Style 5500

MATERIAL PROPERTIES*:

Color:	Gray
Composition:	Inorganic fibers with a nitrile binder
Fluid Services (see chemical resistance guide)**:**	Saturated steam[2], most refrigerants, water, oils, gasoline & aliphatic hydrocarbons
Temperature[1], °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+550 (+288)
Maximum:	+800 (+427)
Pressure[1], Maximum, psig (bar):	1200 (83)
P x T (max.)[1], psig x °F (bar x °C):	
1/32 and 1/16":	400,000 (14,000)
1/8"	275,000 (9,600)
Meets Specifications:	ABS (American Bureau of Shipping) and Fire Safe

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	**Compressibility** , average, %:	10		
ASTM F36	**Recovery**, %:	50		
ASTM F38	**Creep Relaxation,** %:	15		
ASTM F152	**Tensile**, Across Grain, psi (N/mm^2):	1500 (10)		
ASTM F1315	**Density**, lbs./ft.^{3} (grams/cm^3):	100 (1.60)		
ASTM F433	**Thermal Conductivity (K),** W/m°K (Btu.·in./hr.·ft.^{2}·°F):	0.43-0.53 (3.00-3.65)		
ASTM D149	**Dielectric Properties,** range, volts/mil.			
	Sample conditioning	1/16"		1/8"
	3 hours at 250°F	284		245
	96 hours at 100% Relative Humidity:	-		-
ASTM F586	**Design Factors**	1/16" & Under		1/8"
	"m" factor:	6.6		6.6
	"y" factor, psi (N/mm^2):	2600 (17.9)		3300 (22.8)
ROTT	**Gasket Constants**, 1/16":	Gb=1,247	a=0.249	Gs=11.0

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	ASTM F37B - Nitrogen	DIN 3535 – Nitrogen
Gasket Load, psi (N/mm2):	500 (3.5)	3000 (20.7)	4640 (32)
Internal Pressure, psig (bar):	9.8 (0.7)	30 (2)	580 (40)
Leakage	**0.3 ml/hr.**	**1.0 ml/hr.**	**0.05 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 PxT, consult Garlock Applications Engineering. Minimum temperature rating is conservative.

[2] Minimum recommended assembly stress = 4,800psi. Preferred assembly stress = 6,000-10,000psi. Gasket thickness of 1/16" strongly preferred. Retorque the bolts/studs prior to pressurizing the assembly. For saturated steam above 150psig or superheated steam, consult Garlock Engineering.

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