Garlock
SEALING TECHNOLOGIES®
an EnPro Industries company

GYLON gen2

Garlock GREEN GYLON® 3594

MATERIAL PROPERTIES*

Color:	Green
Composition:	PTFE with inorganic filler
Fluid Services[1]:	Moderate concentrations of acids, some caustics, hydrocarbons, solvents, hydrogen peroxide, refrigerants and cryogenics
Temperature[2], °F (°C)	
Minimum:	-450 (-268)
Continuous Max:	+500 (+260)
Pressure[2], Maximum, psig (bar):	800 (55)
P x T (max.)[2], psig x °F (bar x °C)	
1/32 and 1/16":	350,000 (12,000)
1/8":	250,000 (8,600)
Flammability:	Will Not Burn
Bacterial Growth:	Will Not Support
Meets Specification:	FDA (Food and Drug Administration)

TYPICAL PHYSICAL PROPERTIES*

ASTM F36	**Compressibility**, %:	10-20		
ASTM F36	**Recovery**, %:	45		
ASTM F38	**Creep Relaxation**, %:	30		
ASTM F152	**Tensile**, Across Grain, psi (N/mm^2):	2000 (13.8)		
ASTM D792	**Specific Gravity**:	2.10		
ASTM D149	**Dielectric Properties**, range, volts/mil.			
	Sample conditioning	1/16"	1/8"	
	None	357	-	
	96 hours at 100% Relative Humidity	-	-	
ASTM F586	**Design Factors**	1/16" & Under	1/8"	
	"m" factor:	3.0	3.0	
	"y" factor, psi (N/mm^2):	1650 (11.4)	2500 (17.2)	
ROTT	**Gasket Constants**, 1/16":	Gb=151	a=0.41	Gs=1.64x10^{-5}
	1/8":	Gb=66	a=0.523	Gs=4.98x10^{-6}
ASTM F104	**Line Call Out**:	F453111A9B5E11M6[(3)]		

SEALING CHARACTERISTICS*

	ASTM F37B Fuel A	ASTM F37B Nitrogen
Gasket Load, psi (N/mm2):	1000 (7)	3000 (20)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)
Leakage	**0.5 ml/hr.**	**0.1 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 1/32" (0.8mm) sheet thickness unless otherwise mentioned.

* Values do not constitute specification Limits

[1] See Garlock chemical resistance guide.

[2] 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.

[3] A9: Leakage in Fuel A (Isooctane), Gasket Load = 1,000psi (7.0N/mm^2), Pressure = 9.8psig (0.7bar): Typical = 0.50ml/hr. A9: Leakage in Nitrogen, Gasket Load = 3,000psi (20.7N/mm2), Pressure = 30psig (2bar): Typical = 0.1ml/hr.