

Garlock 2930

MATERIAL PROPERTIES*

Color:	Black
Composition:	Aramid fibers with a neoprene binder
Fluid Services¹:	Water, saturated steam ³ , refrigerants, oils and fuels
Temperature², °F (°C)	
Minimum:	-100 (-75)
Continuous Max:	+400 (+205)
Maximum:	+700 (+370)
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)

PHYSICAL PROPERTIES*

ASTM F36	Compressibility , range, %:	7-17
ASTM F36	Recovery , %:	50
ASTM F38	Creep Relaxation , %:	22.5
ASTM F152	Tensile , Across Grain, psi (N/mm ²):	2000 (13.8)
ASTM F1315	Density , lbs./ft. ³ (grams/cm ³):	105 (1.68)
ASTM F586	Design Factors	<u>1/16"</u> <u>1/8"</u>
	"m" factor:	6.0 -
	"y" factor, psi (N/mm ²):	4500 (31.0) -

SEALING CHARACTERISTICS*

	ASTM F37B Fuel A	ASTM F37B Nitrogen
Gasket Load , psi (N/mm ²):	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 Range , (%)	0-5	5-25	0-10	0-20
Weight Increase, Max. , (%)	15	-	20	20
Tensile Loss, Max. , (%)	-	60	-	-

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.

³ Above 150 psig, contact Engineering.