

Garlock MULTI-SWELL™ (Style 3760)

MATERIAL PROPERTIES*:

| | |
|--------------------------------------------------------|---------------------------------------------------|
| Color: | Blue/Off-white |
| Composition: | Synthetic fibers with a proprietary rubber binder |
| Fluid Services¹: | Water, aliphatic hydrocarbons, oils and gasoline |
| Temperature², °F (°C) | |
| Minimum: | -100 (-73) |
| Continuous Max: | +400 (+205) |
| Pressure², Maximum, psig (bar): | 500 (34.5) |
| P x T (max.)², psig x °F (bar x °C): | |
| 1/32 and 1/16": | 150,000 (5,100) |
| 1/8" | 100,000 (3,400) |
| Meets Specification: | ABS (American Bureau of Shipping) |

TYPICAL PHYSICAL PROPERTIES*:

| | | |
|-------------------|----------------------------------------------------------------|------------------------------------------|
| ASTM F36 | Compressibility , range, %: | 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/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 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_{xT}, 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.