



# Paper Bakelite P3

RIGID INSULATION FOR MECHANICAL OR ELECTRICAL APPLICATIONS

Paper Bakelite P3 is a phenolic paper rigid laminate, suited to both mechanical and electrical applications. P3 has the best electrical properties of the paper phenolics, including high dielectric strength.

## Features

- Good mechanical strength
- High dielectric strength in transformer oil
- Low loss factor
- Good machinability

## Applications

- Mechanical and electrical applications
- High voltage applications
- Tap switches



## Technical Information

**Material:** Electrical Grade Paper Bonded with Phenolic Resin

**Colour:** Brown

## Sizing and Machining

**SHEET Size:** 1,220mm x 2,440mm  
1,300mm x 3,050mm

**Nominal Thickness:** 3.0mm to 25.0mm

**ROD Length:** 1,000mm

**Diameter:** 19mm

**TUBE Length:** 1,000mm

**Outer Diameter:** 12.7mm to 37.0mm

**Inner Diameter:** 10.5mm to 31.67mm

**Tolerances:** According to IEC or NEMA standards

Technical Data	Units	Value
Density	g/cm <sup>3</sup>	1.3 to 1.4
Flexural Strength	MPa	130
Insulation Resistance after impregnation in water (D-24/23)	MΩ	10
Dielectric strength at 90±2°C in transformer oil perpendicular to laminations	kV/mm	12.7
Breakdown voltage at 90±2°C in transformer oil parallel to laminations	kV	22
Water Absorption (thickness 3.0mm)	mg	265

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.



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