



an EnPro Industries company



Garlock BLUE GYLON® 3504

MATERIAL PROPERTIES

Color: Blue

Composition: PTFE with glass microspheres

Fluid Services¹: Moderate concentrations of acids, some caustics, hydrocarbons, solvents,

hydrogen peroxide, refrigerants and cryogenics

Temperature², °F (°C)

Minimum: -450 (-268)
Continuous Max: +500 (+260) **Pressure**², Maximum, psig (bar): 800 (55)

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)

and USP (US Pharmacopeia)

TYPICAL PHYSICAL PROPERTIES

ASTM F36	Compressibility, %:	2	25-45	
ASTM F36	Recovery, %:	30		
ASTM F38	Creep Relaxation, %:	40.0		
ASTM F152	Tensile, Across Grain, psi (N/mm²):	2000 (13.8)		
ASTM D792	Specific Gravity:	1.70		
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm2):	1500 (10.3)		
ASTM F433	Thermal Conductivity (K), W/m°K (Btu.·in./hr.·ft. ² ·°F):	0.14-0.24 (1.00-1.65)		
ASTM D149	Dielectric Properties, range, volts/mil.			
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>	
	3 hours at 250°F:	318	-	
	96 hours at 100% Relative Humidity	245	-	
ASTM F586	Design Factors	1/16" & Under	<u>1/8"</u>	
	"m" factor:	3.0	2.5	
	"y" factor, psi (N/mm²):	1650 (11.4)	3000 (20).7)
ROTT	Gasket Constants, 1/16":	Gb=183 a=	=0.357	Gs=4.01x10 ⁻³
	1/8":	Gb=1008 a=	=0.221	Gs=2.23
ASTM F104	Line Call Out:	F456999A9B7E99K3M6 ⁽³⁾		

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	0.12 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.

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^{*} 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 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 = 0.12ml/hr, Max = 1.0ml/hr. E99: % Increase in ASTM Fuel B: Weight: 2.0% max., Thickness: 1.0% max.