

Material Properties*

Color:	Blue
Composition:	PTFE with Aluminosilicate microspheres
Fluid Services (See chemical resistance guide):	Many acids, some caustics, hydrocarbons, solvents, hydrogen peroxide, refrigerants and cryogenics
Temperature¹, °F (°C)	
Minimum:	-450 (-268)
Maximum:	+500 (+260)
Ideal Operating Limit:	+400 (+204)
Pressure¹, psig (bar)	
Minimum:	Full Vacuum
Maximum:	800 (55)
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 and UPS (US Pharmacopeia)

Typical Physical Properties*

ASTM F36	Compressibility, average, %:	25-45	
ASTM F36	Recovery, %:	30	
ASTM F38	Creep Relaxation, %:	40.0	
ASTM D1708	Tensile, Across Grain, psi (N/mm²):	2000 (13.8)	
ASTM D792	Specific Gravity:	1.70	
ASTM D1708	Modulus @ 100% Elongation, psi (N/mm²):	1500 (10.3)	
ASTM F433	Thermal Conductivity (K), W/m²K (Btu. · in./hr. · ft.² · °F):	0.14-0.24 (1.00-1.65)	
ASTM D149	Dielectric Properties, range, volts/mil.		
	Sample conditioning	1/16"	1/8"
	3 hours at 250°F	318	-
	96 hours at 100% Relative Humidity:	245	-
ASTM F586	Design Factors	1/16" & Under	1/8"
	"m" factor:	3.0	2.5
	"y" factor, psi (N/mm ²):	1650 (11.4)	3000 (20.7)
ROTT	Gasket Constants:		
	1/16"	Gb = 183	a = 0.357 Gs = 4.01 x 10 ⁻³
	1/8"	Gb = 1008	a = 0.221 Gs = 2.23

Sealing Characteristics*

	ASTM F37B - Fuel A	DIN 3535 - Nitrogen
Gasket Load <small>psi (N/mm²)</small>	1000 (7)	4640 (32)
Internal Pressure <small>psig (bar)</small>	9.8 (0.7)	580 (40)
Leakage	0.12 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.