AtlasFibre

PAPER PHENOLIC

XXX

MIL-I-24768/10 · TYPE PBE

PHYSICAL DATA

	IMPERIAL	METRIC
Specific Gravity	1.38	–
Tensile Strength	13,000 psi	89 MPa
Compressive Strength	35,000 psi	241 MPa
Flexural Strength	22,000 psi	151 MPa
Hardness - M Scale	101	–
Bond Strength	1,200 psi	8 MPa
Shear Strength	12,800 psi	88 MPa
Flammability Rating	94HB	–
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C (x 10-5)	1.50	–
Water Absorption - 24 hours	0.57	–
Izod Impact Strength @ 49°C -LW	0.55	–

ELECTRICAL DATA

	IMPERIAL	METRIC
Dissipation Factor - 106 cycles Condition A	0.035	–
Dielectric Constant - 106 cycles Condition A	5.10	–
Electric Strength V/MIL Condition A	700	–
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 phenolic resin and a high alpha saturating paper substrate. XXX qualifies to NEMA XXX and MIL-I-24768/10.

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

XXX 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 XXX 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

- Terminal boards and insulating panels
- High-humidity electrical insulation
- Radio-frequency and electronic components
- Punched and machined insulating parts
- Switch and relay bases

REQUEST A QUOTE

Stock Material. Precision Parts.

XXX 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/xxx