



## Garlock WHITE GYLON® 3545

### MATERIAL PROPERTIES\*

<b>Color:</b>	White
<b>Composition:</b>	Microcellular PTFE
<b>Fluid Services<sup>1</sup>:</b>	Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-lined equipment and low bolt load applications <sup>3</sup>
<b>Temperature<sup>2</sup>, °F (°C)</b>	
Minimum:	-450 (-268)
Continuous Max:	+500 (+260)
<b>Pressure<sup>2</sup>, Maximum, psig (bar):</b>	1200 (83)
<b>P x T (max.)<sup>2</sup>, psig x °F (bar x °C)</b>	
1/32 and 1/16":	350,000 (12,000)
1/8":	250,000 (8,600)
<b>Flammability:</b>	Will Not Burn
<b>Bacterial Growth:</b>	Will Not Support
<b>Meets Specification:</b>	ABS (American Bureau of Shipping), FDA (Food and Drug Administration)

### TYPICAL PHYSICAL PROPERTIES\*

<b>ASTM F36</b>	<b>Compressibility, %:</b>	60-70		
<b>ASTM F36</b>	<b>Recovery, %:</b>	15		
<b>ASTM F38</b>	<b>Creep Relaxation, %:</b>	15		
<b>ASTM F152</b>	<b>Tensile, Across Grain, psi (N/mm<sup>2</sup>):</b>	-		
<b>ASTM D149</b>	<b>Dielectric Properties, range, volts/mil.</b>			
	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	
<b>ASTM F586</b>	<b>Design Factors</b>	<u>1/16" &amp; Under</u>	<u>1/8"</u>	
	"m" factor:	2.6	2.0	
	"y" factor, psi (N/mm <sup>2</sup> ):	1500 (10.3)	2200 (15.2)	
<b>ROTT</b>	<b>Gasket Constants, 1/16":</b>	Gb=162.1	a=0.379	Gs=1.35x10 <sup>-9</sup>
	1/8":	Gb=92.48	a=0.468	Gs=2.50x10 <sup>-3</sup>
	3/16":	Gb=628	a=0.249	Gs=7.93x10 <sup>-5</sup>
<b>ASTM F104</b>	<b>Line Call Out:</b>	F419000A9B3 <sup>(4)</sup>		

### SEALING CHARACTERISTICS\*

	<b>ASTM F37B Fuel A</b>	<b>DIN 3535- 4 Gas Permeability</b>
<b>Gasket Load, psi (N/mm<sup>2</sup>):</b>	1000 (7)	4640 (32)
<b>Internal Pressure, psig (bar):</b>	9.8 (0.7)	580 (40)
<b>Leakage</b>	<b>0.15 ml/hr.</b>	<b>&lt;0.015 cc/min</b>

#### 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

<sup>1</sup> See Garlock chemical resistance guide.

<sup>2</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.

<sup>3</sup> For flat face flanges, a minimum compressive stress of 1500psi (103N/mm<sup>2</sup>) 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.

<sup>4</sup> Third numeral 9: F36 Compressibility = 60-70%. A9: Leakage in Fuel A (Isooctane), Gasket Load = 1,000psi (7.0N/mm<sup>2</sup>), Pressure = 9.8psig (0.7bar): Typical = 0.15ml/hr, Max = 1.0ml/hr.