



## Garlock Multi-Swell™ (Style 3760)

### MATERIAL PROPERTIES\*

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

### TYPICAL PHYSICAL PROPERTIES\*

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

### SEALING CHARACTERISTICS\*

	ASTM F37B Fuel A	ASTM F37B Nitrogen
<b>Gasket Load, psi (N/mm<sup>2</sup>):</b>	500 (3.5)	3000 (20.7)
<b>Internal Pressure, psig (bar):</b>	9.8 (0.7)	30 (2)
<b>Leakage</b>	<b>0.15 ml/hr.</b>	<b>0.20 ml/hr.</b>

### 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)
<b>Thickness Increase, (%)</b>	≥15	<75	25
<b>Weight Increase, (%)</b>	<30	<85	-
<b>Tensile Loss, (%)</b>	-	-	-

#### 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

<sup>1</sup> See Garlock chemical resistance guide.

<sup>2</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>3</sup> 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.