

F2 FABRIC

BAKELITE –
PHENOLIC FABRIC COMPOSITE

RELIABLE INSULATION.
PROVEN PERFORMANCE

STRONG | STABLE | RELIABLE.



Key Features

- High mechanical and impact strength
- Excellent dimensional stability under load
- Good electrical insulation properties (dry conditions)
- Superior machinability and threading capability
- Low moisture absorption and thermal expansion
- High resistance to oils, greases, and coolants
- Noise-dampening and non-sparking properties
- Consistent performance across a wide temperature range
- Asbestos-free and compliant with modern environmental standards



Applications

- Transformer and motor slot wedges
- Bushes, gears, bearing cages, and mechanical spacers
- Insulating components for switchgear and control panels
- Structural and load-bearing electrical insulation parts
- Jigs, fixtures, and mechanical tooling plates
- Support components in automotive and rail equipment
- Noise-reducing and vibration-absorbing mechanical parts
- Industrial and defence-grade machine components



Product Details

Property	Value
Material	Cotton Fabric-Reinforced Phenolic Composite
Thickness Range	0.5 mm to 50 mm (others on request)
Standard Colour	Brown (others on request)
Surface Finish	Smooth and resin-rich, displaying a uniform brown colour with visible fine cotton weave texture
Machining	CNC compatible; suitable for drilling, routing, shaping



F2 Fabric Bakelite is a high-strength thermoset composite made from woven cotton fabric impregnated with phenolic resin and hot-pressed into rigid sheets.

It offers a balanced combination of mechanical durability, wear resistance, and electrical insulation suitable for dry operating environments.



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

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

