



Garlock FAWN GYLON® 3500

MATERIAL PROPERTIES*

Color:	Fawn
Composition:	PTFE with silica
Fluid Services¹:	Strong acids (except hydrofluoric), steam, solvents, hydrocarbons, chlorine and cryogenics
Temperature², °F (°C)	
Minimum:	-450 (-268)
Continuous Max:	+500 (+260)
Pressure², 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) and USDA (US Department of Agriculture)

TYPICAL PHYSICAL PROPERTIES*

ASTM F36	Compressibility, %:	7-12	
ASTM F36	Recovery, %:	40	
ASTM F38	Creep Relaxation, %:	18	
ASTM F152	Tensile, Across Grain, psi (N/mm²):	2000 (13.8)	
ASTM D792	Specific Gravity:	2.10	
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm²):	1600 (11.0)	
ASTM F433	Thermal Conductivity (K), W/m²K (Btu.-in./hr.-ft.².°F):	0.36-0.45 (2.50-3.15)	
ASTM D149	Dielectric Properties, range, volts/mil.		
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F:	362	-
	96 hours at 100% Relative Humidity	61	-
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>
	"m" factor:	5.0	5
	"y" factor, psi (N/mm ²):	2750 (19.0)	3500 (24.1)
ROTT	Gasket Constants, 1/16":	Gb=949	a=0.253 Gs=2.6
	1/8":	Gb=1980	a=0.169 Gs=0.393
ASTM F104	Line Call Out:	F451999A9B4E99K6M6 ⁽³⁾	

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	0.22 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 Increase in IRM Oil #903 (fourth numeral 9 is thickness, fifth numeral 9 is weight): Thickness = 1.0% max, Weight = 2.0% max. Sixth numeral 9: % Increase in Water: Weight = 1.0% max. A9: Leakage in Fuel A (Isooctane), Gasket Load = 1,000psi (7.0N/mm²), Pressure = 9.8psig (0.7bar): Typical = 0.22ml/hr, Max = 1.0ml/hr. E99: % Increase in ASTM Fuel B: Weight: 2.0% max., Thickness: 1.0% max.