Garlock
SEALING TECHNOLOGIES®
an EnPro Industries company

# Garlock WHITE GYLON® 3540

## MATERIAL PROPERTIES*

| | |
|---|---|
| **Color:** | White |
| **Composition:** | Microcellular PTFE |
| **Fluid Services[1]:** | Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-lined equipment |
| **Temperature[2]**, °F (°C) | |
| Minimum: | -450 (-268) |
| Continuous Max: | +500 (+260) |
| **Pressure[2]**, 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:** | FDA (Food and Drug Administration) |

## TYPICAL PHYSICAL PROPERTIES*

| | | | | |
|---|---|---|---|---|
| **ASTM F36** | **Compressibility**, %: | 70-85 | | |
| **ASTM F36** | **Recovery**, %: | 8 | | |
| **ASTM F38** | **Creep Relaxation**, %: | 10 | | |
| **ASTM D149** | **Dielectric Properties**, range, volts/mil. | | | |
| | Sample conditioning | 1/16" | 1/8" | |
| | 3 hours at 250°F: | 86 | 61 | |
| | 96 hours at 100% Relative Humidity | 16 | - | |
| **ASTM F586** | **Design Factors** | 1/16" & Under | 1/8" | |
| | "m" factor: | 3.0 | 3.0 | |
| | "y" factor, psi ($N/mm^2$): | 1700 (11.7) | 2200 (15.2) | |
| **ROTT** | **Gasket Constants**, 3/8": | Gb=550 | a=0.304 | $Gs=7.64x10^{-1}$ |
| **ASTM F104** | **Line Call Out**: | F419000A9B2[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** | **0.25 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] Third cumeral 9: Compressibility = 70-85%. A9: Leakage in Fuel A (Isooctane), Gasket Load = 1,000psi (7.0N/mm2), Pressure = 9.8psig (0.7bar): Typical = 0.25ml/hr, Max = 1.0ml/hr.