

GLASS EPOXY G-11

High-Temperature Glass-Reinforced Epoxy Laminate (NEMA G-11)

Engineered glass-epoxy laminate. Made to perform, machined to spec.

Glass-fiber reinforced epoxy laminate combines woven E-glass cloth with an epoxy resin binder, producing a dimensionally stable composite with high mechanical strength, excellent dielectric properties, and broad chemical resistance. It machines cleanly with carbide tooling and is the workhorse insulator for printed-circuit substrates, tooling jigs, and structural electrical hardware.

GENERAL	
Specific gravity	1.82
Flammability rating	94HB
Water absorption 24 hours	0.20

MECHANICAL	
Tensile strength	63,000 psi 430 MPa
Compressive strength	37,000 psi 255 MPa
Flexural strength LW -A 0.125"	75,000 psi 515 MPa
Bond strength	2,200 psi 15 MPa
Shear strength	22,000 psi 150 MPa
Hardness M scale	112
Izod impact strength at 49°C LW	12.00

- NEMA LI 1 – G-10/FR-4 GRADE LAMINATES
- MIL-I-24768/2
- ROHS / REACH

APPLICATIONS

- Aerospace equipment
- Antenna insulators
- Cryogenic insulation
- Circuit board holders
- End plates
- Electrical equipment

STANDARD COLORS

Natural / Black Opaque

OPERATING ENVIRONMENT	
Maximum temperature	180 °C 355 °F