

GYLON® Style 3530

MATERIAL PROPERTIES*:

Color:	Black
Composition:	PTFE with graphite
Fluid Services (see chemical resistance guide):	
Temperature¹, °F (°C)	-450 (-268)
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):	350,000 (12,000)
1/32 and 1/16":	250,000 (8,600)
1/8"	
Flammability:	Will Not Support Flame
Bacterial Growth:	Will Not Support

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:	7-17
ASTM F36	Recovery, %:	40
ASTM F38	Creep Relaxation, %:	29
ASTM D1708	Tensile, Across Grain, psi (N/mm²):	3000 (21)
ASTM D792	Specific Gravity:	2.16
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm²):	2000 (13.8)
ASTM D149	Dielectric Properties, range, volts/mil.	
	Sample conditioning	<u>1/16"</u> <u>1/8"</u>
	3 hours at 250°F	<2 -
	96 hours at 100% Relative Humidity:	- -
ASTM F586	Design Factors	<u>1/16" & Under</u> <u>1/8"</u>
	"m" factor:	2.8 2.0
	"y" factor, psi (N/mm ²):	1650 (11.4) 1650 (11.4)

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	0.02 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