



Paper Bakelite P1

RIGID INSULATION FOR MECHANICAL OR LOW VOLTAGE APPLICATIONS

Paper Bakelite P1 is a phenolic paper rigid laminate for use as a general purpose mechanical grade material, where electrical properties are secondary.

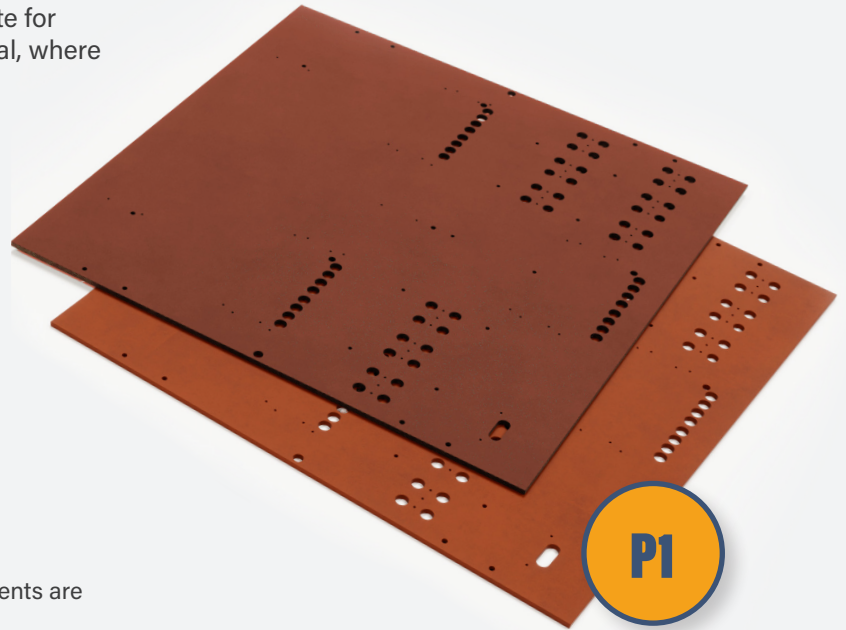
It has the highest mechanical strength of the paper-phenolic materials, but has poor electrical properties under normal humidity.

Features

- Excellent mechanical strength
- High impact strength
- Good machinability

Applications

- Mechanical applications where electrical requirements are secondary
- Low voltage applications
- Suited to dry environments - discretion should be used in high humidity or moisture environments



Technical Information

Material: Electrical Grade Paper Bonded with Phenolic Resin

Colour: Brown

Sizing and Machining

Standard Sheet Size: 1,220mm x 2,470mm
1,020mm x 2,040mm

Nominal Thickness: 0.8mm to 57.0mm

Tolerances: According to IEC or NEMA standards

We provide a full machining and fabrication service, delivering everything from cut-to-order sheets to complex fully-finished components. Available for short-run or volume-based orders.

Technical Data	Units	Value
Density	g/cm ³	1.3 to 1.4
Flexural Strength	MPa	120
Insulation Resistance after impregnation in water (D-24/23)	MΩ	10.0
Dielectric strength at 90±2°C in transformer oil perpendicular to laminations (thickness 1mm)	kV/mm	12.1
Breakdown voltage at 90±2°C in transformer oil parallel to laminations	kV	20
Permittivity (1 MHz)	-	5.5
Dissipation Factor (1 MHz)	-	0.05
Water Absorption (D-24/23, thickness 1.6mm)	mg	230



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