



Garlock FAWN GYLON® 3500

MATERIAL PROPERTIES*

| | |
|---|---|
| Color: | Fawn |
| Composition: | PTFE with silica |
| Fluid Services¹: | Strong acids (except hydrofluoric), steam, solvents, hydrocarbons, chlorine and cryogenics |
| Temperature², °F (°C) | |
| Minimum: | -450 (-268) |
| Continuous Max: | +500 (+260) |
| Pressure², Maximum, psig (bar): | 1200 (83) |
| P x T (max.)², psig x °F (bar x °C) | |
| 1/32 and 1/16": | 350,000 (12,000) |
| 1/8": | 250,000 (8,600) |
| Flammability: | Will Not Burn |
| Bacterial Growth: | Will Not Support |
| Meets Specification: | ABS (American Bureau of Shipping), FDA (Food and Drug Administration) and USDA (US Department of Agriculture) |

TYPICAL PHYSICAL PROPERTIES*

| | | |
|-------------------|--|------------------------------------|
| ASTM F36 | Compressibility, %: | 7-12 |
| ASTM F36 | Recovery, %: | 40 |
| ASTM F38 | Creep Relaxation, %: | 18 |
| ASTM F152 | Tensile, Across Grain, psi (N/mm²): | 2000 (13.8) |
| ASTM D792 | Specific Gravity: | 2.10 |
| ASTM D1708 | Modulus @ 100% Elongation, psi (N/mm²): | 1600 (11.0) |
| ASTM F433 | Thermal Conductivity (K), W/m²K (Btu.-in./hr.-ft.².°F): | 0.36-0.45 (2.50-3.15) |
| ASTM D149 | Dielectric Properties, range, volts/mil. | |
| | Sample conditioning | 1/16" 1/8" |
| | 3 hours at 250°F: | 362 - |
| | 96 hours at 100% Relative Humidity | 61 - |
| ASTM F586 | Design Factors | 1/16" & Under 1/8" |
| | "m" factor: | 5.0 5 |
| | "y" factor, psi (N/mm ²): | 2750 (19.0) 3500 (24.1) |
| ROTT | Gasket Constants, 1/16": | Gb=949 a=0.253 Gs=2.6 |
| | 1/8": | Gb=1980 a=0.169 Gs=0.393 |
| ASTM F104 | Line Call Out: | F451999A9B4E99K6M6 ⁽³⁾ |

SEALING CHARACTERISTICS*

| | ASTM F37B Fuel A | DIN 3535- 4 Gas Permeability |
|---|-----------------------------|---|
| Gasket Load, psi (N/mm²): | 1000 (7) | 4640 (32) |
| Internal Pressure, psig (bar): | 9.8 (0.7) | 580 (40) |
| Leakage | 0.22 ml/hr. | <0.015 cc/min |

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 PxT, consult Garlock Applications Engineering.

³ Increase in IRM Oil #903 (fourth numeral 9 is thickness, fifth numeral 9 is weight): Thickness = 1.0% max, Weight = 2.0% max. Sixth numeral 9: % Increase in Water: Weight = 1.0% max. A9: Leakage in Fuel A (Isooctane), Gasket Load = 1,000psi (7.0N/mm²), Pressure = 9.8psig (0.7bar): Typical = 0.22ml/hr, Max = 1.0ml/hr. E99: % Increase in ASTM Fuel B: Weight: 2.0% max., Thickness: 1.0% max.