



Garlock FAWN GYLON® HP 3560

Metal Inserted GYLON

MATERIAL PROPERTIES*

| | |
|---|---|
| Color: | Fawn |
| Composition: | PTFE with silica and a perforated 316L stainless steel insert |
| Fluid Services¹: | Strong acids (except hydrofluoric), solvents, hydrocarbons, water, steam, chlorine and cryogenics |
| Temperature², °F (°C) | |
| Continuous Max: | +500 (+260) |
| Pressure², Maximum, psig (bar): | 2500 (172) |
| P x T (max.)², psig x °F (bar x °C) | |
| 1/32 and 1/16": | 700,000 (25,000) |
| 1/8": | 450,000 (15,000) |
| Flammability: | Will Not Burn |
| Bacterial Growth: | Will Not Support |

TYPICAL PHYSICAL PROPERTIES*

| | | |
|-------------------|---|-------------------------------------|
| ASTM F36 | Compressibility, %: | 4-9 ⁽³⁾ |
| ASTM F36 | Recovery, %: | 45 ⁽³⁾ |
| ASTM F38 | Creep Relaxation, %: | 20 ⁽³⁾ |
| ASTM F152 | Tensile, Across Grain, psi (N/mm²): | 5000 (34) ³ |
| ASTM D1708 | Modulus @ 100% Elongation, psi (N/mm²): | N/A |
| ASTM F433 | Thermal Conductivity (K), W/m°K (Btu·in./hr·ft.²·°F): | 0.36-0.45 (2.50-3.15) |
| ASTM F586 | Design Factors | |
| | "m" factor: | 1/16" & Under: 5.0 1/8": 5.0 |
| | "y" factor, psi (N/mm ²): | 3500 (24.1) 4000 (27.6) |
| ASTM F104 | Line Call Out: | F451999A9B4E99K6M6 ^(3,4) |

SEALING CHARACTERISTICS*

| | ASTM F37B Fuel A | DIN 3535- 4 Gas Permeability |
|--|----------------------------------|---|
| Gasket Load , psi (N/mm ²): | 1000 (7) | 4640 (32) |
| Internal Pressure , psig (bar): | 9.8 (0.7) | 580 (40) |
| Leakage | 0.02⁽³⁾ ml/hr. | <0.015⁽³⁾ 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 1/16" (1.6mm) 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 Tested on 1/16" thick material.

⁴ Tested on 1/16" material. 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.