

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 ¹ , °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Ideal Operating Limit:	+400 (+204)
Pressure ¹ , 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, %:	4-1	0	
ASTM F36	Recovery, %:	40		
ASTM F38	Creep Relaxation, %:	11		
ASTM D1708	Tensile, Across Grain, psi (N/mm ²):	2000 (2	L3.8)	
ASTM D792	Specific Gravity:	2.8	D	
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm ²):	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>1/16</u>	<u>5″</u>	<u>1/8"</u>
	3 hours at 250°F	466	(2)	-
	96 hours at 100% Relative Humidity:	59		-
ASTM F586	Design Factors	<u>1/16" &</u>	<u>Under</u>	<u>1/8"</u>
	"m" factor:	2.0)	2.0
	"y" factor, psi (N/mm²):	2350 (2	L6.2)	2500 (17.2)
ROTT	Gasket Constants:			
	1/16"	Gb=289	a=0.274	Gs=6.61x10 ⁻¹¹
	1/8"	Gb=444	a=0.332	Gs=1.29x10 ⁻²

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:

* 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.

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

8/15/2023

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