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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), FDA (Food and Drug Administration)

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	**Compressibility** , %:	4-10		
ASTM F36	**Recovery**, %:	40		
ASTM F38	**Creep Relaxation, %:**	11		
ASTM D1708	**Tensile**, Across Grain, psi (N/mm^2):	2000 (13.8)		
ASTM D792	**Specific Gravity:**	2.80		
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	1/16”		1/8”
	3 hours at 250°F:	466[(3)]		-
	96 hours at 100% Relative Humidity:	59		-
ASTM F586	**Design Factors**	1/16” & Under		1/8”
	“m” factor:	2.0		2.0
	“y” factor, psi (N/mm^2)	2350 (16.2)		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}

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1666 Division Street
Palmyra, NY 14522

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

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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.

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