

# G11 / FR5

## EPOXY GLASS

RELIABLE INSULATION.  
PROVEN PERFORMANCE.

HIGH STRENGTH | HIGH TEMPERATURE | ELECTRICAL RELIABILITY



### Key Features

- High mechanical strength at elevated temperatures.
- Excellent dielectric insulation and electrical reliability.
- Flame-retardant (FR5) – UL 94 V-0 rated.
- Heat-resistant – continuous use up to 180 °C (Class H).
- Dimensional stability under thermal and electrical load.
- Low moisture absorption – maintains insulation in humid conditions.
- Chemical and solvent resistant – epoxy matrix offers superior durability.
- Halogen- and asbestos-free; RoHS 3 and REACH compliant.



### Applications

- Switchboards & Control Panels – Barriers, supports, busbar insulation plates.
- Transformers & Reactors – Coil spacers, wedges, top/bottom boards.
- Motors & Generators – Slot wedges, end rings, support blocks.
- Power Distribution – Busbar supports, high-voltage barriers, arc plates.
- Aerospace & Defence – Structural insulation, flame-resistant electrical panels.
- Rail & Transport – Insulating brackets, switchgear panels, mounting plates.
- Renewable Energy Systems – Electrical insulation in turbines and converters.



### Product Details

Property	Value
Material	Epoxy resin reinforced with woven glass cloth
Thickness Range	0.5 mm to 60 mm (others on request)
Standard Colour	Natural green or yellow - green.
Surface Finish	Smooth, semi-gloss finish on both faces
Machining	CNC compatible; suitable for drilling, routing, shaping



G11 / FR5 Epoxy Glass is a premium-grade electrical insulation material engineered for high-performance applications. Produced from woven glass cloth impregnated with a high-temperature epoxy resin system, it offers exceptional mechanical strength, dielectric performance, and dimensional stability under heat and load.



MISCO Australia offers in-house CNC machining to tailor G11 / FR5 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
- ✔ Construction
- ✔ Manufacturing
- ✔ Oil and Gas
- ✔ Automotive & Aerospace
- ✔ Electrical and Electronics

