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Garlock OFF-WHITE GYLON[®] 3510



MATERIAL PROPERTIES^{*}

Color:	Off White		
Composition:	PTFE with barium sulfate		
Fluid Services ¹ :	Strong caustics, moderate acids, chlorine, gases, water, steam, cryogenics,		
	hydrocarbons and aluminum fluoride		
Temperature ² , °F (°C)			
Minimum:	-450 (-268)		
Continuous Max:	+500 (+260)		
Pressure ² , Maximum, psig (bar):	1200 (83)		
P x T (max.) ² , psig x °F (bar x °C)			
1/32 and 1/16":	350,000 (12,000)		
1/8":	250,000 (8,600)		
Flammability:	Will Not Burn		
Bacterial Growth:	Will Not Support		
Meets Specification:	ABS (American Bureau of Shipping) and FDA (Food and Drug Administration)		

TYPICAL PHYSICAL PROPERTIES^{*}

ASTM F36	Compressibility, %:	2	l-10	
ASTM F36	Recovery, %:	40		
ASTM F38	Creep Relaxation, %:	11		
ASTM F152	Tensile, Across Grain, psi (N/mm ²):	2000 (13.8)		
ASTM D792	Specific Gravity:	2.80		
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm2):	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>1/8"</u>	
	3 hours at 250°F:	466 ⁽³⁾	-	
	96 hours at 100% Relative Humidity	59	-	
ASTM F586	Design Factors	<u>1/16" & Under</u>	1/8"	
	"m" factor:	2.0	2.0	
	"y" factor, psi (N/mm ²):	2350 (16.2)	2500 (1	7.2)
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
ASTM F104	Line Call Out:	F451999A9B2E99K5M6 ⁽⁴⁾		

SEALING CHARACTERISTICS^{*}

	ASTM F37B Fuel A	DIN 3535- 4 Gas Permeability
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 based on 1/32" (0.8mm) sheet thickness unless otherwise mentioned.

* Values do not constitute specification Limits

¹ See Garlock chemical resistance guide.

² 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.

³ Indicates current arced around and not through gasket. Dielectric higher than indicated.

⁴ Increase in IRM Oil #903 (fourth numeral 9 is thickness, fifth numeral 9 is weight): Thickness = 1.0% max, Weight = 2.0% max. Sixth numberal 9: % Increase in Water: Weight = 1.0% max. A9: Leakage in Fuel A (Isooctane), Pressure = 9.8psig (0.7bar), Gasket Load = 1,000psi (7.0N/mm2): Typical = 0.04ml/hr, Max = 1.0ml/hr. E99: % Increase in ASTM Fuel B: Weight: 2.0% max., Thickness: 1.0% max.