

MULTI-SWELL™ Style 3760-U



MATERIAL PROPERTIES*:

Color:	Blue/Off-white
Composition:	Synthetic fibers with a proprietary rubber binder (unbranded without anti-stick)
Fluid Services (see chemical resistance guide):	Potable (Drinking) water
Temperature¹, °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Pressure¹, Maximum, psig (bar):	500 (34.5)
P x T (max.)¹, psig x °F (bar x °C):	
1/32 and 1/16":	150,000 (5,100)
1/8"	100,000 (3,400)
Meets Specifications:	NSF/ANSI 61 certified for 1" through 144" flange/pipe sizes

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility , average, %:	15
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/cm ³):	85 (1.36)
ASTM D149	Dielectric Properties , 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:	- -
ASTM F586	Design Factors (gas – nitrogen)	<u>1/16" & Under</u> <u>1/8"</u>
	"m" factor:	8.1 ⁽²⁾ 7.4 ⁽²⁾
	"y" factor, psi (N/mm ²):	2500 (17.2) ⁽²⁾ 2300 (15.8) ⁽²⁾
ASTM F586	Design Factors (liquid – water)	<u>1/16" & Under</u> <u>1/8"</u>
	"m" factor:	2.0 ⁽²⁾ 2.0 ⁽²⁾
	"y" factor, psi (N/mm ²):	300 (2.0) ⁽²⁾ 300 (2.0) ⁽²⁾

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	0.20 ml/hr.	0.40 ml/hr.

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

¹ 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.

² 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