

Style 5507

MATERIAL PROPERTIES*:

Color:	Sand
Composition:	Inorganic fibers with a EPDM binder
Fluid Services (see chemical resistance guide):	Saturated steam ² , water, mild alkalies and mild chemicals
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)

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):	105 (1.68)	
ASTM F433	Thermal Conductivity (K) , W/m ² K (Btu.in./hr.ft. ² .°F):	0.61 (4.27)	
ASTM D149	Dielectric Properties , range, volts/mil.		
	Sample conditioning	<u>1/16"</u>	<u>1/8"</u>
	3 hours at 250°F	396 ⁽⁴⁾	-
	96 hours at 100% Relative Humidity:	-	-
ASTM F586	Design Factors	<u>1/16" & Under</u>	<u>1/8"</u>
	"m" factor:	3.5	5.5
	"y" factor, psi (N/mm ²):	2400 (16.5)	3900 (26.9)

SEALING CHARACTERISTICS*

	ASTM F37B – Fuel A	ASTM F37B - Nitrogen	DIN 3535 – Nitrogen
Gasket Load , psi (N/mm ²):	500 (3.5)	3000 (20.7)	4640 (32)
Internal Pressure , psig (bar):	9.8 (0.7)	30 (2)	580 (40)
Leakage	0.2 ml/hr.	1.0 ml/hr.	0.04 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.

³ Indicates the current arced around and not through the gasket. Dielectric strength is higher than indicated.

REV: 10/11/2016