

GYLON® Style 3545

MATERIAL PROPERTIES*:

Color: White

Composition: Microcellular PTFE

Fluid Services (see chemical resistance guide): Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-

lined equipment and low bolt load applications²

Temperature¹, °F (°C)

Minimum: -450 (-268) Maximum: +500 (+260) Ideal Operating Limit: +400 (+204)

Pressure¹, psig (bar):

Minimum: Full Vacuum
Maximum: 1200 (83)
Ideal Operating Limit: 750 (52)

P x T (max.)¹, psig x °F (bar x °C):

1/32 and 1/16": 350,000 (12,000) 1/8" 250,000 (8,600)

Flammability: Will Not Support Flame

Bacterial Growth: Will Not Support

Meets Specifications: ABS (American Bureau of Shipping), FDA (Food and Drug

Administration) 21 CFR 177.1550

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:	60-70	
ASTM F36	Recovery, %:	15	
ASTM F38	Creep Relaxation, %:	15	
ASTM D149	Dielectric Properties, range, volts/mil.		
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F	248	244
	96 hours at 100% Relative Humidity:	222	264
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>
	"m" factor:	2.6	2.0
	"y" factor, psi (N/mm²):	1500 (10.3)	2200 (15.2)
ROTT	Gasket Constants:		
	1/16"	Gb=162.1 a=0.379	Gs=1.35x10 ⁻⁹
	1/8":	Gb=92.48 a=0.468	Gs=2.50x10 ⁻³
	3/16":	Gb=628 a=0.249	Gs=7.93x10 ⁻⁵

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	DIN 3535 – Nitrogen
Gasket Load, psi (N/mm2):	1000 (7)	4640 (32)
Internal Pressure, psig (bar):	9.8 (0.7)	580 (40)
Leakage	0.15 ml/hr.	<0.015 cc/min

8/15/2023

Notes

² For flat face flanges, a minimum compressive stress of 1500psi (103N/mm2)is recommended on the contacted gasket area for 150psig (10.4bar) liquid service. Consult with the flange manufacturer to confirm that adequate compressive stress is available.



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^{*} 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

¹ 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. Minimum temperature rating is conservative.