

Garlock 2500

MATERIAL PROPERTIES^{*}

Color:	Green
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)
Pressure², Maximum, psig (bar):	1000 (70)
P x T (max.)², psig x °F (bar x °C)	
1/32 and 1/16":	250,000 (8,600)
1/8":	150,000 (5,100)

PHYSICAL PROPERTIES^{*}

ASTM F36	Compressibility, range, %:	7-17
ASTM F36	Recovery, %:	40
ASTM F38	Creep Relaxation, %:	30
ASTM F152	Tensile, Across Grain, psi (N/mm²):	1250 (8.6)
ASTM F1315	Density, lbs./ft.³ (grams/cm³):	120 (1.9)

SEALING CHARACTERISTICS^{*}

	ASTM F37B Fuel A	ASTM F37B Nitrogen
Gasket Load, psi (N/mm²):	500 (3.5)	3000 (20.7)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)
Leakage	1.0 ml/hr.	2.0 ml/hr.

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, (%)	0-10	0-15	0-10	0-10
Weight Increase, (%)	<15	—	<10	<15
Tensile loss (%)	—	0 - 40	—	—

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 unless otherwise mentioned.

* Values do not constitute specification Limits

¹ See Garlock chemical resistance guide.

² 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.