

# MATRI

Premium Biaxially Oriented  
PTFE Gasket Sheet Material



*Maximum Stability  
Excellent Load Retention  
Outstanding Chemical Resistance*

## Matrix Grade L104

Lamons Matrix gasketing material is a premium sealing material specifically designed for use in critical piping systems where superior chemical resistance and performance is required. Produced using the HS10 method developed by DuPont® in 1960, the result is a material that has exceptional strength and stability under load. The resultant biaxial orientation of the PTFE particles creates a unique strength where both the longitudinal and transverse directions are equally as strong. This superior matrix orientation and addition of premium fillers allows the material to resist creep and cold flow when subjected to load.

**Matrix L104** is a superior performance, biaxially orientated gasket sheet material containing PTFE and hollow glass microspheres for use in sealing most chemicals except molten alkali metals, fluorine gas and hydrogen fluoride. This material is approved for potable water service, complies with the requirements of FDA regulations of the United States and has exceptional compression characteristics making it good for use in glass lined flanges or where loading problems exist.

### Typical Properties

Colour	:	Blue	
Density	:	1.4 gms/cm <sup>3</sup>	
Temperature Limits	:	-268°C to 260°C	
Pressure - Maximum	:	85.2 Bar (1,235 psi)	
Compression	:	35%	ASTM F36
Recovery	:	45%	ASTM F36
Tensile Strength	:	13 MPa	ASTM F152
Liquid Leakage	:	<0.25 mL/hr	ASTM F37
Creep Relaxation	:	31%	ASTM F38
Dielectric Strength	:	15 kV/mm	ASTM F149
Residual Stress @ 175°C	:	30 MPa (4,351 psi)	BS7531
DIN Residual Stress @ 175°C	:	30 MPa (4,351 psi)	
Gas Leakage	:	<0.02 mg/(s-m)	DIN 3535
Gas Leakage	:	<0.01 mL/min	BS7531
ROTT Constant G <sub>b</sub>	:	23	
ROTT Constant a	:	0.322	
ROTT Constant G <sub>s</sub>	:	6.42 x 10 <sup>-3</sup>	
Tp max	:	16,370	
m Factor	:	2	
y Factor	:	11 MPa	

Complies with the requirements of FDA21 CFR 177.1550 & TA-LUFT. Test information is available for: HOBT, ROTT, EN 13555

Matrix is a product of Lamons Gasket Co. Houston, Texas



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