

an EnPro Industries company



Garlock GYLON[®] 3565 ENVELON[®]

SEAL & DESIG

MATERIAL PROPERTIES^{*}

Color:	White exterior and blue interior		
Composition:	PTFE with Aluminosilicate microspheres		
Fluid Services ¹ :	Moderate concentrations of acids, some caustics, hydrocarbons, solvents,		
	hydrogen peroxide, refrigerants and cryogenics		
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:	FDA (Food and Drug Administration)		

TYPICAL PHYSICAL PROPERTIES

ASTM F36	Compressibility, %:	30-5	-	
ASTM F36	Recovery, %:	35		
ASTM F38	Creep Relaxation, %:	35	(3)	
ASTM F152	Tensile, Across Grain, psi (N/mm ²):	1800 (12.4) ³	
ASTM D792	Specific Gravity:	1.65		
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm2):	1300	1300 (8.9)	
ASTM D149	Dielectric Properties, range, volts/mil.			
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>	
	3 hours at 250°F:	301	-	
	96 hours at 100% Relative Humidity	221	-	
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>	
	"m" factor:	2.8	3.7	
	"y" factor, psi (N/mm ²):	1400 (9.6)	2300 (15.9)	
ASTM F104	Line Call Out:	F457999A9E	F457999A9B6E99M6 ^(3,4)	

SEALING CHARACTERISTICS

	ASTM F37B	DIN 3535-4
	Fuel A	Gas Permeability
Gasket Load, psi (N/mm2):	1000 (7)	4640 (32)
Internal Pressure, psig (bar):	9.8 (0.7)	580 (40)
Leakage	0.33 ⁽³⁾ ml/hr.	<0.015 ⁽³⁾ 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 1/16" (1.6mm) sheet thickness unless otherwise mentioned. See Note (3).

* 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 Tested on 1/16" thick material.

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 = 0.33ml/hr, Max = 1.0ml/hr. E99: % Increase in ASTM Fuel B: Weight: 2.0% max., Thickness: 1.0% max.

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