

PHYSICAL DATA

	IMPERIAL	METRIC
Specific Gravity	1.8	-
Tensile Strength	40,000 psi	275 MPa
Compressive Strength	65,000 psi	448 MPa
Flexural Strength	75,000 psi	517 MPa
Hardness - M Scale	110	-
Bond Strength	2,200 psi	15 MPa
Shear Strength	19,000 psi	131 MPa
Flammability Rating	94HB	-
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C (x 10-5)	1.00	-
Water Absorption - 24 hours	0.11	-
Izod Impact Strength @ 49°C -LW	14.00	-

ELECTRICAL DATA

	IMPERIAL	METRIC
Dissipation Factor - 10 cycles Condition A	0.020	-
Dielectric Constant - 10 cycles Condition A	5.00	-
Electric Strength V/MIL Condition A	800	-
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-10 is a laminate sheet comprised of a halogen free epoxy resin and woven fiberglass substrate. It qualifies to NEMA G10 and MIL-I-24768/2.

TYPICAL APPLICATIONS

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.

Need Additional Information?

Contact Atlas Fibre Support for support for services and materials.



North America's Leading Thermoset Composite Supplier & Fabricator

Atlas Fibre is the leading supplier of thermoset composite laminate in North America. We produce and supply over 4,000,000 pounds of thermoset composites per year and stock over \$12,000,000 of composite material.

Why Choose Atlas Fibre?



Large Inventory Available

An abundant inventory means material is available when you need it, helping you meet customer demand promptly, minimizing delays and enhancing customer satisfaction.



Fully Traced & Tested Material

Atlas Fibre enhances reliability by supplying test data for every batch of material we ship, and confirm our test lab process through independent third-party assessments on an annual basis.



No Cut-to-Size or Sanding Minimums

Atlas Fibre can cut and sand any thermoset composite or thermoplastic product to size, ensuring ensures each item is tailored to the exact specifications required by customers.



Automated Precision Fabrication

Specializing in High-Mix and High-Volume manufacturing for demanding production requirements, Atlas Fibre excels at delivering versatile and scalable fabrication solutions.

MATERIALS

Glass Epoxy
G10, FR4, G11, FR5

Glass Polyester
GPO-1, GPO-3

Glass Silicone
G7

Phenolic
C, CE, L, LE, G3

Engineering Thermoplastics
PEI (Ultem), PPS, PEEK

Uni-directional Composite
Spring Materials
Atlas SpringLam

SERVICES

CNC Routing and Swiss
CNC Machining
Electrical and Thermal Insulation
Fabrication
Sanding
Batch and Sheet Testing
Thermoset Manufacturing

SHAPES

Sheets
Rods
Tubes
Precision Blanks
Prepreg
Composite Springs and Vibratory
Vacuum Pumps and Vanes

