



Fabric Bakelite F3

RIGID LAMINATE FOR MECHANICAL APPLICATIONS

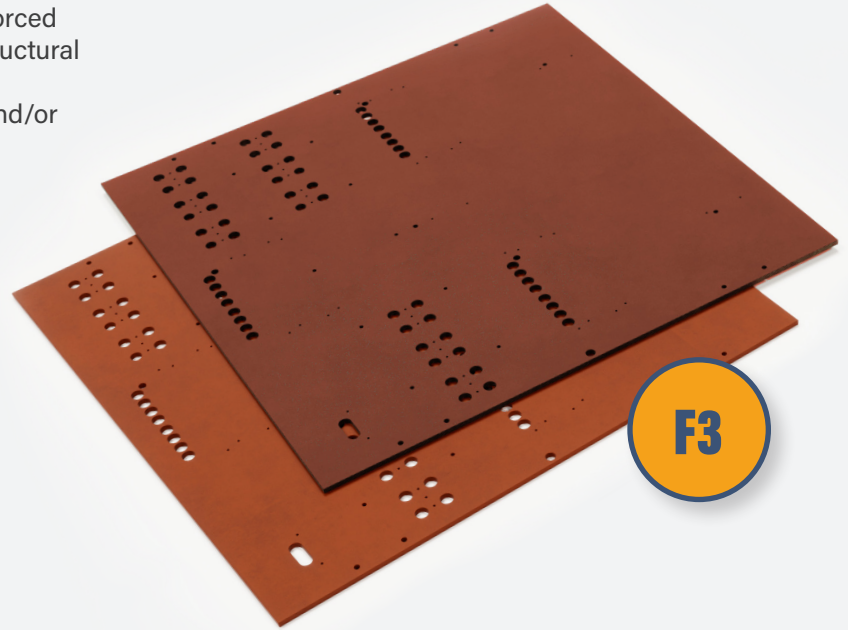
Fabric Bakelite F3 is a phenolic rigid laminate reinforced by a fine woven cloth, for use in mechanical and structural applications. The fine weave of the cloth makes it especially useful for use fabricating smaller parts and/or where close machining tolerances are required.

Features

- Good mechanical strength
- Excellent machinability
- Toughness

Applications

- Mechanical and electrical applications
- Close tolerance machining
- Small mechanical parts
- Fixture plates
- Jig models
- Fine gears



Technical Information

Material: Woven Cloth Bonded (fine) with Phenolic Resin

Colour: Brown

Sizing and Machining

Standard Sheet Size: 1,020mm x 2,040mm
1,220mm x 2,440mm

Nominal Thickness: 1.5mm to 76.0mm

Tolerances: According to IEC or NEMA standards

Technical Data	Units	Value
Density	g/cm ³	1.4 to 1.5
Flexural Strength	MPa	110
Impact Strength, parallel to laminations (Charpy)	kJ/m ²	7.0
Insulation Resistance after impregnation in water (D-24/23)	MΩ	1
Dielectric strength at 90±2°C in transformer oil perpendicular to laminations (thickness 1mm)	kV/mm	0.82
Breakdown voltage at 90±2°C in transformer oil parallel to laminations	kV	1.0
Water Absorption (D-24/23, thickness 1.6mm)	mg	220

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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