LEAK-GARD® Style 3750

MATERIAL PROPERTIES*:

Color:	Red
Composition:	Synthetic fibers with a proprietary rubber binder
Fluid Services (see chemical resistance guide)**:**	Aliphatic hydrocarbons, oils and gasoline
Temperature[1], °F (°C)	
Minimum:	-100 (-73)
Continuous Max:	+400 (+205)
Maximum:	+700 (+371)
Pressure[1], Maximum, psig (bar):	1200 (83)
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)

TYPICAL PHYSICAL PROPERTIES*:

ASTM F36	**Compressibility** , average, %:	10	
ASTM F36	**Recovery**, %:	52	
ASTM F38	**Creep Relaxation,** %:	22	
ASTM F152	**Tensile**, Across Grain, psi (N/mm^2):	3056 (21)	
ASTM D149	**Dielectric Properties,** range, volts/mil.	1/16"	1/8"
	Sample conditioning	496	285
	3 hours at 250°F	-	-
	96 hours at 100% Relative Humidity:		
ASTM F586	**Design Factors**	1/16" & Under	1/8"
	"m" factor:	8.0(2)	7.5(2)
	"y" factor, psi (N/mm^2):	2500 (17.2)(2)	2300 (15.9)(2)

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			

IMMERSION PROPERTIES*- ASTM F146 Fluid Resistance after Five Hours

	ASTM #901 Oil 300°F (150°C)	ASTM #903 Oil 300°F (150°C)	ASTM Fuel A 70-85°F (20-30°C)	ASTM Fuel B 70-85°F (20-30°C)
Thickness Increase, (%)	<22.5(3)	<66.4(3)	-	<22(3)
Weight Increase, (%)	-	-	-	-
Tensile Loss (%)	-	-	-	-

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] The values shown are based on nitrogen (gas). Values would be lower if tests with oils or fuels.

[3] Thickness measured with a 9 oz. weight before immersion and 3 oz. after immersion.

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