

MATERIAL PROPERTIES*:

Color:	Off –White
Composition:	PTFE with barium sulfate
Fluid Services (see chemical resistance guide):	Oxygen service, strong caustics, moderate acids, chlorine, gases, water, steam, hydrocarbons, cryogenics and aluminum fluoride
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)
P x T (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, %:	4-10	
ASTM F36	Recovery , %:	40	
ASTM F38	Creep Relaxation , %:	11	
ASTM D1708	Tensile , Across Grain, psi (N/mm ²):	2000 (13.8)	
ASTM D792	Specific Gravity:	2.80	
ASTM D1708	Modulus @ 100% Elongation , psi (N/mm ²):	1400 (9.6)	
ASTM F433	Thermal Conductivity (K) , W/m ² K (Btu·in./hr·ft. ² ·°F):	0.29-0.38 (2.00-2.65)	
ASTM D149	Dielectric Properties , range, volts/mil.		
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F	466 ⁽²⁾	-
	96 hours at 100% Relative Humidity:	59	-
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>
	"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=6.61x10 ⁻¹¹
	1/8"	Gb=444	a=0.332 Gs=1.29x10 ⁻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

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

¹ Based on ANSI RF flanges at our preferred torque. When approaching maximum pressure, continuous operating temperature, minimum temperature or 50% of maximum P x T, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

² Indicates that the current arced around and not through the gasket. Dielectric strength will be higher than published.

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