

# GYLON<sup>®</sup> 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 applications <sup>2</sup>
Temperature <sup>1</sup> , °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
<b>Pressure</b> <sup>1</sup> , Maximum, psig (bar):	1200 (83)
<b>P x T (max.)</b> <sup>1</sup> , 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" &amp; 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=0.3	79 Gs=1.35x10 <sup>-9</sup>
	1/8":	Gb=92.48 a=0.4	68 Gs= $2.50 \times 10^{-3}$
	3/16":	Gb=628 a=0.24	49 Gs=7.93x10 <sup>-5</sup>

## 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

#### 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

<sup>1</sup> 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.

<sup>2</sup> 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.

Tel: 1-877-GARLOCK / 315.597.4811 Fax: 800.543.0598 / 315.597.3216 www.garlock.com



