Fuel B @ 70-85°F</u> Thickness Increase Range: Weight Increase, Max.:	    0 - 5% 10%  0-10% 35%  0 - 5% 7%  0-10% 15%
ASTM F152	<b>Tensile Strength (psi)</b> Across Grain, psi (N/mm <sup>2</sup> ): <b>Density- lbs./ft.<sup>3</sup></b> (grams/cm <sup>3</sup> ):	1800 (12) 110 (1.76)

Specification: ABS Approved, STR-508\* (\* Testing and certification required)

**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.  
<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> P x T, max. = psig x °F (bar x °C)  
<sup>3</sup> See Garlock chemical resistance guide.