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GYLON® Style 3502 – OXYGEN SERVICE

MATERIAL PROPERTIES*:

Color:	Fawn
Composition:	PTFE with silica
Fluid Services (see chemical resistance guide):	Oxygen service, solvents, hydrocarbons, strong acids (except hydrofluoric), steam, chlorine and cryogenics
Temperature¹, °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Ideal Operating Limit:	+400 (+204)
Pressure¹, psig (bar):	
Minimum:	Full Vacuum
Maximum:	1200 (83)
Ideal Operating Limit:	750 (52)
P x T (max.)¹, psig x °F (bar x °C):	
1/32 and 1/16":	350,000 (12,000)
1/8":	250,000 (8,600)
Flammability:	Will Not Support Flame
Bacterial Growth:	Will Not Support
Meets Specifications:	FDA (Food and Drug Administration) and USDA (US Department of Agriculture)

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:	7-12	
ASTM F36	Recovery, %:	40	
ASTM F38	Creep Relaxation, %:	18	
ASTM D1708	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

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	DIN 3535 – Nitrogen
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

¹ 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. Minimum temperature rating is conservative.

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