

an EnPro Industries company

# Garlock GYLON<sup>®</sup> 3502 FAWN GYLON For Oxygen Service

### **MATERIAL PROPERTIES**\*

Color:	Fawn		
Composition:	PTFE with silica		
Fluid Services <sup>1</sup> :	Oxygen service, solvents, hydrocarbons, strong acids (except		
	hydrofluoric), steam, chlorine and cryogenics		
Temperature <sup>2</sup> , °F (°C)			
Minimum:	-450 (-268)		
Continuous Max:	+500 (+260)		
Pressure <sup>2</sup> , Maximum, psig (bar):	1200 (83)		
P x T (max.) <sup>2</sup> , 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		

## PHYSICAL PROPERTIES\*

ASTM F36	Compressibility, %:	7-	-12	
ASTM F36	Recovery, %:	4	10	
ASTM F38	Creep Relaxation, %:	1	18	
ASTM F152	Tensile, Across Grain, psi (N/mm <sup>2</sup> ):	2000	(13.8)	
ASTM D792	Specific Gravity:	2.	10	
<b>ASTM D1708</b>	Modulus @ 100% Elongation, psi (N/mm2):	1600	(11.0)	
ASTM F433	Thermal Conductivity (K), W/m°K (Btu.·in./hr.·ft. <sup>2</sup> ·°F):	0.36-0.45	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"</u>	<u>1/8"</u>	
	"m" factor:	5.0	5.0	
	"y" factor, psi (N/mm²):	2750 (19.0)	3500 (24.1)	
ASTM F104	Line Call Out:	F451999A9E	F451999A9B1E99K6M6 <sup>(3)</sup>	

#### 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	0.22 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.

<sup>\*</sup> Values do not constitute specification Limits

<sup>&</sup>lt;sup>1</sup> See Garlock chemical resistance guide.

<sup>&</sup>lt;sup>2</sup> 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.

<sup>&</sup>lt;sup>3</sup> 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), 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.