

## 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</b> (see chemical resistance guide):	Water, aliphatic hydrocarbons, oils and gasoline
<b>Temperature</b> <sup>1</sup> , °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
<b>Pressure</b> <sup>1</sup> , Maximum, psig (bar):	500 (34.5)
<b>P x T (max.)</b> <sup>1</sup> , psig x °F (bar x °C):	
1/32 and 1/16":	150,000 (5,100)
1/8"	100,000 (3,400)
<b>Meets Specifications:</b>	ABS (American Bureau of Shipping)

### TYPICAL PHYSICAL PROPERTIES\*:

<b>ASTM F36</b>	<b>Compressibility</b> , average, %:	15	
<b>ASTM F36</b>	<b>Recovery</b> , %:	40	
<b>ASTM F38</b>	<b>Creep Relaxation</b> , %:	30	
<b>ASTM F152</b>	<b>Tensile</b> , Across Grain, psi (N/mm <sup>2</sup> ):	1000 (6.9)	
<b>ASTM F1315</b>	<b>Density</b> , lbs./ft. <sup>3</sup> (grams/cm <sup>3</sup> ):	85 (1.36)	
<b>ASTM D149</b>	<b>Dielectric Properties</b> , range, volts/mil.		
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F	607	385
	96 hours at 100% Relative Humidity:	-	-
<b>ASTM F586</b>	<b>Design Factors (gas – nitrogen)</b>	<u>1/16" &amp; Under</u>	<u>1/8"</u>
	"m" factor:	8.1 <sup>(2)</sup>	7.4 <sup>(2)</sup>
	"y" factor, psi (N/mm <sup>2</sup> ):	2500 (17.2) <sup>(2)</sup>	2300 (15.8) <sup>(2)</sup>
<b>ASTM F586</b>	<b>Design Factors (liquid – water)</b>	<u>1/16" &amp; Under</u>	<u>1/8"</u>
	"m" factor:	2.0 <sup>(2)</sup>	2.0 <sup>(2)</sup>
	"y" factor, psi (N/mm <sup>2</sup> ):	300 (2.0) <sup>(2)</sup>	300 (2.0) <sup>(2)</sup>

### SEALING CHARACTERISTICS\*

	<b>ASTM F37B – Fuel A</b>	<b>ASTM F37B - Nitrogen</b>
<b>Gasket Load</b> , psi (N/mm <sup>2</sup> ):	500 (3.5)	3000 (20.7)
<b>Internal Pressure</b> , psig (bar):	9.8 (0.7)	30 (2)
<b>Leakage</b>	<b>0.20 ml/hr.</b>	<b>0.40 ml/hr.</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

<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>2</sup> The MULTI-SWELL™ product is intended for use in water, oils, and fuels (liquids). Therefore, while gas (nitrogen) m & y values are provided, the liquid values are more appropriate when comparing to existing flange designs.

REV: 10/11/2016