

PHYSICAL DATA

IMPERIAL

METRIC

Specific Gravity	1.78	—
Tensile Strength	18,000 psi	124 MPa
Compressive Strength	45,000 psi	310 MPa
Flexural Strength	25,000 psi	172 MPa
Hardness - M Scale	105	—
Bond Strength	900 psi	6 MPa
Shear Strength	17,000 psi	117 MPa
Flammability Rating	94V-0	—
Maximum Operating Temperature	428°F	220°C
Coefficient of Thermal Expansion °C (x 10-5)	1.00	—
Water Absorption - 24 hours	0.20	—
Izod Impact Strength @ 49°C -LW	6.50	—

ELECTRICAL DATA

IMPERIAL

METRIC

Dissipation Factor - 106 cycles Condition A	0.003	—
Dielectric Constant - 106 cycles Condition A	4.20	—
Electric Strength V/MIL Condition A	400	—
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

A laminate sheet made from high-performance silicone resin and a woven fiberglass substrate, qualifying for NEMA G-7 and MIL-I-24768/17 standards.

This material features high heat resistance, low dissipation factor, excellent arc resistance, flame resistance, and low smoke evolution. It meets Class "H" insulation needs and is used in high-frequency telecom equipment, transformers, and high-heat items.

AVAILABLE FORMS & STOCK SIZES

G7 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 G7 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

- › Class H high-temperature insulation
- › High-frequency telecom components
- › Transformer and coil insulation
- › Welding and heat shields
- › Flame- and arc-resistant barriers

REQUEST A QUOTE

Stock Material. Precision Parts.

G7 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/
materials/g7

