



# Garlock FAWN GYLON® HP 3560

## Metal Inserted GYLON

### MATERIAL PROPERTIES\*

<b>Color:</b>	Fawn
<b>Composition:</b>	PTFE with silica and a perforated 316L stainless steel insert
<b>Fluid Services<sup>1</sup>:</b>	Strong acids (except hydrofluoric), solvents, hydrocarbons, water, steam, chlorine and cryogenics
<b>Temperature<sup>2</sup>, °F (°C)</b>	
Continuous Max:	+500 (+260)
<b>Pressure<sup>2</sup>, Maximum, psig (bar):</b>	2500 (172)
<b>P x T (max.)<sup>2</sup>, psig x °F (bar x °C)</b>	
1/32 and 1/16":	700,000 (25,000)
1/8":	450,000 (15,000)
<b>Flammability:</b>	Will Not Burn
<b>Bacterial Growth:</b>	Will Not Support

### TYPICAL PHYSICAL PROPERTIES\*

<b>ASTM F36</b>	<b>Compressibility, %:</b>	4-9 <sup>(3)</sup>
<b>ASTM F36</b>	<b>Recovery, %:</b>	45 <sup>(3)</sup>
<b>ASTM F38</b>	<b>Creep Relaxation, %:</b>	20 <sup>(3)</sup>
<b>ASTM F152</b>	<b>Tensile, Across Grain, psi (N/mm<sup>2</sup>):</b>	5000 (34) <sup>3</sup>
<b>ASTM D1708</b>	<b>Modulus @ 100% Elongation, psi (N/mm<sup>2</sup>):</b>	N/A
<b>ASTM F433</b>	<b>Thermal Conductivity (K), W/m°K (Btu·in./hr·ft.<sup>2</sup>·°F):</b>	0.36-0.45 (2.50-3.15)
<b>ASTM F586</b>	<b>Design Factors</b>	
	"m" factor:	1/16" & Under 5.0 1/8" 5.0
	"y" factor, psi (N/mm <sup>2</sup> ):	3500 (24.1) 4000 (27.6)
<b>ASTM F104</b>	<b>Line Call Out:</b>	F451999A9B4E99K6M6 <sup>(3,4)</sup>

### SEALING CHARACTERISTICS\*

	<b>ASTM F37B Fuel A</b>	<b>DIN 3535- 4 Gas Permeability</b>
<b>Gasket Load</b> , psi (N/mm <sup>2</sup> ):	1000 (7)	4640 (32)
<b>Internal Pressure</b> , psig (bar):	9.8 (0.7)	580 (40)
<b>Leakage</b>	0.02 <sup>(3)</sup> ml/hr.	<0.015 <sup>(3)</sup> 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.

\* Values do not constitute specification Limits

<sup>1</sup> See Garlock chemical resistance guide.

<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 P x T, consult Garlock Applications Engineering.

<sup>3</sup> Tested on 1/16" thick material.

<sup>4</sup> Tested on 1/16" material. 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/mm<sup>2</sup>), 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.