

GYLON® Style 3540

MATERIAL PROPERTIES*:

Color:	White
Composition:	Microcellular PTFE
Fluid Services (see chemical resistance guide):	Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-lined equipment
Temperature ¹ , °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Ideal Operating Limit:	+400 (+204)
Pressure ¹ , 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) 21 CFR 177.1550

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility , average, %:	70-85	
ASTM F36	Recovery , %:	8	
ASTM F38	Creep Relaxation , %:	10	
ASTM D149	Dielectric Properties , range, volts/mil.		
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F	86	61
	96 hours at 100% Relative Humidity:	16	-
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>
	"m" factor:	3.0	3.0
	"y" factor, psi (N/mm ²):	1700 (11.7)	2200 (15.2)
ROTT	Gasket Constants:		
	1/16"	Gb=550	a=0.304 Gs=7.6x10 ⁻¹

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	DIN 3535 – Nitrogen
Gasket Load , psi (N/mm ²):	1000 (7)	4640 (32)
Internal Pressure , psig (bar):	9.8 (0.7)	580 (40)
Leakage	0.25 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 PxT, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

8/15/2023