

## Garlock 800

#### **MATERIAL PROPERTIES\*:**

Color: White & Green

**Composition:** Glass fiber with a nitrile binder

Fluid Services (see chemical resistance guide): Water, aliphatic hydrocarbons, low pressure saturated steam<sup>2</sup>, oils and

gasoline

Temperature<sup>1</sup>, °F (°C)

Minimum: -100 (-75)
Continuous Max: +550 (+290)
Maximum: +800 (+425)

Pressure<sup>1</sup>, Maximum, psig (bar): 1200 (83)

 $P \times T (max.)^1$ , psig x °F (bar x °C):

1/32 and 1/16": 325,000 (11,500) 1/8" 200,000 (6,800)

### **TYPICAL PHYSICAL PROPERTIES\*:**

ASTM F36	Compressibility, range, %:	8
ASTM F36	Recovery, %:	40
ASTM F38	Creep Relaxation, %:	30
ASTM F152	<b>Tensile</b> , Across Grain, psi (N/mm <sup>2</sup> ):	1500 (10.3)
<b>ASTM F1315</b>	<b>Density</b> , lbs./ft. <sup>3</sup> (grams/cm <sup>3</sup> ):	105 (1.7)

#### **SEALING CHARACTERISTICS\***

	ASTM F37B	ASTM F37B	DIN 3535
	Fuel A	Nitrogen	Nitrogen
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	0.6 ml/hr.	1.0 ml/hr.	0.1 cc/min

# IMMERSION PROPERTIES\*- ASTM F146 Fluid Resistance after Five Hours

	ASTM #901 Oil	ASTM IRM #903	ASTM Fuel A	ASTM Fuel B
	300°F (150°C)	300°F (150°C)	70-85°F (20-30°C)	70-85°F (20-30°C)
Thickness Increase, (%)	6	10	5	10
Weight Increase, (%)	10		6	12
Tensile Loss (%)		45		

## Notes:

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<sup>\*</sup> 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

<sup>&</sup>lt;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 PxT, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

<sup>&</sup>lt;sup>2</sup> Minimum recommended assembly stress = 4,800psi. Preferred assembly stress = 6,000-10,000psi. Gasket thickness of 1/16" strongly preferred. Retorque the bolts/studs prior to pressurizing the assembly. For saturated steam above 50psig or superheated steam, consult Garlock Engineering.