D&D ENGINEERED PRODUCTS

Garlock SEALING TECHNOLOGIES®

GYLON® Style 3545

www.ddenginc.com

Material Properties*

Color:	White
Composition:	Microcellular PTFE
Fluid Services (See chemical resistance guide):	Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-lined equipment and low bolt load applications[2]
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)
PxT (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 Suport
Meets Specifications:	ABS (American Bureau of Shipping), FDA (Food and Drug Administration) 21 CFR 177.1550

Typical Physical Properties*

ASTM F36	**Compressibility,** average, %:	60-70		
ASTM F36	**Recovery,** %:	15		
ASTM F38	**Creep Relaxation,** %:	15		
ASTM D149	**Dielectric Properties,** range, volts/mil.			
	Sample conditioning	1/16"	1/8"	
	3 hours at 250°F	248	244	
	96 hours at 100% Relative Humidity:	222	264	
ASTM F586	**Design Factors**	1/16" & Under	1/8"	
	"m" factor:	2.6	2.0	
	"y" factor, psi (N/mm²):	1500 (10.3)	2200 (15.2)	
ROTT	**Gasket Constants**			
	1/16":	Gb = 162.1	a = 0.379	Gs = 1.35×10^{-9}
	1/8":	Gb = 92.48	a = 0.468	Gs = 2.50×10^{-3}
	3/16":	Gb = 628	a = 0.249	Gs = 7.93×10^{-5}

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	**0.15 ml/hr**	**<0.015 cc/min**

* This is a general guide and should not be 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 D&D Engineered Products. Minimum temperature rating is conservative.

[2] For flat face flanges, a minimum compression stress of 1500psi (103N/mm2) is recommended on the contacted gasket area for 150psig (10.4bar) liquid service. Consult with the flange manufacturer to confirm that adequate compressive stress is available.

PACKING • SEALS • GASKETS • COMPONENTS

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