

L104 MATRIX



Sealing Global - Servicing Local

Description:

L104 is a superior performance biaxially orientated PTFE gasket material with the addition of Hollow Glass Microspheres.

Applications:

L104 can be used to seal most chemicals except molten alkali metals, fluorine gas and hydrogen fluoride. please refer to Matrix chemical resistance data.

L104 is approved for potable water service, complies with requirements of FDA regulations and has exceptional compression characteristics making it ideal for glass lined flanges or where loading problems exist.

Approvals:

Complies with the requirements of FDA21 CFR 177.1550
Test information is available for ROTT

Operating Limitations

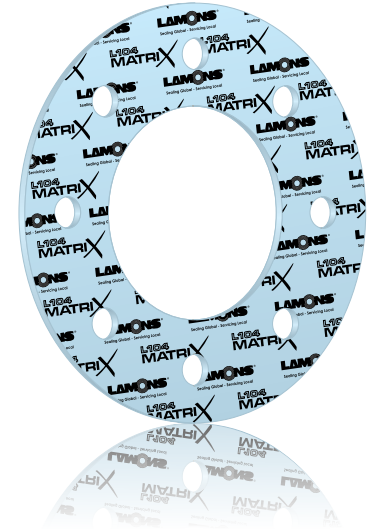
Minimum Temperature: -450°F (-268°C)

Maximum Temperature: 500°F (260°C)

Maximum Pressure: 1235 psi (8.5 MPa)

Matrix L104 Thickness Range:

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



Typical Physical Properties (ASTM)

| | |
|--------------------------|-------------------|
| F36 Compression | 35% |
| F36 Recovery | 45% |
| F152 Tensile Strength | 1885 psi (13 MPa) |
| F37 Liquid Leakage | <0.25 mL/hr |
| F38 Creep Relaxation | 31% |
| F149 Dielectric Strength | 15 kV/mm |

Typical Physical Properties (Other)

| | |
|--------------------------------|--------------------------------------|
| Density | 87 lbs/ft ³ (1.4 g/cc) |
| Residual Stress BS7531 @ 175°C | 4351 psi (30 MPa) |
| Gas Leakage (DIN 3535) | <0.02 mg/(s-m) |
| Gas Leakage - BS7531 | <0.01 mL/min |
| ROTT Constant Gb | 100 |
| ROTT Constant a | 0.401 |
| ROTT Constant Gs | 2.87 x 10 ⁻⁵ |
| Tpmax | 33240 |
| m | 2 |
| y | 1595 psi (11 MPa) |

