



Garlock WHITE GYLON[®] 3540

MATERIAL PROPERTIES*

Color:	White
Composition:	Microcellular PTFE
Fluid Services¹:	Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-lined equipment
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:	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	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F:	86	61
	96 hours at 100% Relative Humidity	16	-
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>
	"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/mm ²):	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 P x T, consult Hanna Rubber Company

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.