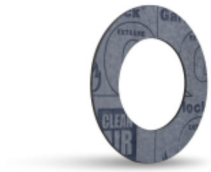
PTFM SEALING YOUR FUTURE

Technical Data Sheet

Asbestos Free

MATERIAL PROPERTIES*: Garlock 9850



Colour:	Black
Composition:	Carbon Fibres with a NBR binder
Fluid Services: (See Chem. Res. Guide)	Saturated steam[2], water, oils, gasoline, aliphatic hydrocarbons and most refrigerants
Temperature[1] , °F (°C)	
Minimum:	-100 (-75)
Continuous Maximum:	+650 (+343)
Maximum:	+900 (+482)
Pressure[1] , Maximum, psig (bar):	2000 (138)
P x T (max.)1 , psig x °F (bar x °C):	
1/32 and 1/16":	700,000 (25,000)
1/8"	350,000 (12,000)
Meets Specifications:	Fire Safe

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	Compressibility, average, %:		8
ASTM F36	Recovery, %:		55
ASTM F38	Creep Relaxation, %:		15
ASTM D1708	Tensile, Across Grain, psi (N/mm^2):		1800 (12)
ASTM F1315	Density lbs/ft^3 (grams/cm^3):		105 (1.68)
ASTM F433	Thermal Conductivity (K), W/m°K (Btu in/hr ft^2 °F):		0.50-0.60 (3.50-4.15)
ASTM D149	Dielectric Properties, range, volts/mil.		
	Sample conditioning	1/16"	1/8"
	3 hours at 250° F	<2	-
	96 hours at 100% Relative Humidity:	-	-
ASTM F586	Design Factors	1/16" & Under	1/8"
	"m" factor:	6.5	8
	"y" factor, psi (N/mm2):	2550 (17.6)	2800 (19.3)
ROTT	Gasket Constants, 1/16":	Gb=1,591 a=0.239	Gs=9.3

	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	0.30 ml/hr.	0.6 ml/hr	0.015 cc/Min

SEALING CHARACTERISTICS*

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 us.

ISOQAR REGISTERED UKAS MANAGEMENT SYSTEMS 0026

Certificate Number: 14352
ISO 9001

UK GASKET & SEALING ASSOCIATION

Care should be taken in selecting the most suitable quality for each application. Advice is available, but final responsibility remains with the customer.

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