TECHNICAL DATA SHEET

Queensland Gaskets

LAMONS | L110 MATRIX



L110 is a superior performance biaxally orientated PTFE gasket material with the addition of a Barium Sulphate filler system.

L110 is used in sealing food, pharmaceuticals and other chemical media, please refer to Matrix chemical resistance data. The material complies with the requirements of FDA regulations and is acceptable for use in aqueous hydrofluoric acid below 49%, but is not suitable for sealing molten alkali metals or fluorine gas.

APPROVALS:

Complies with the requirements of FDA21 CFR 177.1550, TA-LUFT

Test information is available for: HOBT, ROTT, EN 13555, **BAM (Oxygen approval)**

OPERATING LIMITATIONS

Minimum Temperature: -450°F (-268°C)
Maximum Temperature: 500°F (260°C)
Maximum Pressure: 1235 psi (8.5 MPa)

Matrix L110 Thickness Range:

1/32" (0.8 mm) to 1/4" (6.4 mm)

TYPICAL PHYSICAL PROPERTIES (ASTM)

F36 Compression	6%
F36 Recovery	40%
F152 Tensile Strength	2030 psi (14 MPa)
F37 Liquid Leakage	<0.02 mL/hr
F38 Creep Relaxation	13%
F149 Dielectric Strength	21 kV/mm

TYPICAL PHYSICAL PROPERTIES (OTHER)

Density	180 lbs/ft^3 (2.9 g/cc)
Residual Stress BS7531 @ 175°C	4351 psi (30 MPa)
Gas Leakage (DIN 3535)	<0.01 cc/min
Gas Leakage - BS7531	<0.004 mL/min
ROTT Constant Gb	146
ROTT Constant a	0.375
ROTT Constant Gs	1.2
Tpmax	60460
m	2
y	1740 psi (12 MPa)

Date created 08/10/2020

Contact us to discuss requirements and place your order 07 3277 3922

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