AtlasFibre

LINEN PHENOLIC

LE

MIL-I-24768/13 · TYPE FBE

PHYSICAL DATA

	IMPERIAL	METRIC
Specific Gravity	1.34	–
Tensile Strength	13,000 psi	89 MPa
Compressive Strength	36,000 psi	248 MPa
Flexural Strength	18,000 psi	124 MPa
Hardness - M Scale	100	–
Bond Strength	1,900 psi	13 MPa
Shear Strength	13,500 psi	93 MPa
Flammability Rating	94HB	–
Maximum Operating Temperature	257°F	125°C
Coefficient of Thermal Expansion °C (x 10-5)	1.80	–
Water Absorption - 24 hours	1.90	–
Izod Impact Strength @ 49°C -LW	1.35	–

ELECTRICAL DATA

	IMPERIAL	METRIC
Dissipation Factor - 106 cycles Condition A	0.65	–
Dielectric Constant - 106 cycles Condition A	5.70	–
Electric Strength V/MIL Condition A	625	–
Dielectric Breakdown -A	–	–
Permittivity -A	–	–

Atlas Fibre LLC provides this data as information only and does not imply any warranty for its use or application. Test data for an individual batch or product must be requested specifically and agreed to in writing and is available for a fee.

PRODUCT DESCRIPTION

Laminate sheet comprised of a phenolic resin and a woven linen (cotton) substrate. This Linen Phenolic material qualifies to NEMA LE and MIL-I-24768/13.

With high mechanical strength and exceptional electrical insulation properties in dry or humid environments, this material is versatile for various electrical and mechanical applications due to its ease of fabrication.

AVAILABLE FORMS & STOCK SIZES

LE is stocked in sheet (0.010"–4.000" thick, up to 48" × 96"), rod (Ø 0.062"–6.000") and tube (Ø 0.250"–12.000" ID) in lengths to 48", and is supplied as precision blanks or CNC routed and Swiss-turned machined components.

CERTIFIED & TRACEABLE

Conforms to NEMA LE specifications. Batch test data ships with every order, verified annually by independent third-party lab assessment. No cut-to-size or sanding minimums.

TYPICAL APPLICATIONS

- Precision-machined gears and pinions
- Bushings, bearings and wear pads
- Insulating washers and spacers
- Rotating machinery components
- Terminal boards

REQUEST A QUOTE

Stock Material. Precision Parts.

LE is available from stock, cut to size or precision machined to your specifications. Request a quote or call 847-674-1234 to connect with an Atlas Fibre representative.

atlasfibre.com/material/le