

G10 / FR4

EPOXY GLASS

High Strength, High Performance

RELIABLE | RIGID | ELECTRICALLY SAFE



Key Features

- Excellent Electrical Insulation (even in humid conditions)
- High Mechanical Strength
- Outstanding Chemical Resistance
- Very Low Moisture Absorption
- Flame Retardant (FR4 = UL 94 V-0)
- Good Dimensional Stability
- Non-Conductive
- High Dielectric Strength
- Easy to Machine and Fabricate
- Temperature Resistance up to ~140°C
- Smooth Finish – Suitable for precision components



Applications

- Switchboard Components – insulators, busbar supports, arc barriers.
- Transformer Spacers and Structures
- High-Voltage Insulation Panels
- Electrical Equipment Backing and Mounting Plates
- Rail and Automotive Electrical Insulation
- Aerospace Components – where strength, weight, and non-conductivity are critical.
- Control Cabinets and Enclosures
- Marine Electrical Systems – due to moisture and corrosion resistance
- Machined Electrical and Mechanical Parts



Product Details

Property	Value
Material	Woven Glass Cloth with Epoxy Resin
Thickness Range	0.5 mm to 50 mm+ (custom on request)
Standard Colour	Green (Natural) Other colours optional
Surface Finish	Smooth, clean finish
Machining	CNC compatible; suitable for drilling, routing, shaping



G10 / FR4 epoxy glass is a high-pressure composite material made from woven glass cloth reinforced with epoxy resin. Manufactured under heat and pressure, it forms a tough, rigid sheet with outstanding electrical insulation, mechanical durability, and chemical resistance.



MISCO Australia offers in-house CNC machining to tailor G10 / FR4 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
- ✓ Construction
- ✓ Oil and Gas
- ✓ Electrical and Electronics

