

PHYSICAL DATA

IMPERIAL

METRIC

Specific Gravity	1.82	—
Tensile Strength	37,000 psi	255 MPa
Compressive Strength	63,000 psi	434 MPa
Flexural Strength	75,000 psi	517 MPa
Hardness - M Scale	112	—
Bond Strength	2,200 psi	15 MPa
Shear Strength	22,000 psi	151 MPa
Flammability Rating	94HB	—
Maximum Operating Temperature	356°F	180°C
Coefficient of Thermal Expansion °C (x 10 ⁻⁵)	1.10	—
Water Absorption - 24 hours	0.20	—
Izod Impact Strength @ 49°C -LW	12.00	—

ELECTRICAL DATA

IMPERIAL

METRIC

Dissipation Factor - 106 cycles Condition A	0.020	—
Dielectric Constant - 106 cycles Condition A	5.00	—
Electric Strength V/MIL Condition A	900	—
Dielectric Breakdown -A	—	—
Permittivity -A	—	—

Atlas Fibre LLC provides this data as information only and does not imply any warranty for its use or application. Test data for an individual batch or product must be requested specifically and agreed to in writing and is available for a fee.

PRODUCT DESCRIPTION

G-11 is a laminate sheet comprised of a halogen free epoxy resin and woven fiberglass substrate. It qualifies to NEMA G11 and MIL-I-24768/3.

With high mechanical strength and exceptional electrical insulation properties in dry or humid environments, this material is versatile for various electrical and mechanical applications due to its ease of fabrication.

AVAILABLE FORMS & STOCK SIZES

G-11 is stocked in sheet (0.010"–4.000" thick, up to 48" × 96"), rod (Ø 0.062"–6.000") and tube (Ø 0.250"–12.000" ID) in lengths to 48", and is supplied as precision blanks or CNC routed and Swiss-turned machined components.

CERTIFIED & TRACEABLE

Conforms to NEMA G-11 specifications. Batch test data ships with every order, verified annually by independent third-party lab assessment. No cut-to-size or sanding minimums.



TYPICAL APPLICATIONS

- › High-temperature slot wedges and spacers
- › Class H rotating machinery insulation
- › Transformer coil supports
- › Aerospace structural insulators
- › Downhole and high-heat tooling

REQUEST A QUOTE

Stock Material. Precision Parts.

G-11 is available from stock, cut to size or precision machined to your specifications. Request a quote or call 847-674-1234 to connect with an Atlas Fibre representative.

atlasfibre.com/
material/g-11

