

# **GYLON® Style 3510**

#### **MATERIAL PROPERTIES\*:**

Color: Off –White

**Composition:** PTFE with barium sulfate

Fluid Services (see chemical resistance guide): Strong caustics, moderate acids, chlorine, gases, water, steam,

cryogenics, hydrocarbons and aluminum fluoride

Temperature<sup>1</sup>, °F (°C)

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

Pressure<sup>1</sup>, psig (bar):

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

 $P \times T (max.)^1$ , 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, %:	4-1	.0	
ASTM F36	Recovery, %:	40		
ASTM F38	Creep Relaxation, %:	11		
<b>ASTM D1708</b>	Tensile, Across Grain, psi (N/mm²):	2000 (	13.8)	
ASTM D792	Specific Gravity:	2.80		
<b>ASTM D1708</b>	Modulus @ 100% Elongation, psi (N/mm <sup>2</sup> ):	1400 (9.6)		
ASTM F433	Thermal Conductivity (K), W/m°K (Btu.·in./hr.·ft.²-°F):	0.29-0.38 (2.00-2.65)		
ASTM D149	Dielectric Properties, range, volts/mil.			
	Sample conditioning	<u>1/1</u>	<u>6"</u>	<u>1/8"</u>
	3 hours at 250°F	466 <sup>(2)</sup>		-
	96 hours at 100% Relative Humidity:	59		-
ASTM F586	Design Factors	<u>1/16" &amp; Under</u>		<u>1/8"</u>
	"m" factor:	2.0		2.0
	"y" factor, psi (N/mm²):	2350 (16.2) 25		2500 (17.2)
ROTT	Gasket Constants:			
	1/16"	Gb=289	a=0.274	Gs=6.61x10 <sup>-11</sup>
	1/8"	Gb=444	a=0.332	Gs=1.29x10 <sup>-2</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	0.04 ml/hr.	<0.015 cc/min

#### Notes

Tel: 1-877-GARLOCK / 315.597.4811

<sup>2</sup> Indicates that the current arced around and not through the gasket. Dielectric strength will be higher than published.

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<sup>\*</sup> 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>&</sup>lt;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.