AtlasFibre

PAPER PHENOLIC

XX

MIL-I-24768/11 · TYPE PBG

PHYSICAL DATA

	IMPERIAL	METRIC
Specific Gravity	1.35	–
Tensile Strength	17,000 psi	117 MPa
Compressive Strength	35,000 psi	241 MPa
Flexural Strength	34,000 psi	234 MPa
Hardness - M Scale	120	–
Bond Strength	1,500 psi	10 MPa
Shear Strength	11,500 psi	79 MPa
Flammability Rating	94HB	–
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C (x 10-5)	1.20	–
Water Absorption - 24 hours	2.00	–
Izod Impact Strength @ 49°C -LW	0.80	–

ELECTRICAL DATA

	IMPERIAL	METRIC
Dissipation Factor - 106 cycles Condition A	0.040	–
Dielectric Constant - 106 cycles Condition A	5.30	–
Electric Strength V/MIL Condition A	750	–
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 binder and a saturating kraft (paper) substrate. It qualifies to NEMA XX and MIL-I-24768/11.

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

XX 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 XX 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

- Electrical insulating panels and washers
- Terminal boards and switch bases
- Punched insulating components
- Coil and transformer insulation
- General-purpose machined parts

REQUEST A QUOTE

Stock Material. Precision Parts.

XX 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/xx