GYLON® Gasketing

Typical Physical Properties*

GYLON® Styles	3500	3504	3510	3530	3540	3545	
Color	Fawn with black brand	Blue with black brand	Off-white with black brand	Black with no brand	White with black brand	White with black brand	
Composition	PTFE with silica	PTFE with glass microspheres	PTFE with barium sulfate	PTFE with graphite	Microcellular PTFE	Microcellular PTFE	
Temperature[1] Minimum Cont. max.	-450°F (-268°C) +500°F (+260°C)	-450°F (-268°C) +500°F (+260°C)	-450°F (-268°C) +500°F (+260°C)	-450°F (-268°C) +500°F (+260°C)	-450°F (-268°C) +500°F (+260°C)	-450°F (-268°C) +500°F (+260°C)	
Pressure, psig Cont. max.[1] (bar)	1,200 (83)	800 (55)	1,200 (83)	1,200 (83)	1,200 (83)	1,200 (83)	
P x T, max.[1] 1/32", 1/16" (0.8 mm,1.6 mm) psig x °F 1/8" (bar x °C) (3.2 mm)	350,000 (12,000) 250,000 (8,600)	350,000 (12,000) 250,000 (8,600)	350,000 (12,000) 250,000 (8,600)	350,000 (12,000) 250,000 (8,600)	350,000 (12,000) 250,000 (8,600)	350,000 (12,000) 250,000 (8,600)	
Sealability **ASTM Fuel A** ml/hr (ASTM F37B)[3]	0.22	0.12	0.04	0.02	0.25	0.15	
Gas Permeability cc/min. (DIN 3535 Part 4)[4]	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	< 0.015	
Creep Relaxation % (ASTM F38)	18	40	11	29	10	15	
Compressibility Range (ASTM F36) %	7-12	25-45	4-10	7-17	70-85	60-70	
Recovery % (ASTM F36)	>40	>30	>40	>40	>8	>15	
Tensile Strength psi (ASTM D1708) (N/mm^2)	2,000 (14)	2,000 (14)	2,000 (14)	3,000 (21)	—	—	
Flammability	Will not support flame						
Bacterial Growth	Will not support						

Notes:

1 Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, temperature or 50% of maximum PxT, consult Garlock Engineering. For Styles HP 3560 and HP 3561, consult Garlock if approaching maximum temperature, or 50% of maximum pressure or P x T.

2 For HP 3560 and HP 3561, 1/16" thickness only; for 3535, 1/4" thickness only.

3 ASTM F37B Sealability, milliliters/hour (1/32" thick)
ASTM Fuel A (isooctane):
Gasket load = 1,000 psi (7 N/mm^2),
Internal pressure = 9.8 psig (0.7 bar)

4 DIN 3535 Part 4 Gas Permeability, cc/min. (1/16" thick)
Nitrogen: Internal pressure = 580 psig (40 bar),
Gasket load = 4,640 psi (32 N/mm^2)

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, except Style 3565, based on 1/16" (1.6mm).

*** Values do not constitute specification limits**

WARNING:
Properties/applications shown throughout this brochure are typical. Your specific application should not be undertaken without independent study and evaluation for suitability. For specific application recommendations consult Garlock. Failure to select the proper sealing products could result in property damage and/or serious personal injury.

Performance data published in this brochure has been developed from field testing, customer field reports and/or in-house testing.

While the utmost care has been used in compiling this brochure, we assume no responsibility for errors. Specifications subject to change without notice. This edition cancels all previous issues. Subject to change without notice.