

Garlock: Multi-Swell Style 3760

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Garlock
SEALING TECHNOLOGIES®

DESCRIPTION

Aramid fibers with a proprietary rubber binder gasketing material that creates a seal where the available compressive load on the gasket is low, or where the flanges are not rigid enough to compress a standard gasket material in the areas between bolts. The seal is created by a combination of highly compressible material and the interaction of the gasket with water or oil that causes the gasket to swell and create load.

BENEFITS

- *Creates compressive load in light weight flanges in oil and water service – seals where standard gaskets won't*
- *More universal than gaskets that swell in oil only – reduces inventory*
- *Performs well in flanges that might crush an elastomer gasket, providing use in a wide array of applications*
- *More compressible than standard fiber gaskets & seals with low load*
- *Easy to cut and handle – extremely flexible, minimizes waste*
- *Replaces vegetable fiber gaskets in many applications – won't weep, improving plant safety*
- *Seals flanges in "less than perfect" conditions minimizing maintenance*

DISCLAIMER

All data and statements concerning these products may be considered as being indicative of representative properties and characteristics obtainable. We make no warranty, expressed or implied, concerning actual use or results because of industry specific influences. All of the product data is nominal and does not represent a specification.

Material Properties

Colour:	Blue/Off-white
Composition:	Synthetic fibers with a proprietary rubber binder
Fluid Services ¹ :	Water, aliphatic hydrocarbons, oils and gasoline
Temperature ² , °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Pressure ² , Maximum, psig (bar):	500 (34.5)
P × T (max.) ² , psig × °F (bar × °C)	
1/32 and 1/16":	150,000 (5,100)
1/8":	100,000 (3,400)
Meets Specification:	ABS

Typical Physical Properties

ASTM F36	Compressibility, %:	15-30
ASTM F36	Recovery, %:	40
ASTM F38	Creep Relaxation, %:	30
ASTM F152	Tensile, Across Grain, psi (N/mm ²):	1000 (6.9)
ASTM F1315	Density, lbs./ft.3 (grams/cm3):	85 (1.36)
ASTM D149	Dielectric Properties, range, volts/mil.	
	Sample conditioning	1/32" 1/68"
	3 hours at 250 °F:	607 385
	96 hours at 100% Relative Humidity	- -
ASTM F104	Line Call Out:	F719996B6L100M3 ³⁾

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	0.15 ml/hr.	0.20 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)	Distilled Water 70-85 °F (20-30 °C)
Thickness Increase, (%)	≥15	<75	25
Weight Increase, (%)	<30	<85	-
Tensile Loss, (%)	-	-	-

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×T, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

³ Third numeral 9: F36 Compressibility 15-30%. Fourth numeral 9: % Thickness Increase in IRM Oil #903 = 75% max. Fifth numeral 9: % Weight Increase in IRM Oil #903 = 85% max.