

Material Properties*

Color:	White
Composition:	Microcellular PTFE
Fluid Services (See chemical resistance guide):	Strong caustics, strong acids, chlorine, hydrocarbons, cryogenics, glass-lined equipment
Temperature¹, °F (°C)	
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)
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 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	1/16"	1/8"	
	3 hours at 250°F	86	61	
	96 hours at 100% Relative Humidity:	16	-	
ASTM F586	Design Factors	1/16" & Under	1/8"	
	"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 = 7.6 x 10 ⁻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

* 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.