

Material Properties*

Color:	Off-White
Composition:	PTFE with barium sulfate
Fluid Services (See chemical resistance guide):	Strong caustics, moderate acids, chlorine, gases, water, steam, cryogenics, hydrocarbons and aluminum flouride
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:	ABS (American Bureau of Shipping), FDA (Food and Drug Administration) 21 CFR 177.1550

Typical Physical Properties*

ASTM F36	Compressibility, average, %:	4-10	
ASTM F36	Recovery, %:	40	
ASTM F38	Creep Relaxation, %:	11	
ASTM D1708	Tensile, Across Grain, psi (N/mm²):	2000 (13.8)	
ASTM D792	Specific Gravity:	2.80	
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm²):	1400 (9.6)	
ASTM F433	Thermal Conductivity (K), W/m²K (Btu. · in./hr. · ft.². °F):	0.29-0.38 (2.00-2.65)	
ASTM D149	Dielectric Properties, range, volts/mil.		
	Sample conditioning	1/16"	1/8"
	3 hours at 250°F	466 ⁽²⁾	-
	96 hours at 100% Relative Humidity:	59	-
ASTM F586	Design Factors	1/16" & Under	1/8"
	"m" factor:	2.0	2.0
	"y" factor, psi (N/mm ²):	2350 (16.2)	2500 (17.2)
ROTT	Gasket Constants:		
	1/16"	Gb = 289	a = 0.274 Gs = 6.6 x 10 ⁻¹¹
	1/8"	Gb = 444	a = 0.332 Gs = 1.29 x 10 ⁻²

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	0.04 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 Indicates that the current arced around and not through the gasket. Dielectric strength will be higher than published.