

# P1 Paper

BAKELITE –

PHENOLIC PAPER COMPOSITE

PRECISION ENGINEERED PHENOLIC  
FOR EVERYDAY APPLICATIONS.

DURABILITY | ACCURACY | VALUE.



## Key Features

- Excellent Electrical Insulation – Provides reliable dielectric strength and surface resistance
- High Mechanical Strength – Strong and rigid with good compressive and flexural properties
- Smooth, Hard Surface – Consistent finish suitable for electrical panels, terminal boards, and precision-machined components.
- Heat Resistant – Performs effectively up to 120 °C continuous service temperature.
- Low Moisture Absorption – Maintains electrical insulation even in humid or variable conditions.
- Oil and Chemical Resistance – Resistant to transformer oils, lubricants, and mild cleaning agents.



## Applications

- Electrical switchboards and control panels
- Terminal boards, mounting plates, and back panels
- Electrical spacers, supports, and insulating components
- Transformer and motor insulation plates
- Fixture bases and jigs for electrical assemblies
- Gear blanks, pulleys, and low-speed mechanical parts
- Arc barriers and slot wedges in motors
- Structural insulation in low- to medium-voltage equipment
- Template and prototype tooling for general fabrication
- Insulating gaskets, washers, and bushings



## Product Details

Property	Value
Material	Phenolic Paper Composite (Bakelite)
Thickness Range	0.5 mm to 50 mm (others on request)
Standard Colour	Brown (others on request)
Surface Finish	Smooth, hard finish with fine paper weave texture
Machining	CNC compatible; suitable for drilling, routing, shaping



P1 Paper Bakelite is a rigid phenolic paper composite with excellent electrical insulation, good mechanical strength, and easy machinability.

Ideal for panels, spacers, and general electrical applications up to 120 °C.



MISCO Australia offers in-house CNC machining to tailor sheets to your specifications:

- Accepted file formats: DXF, DWG, PDF
- Physical sample reverse engineering available
- Cut, drilled, slotted, profiled, and deburred parts.
- Batch or one-off production available on request.

- ✓ Switchboard Builders
- ✓ Transformer Manufacturing
- ✓ Power Generation
- ✓ Rail Infrastructure
- ✓ Renewable Energy
- ✓ Energy

- ✓ Industrial Machinery
- ✓ Defence
- ✓ Manufacturing
- ✓ Oil and Gas
- ✓ Automotive & Aerospace
- ✓ Electrical and Electronics

