

PHYSICAL DATA

	Value	Unit
Specific Gravity	1.81	-
Water Absorption -.25"	<0.6	%
Temperature Index	280 / 536	°C / °F
Rockwell Hardness	117	M scale
Bond Strength	>1,450 / 658	LBS / kgs

FLEXURAL STRENGTH

	Value	Unit
Lengthwise (LW) -Condition Ambient	>60,000 / 414	PSI / MPa
Crosswise (CW) -Condition Ambient	>60,000 / 414	PSI / MPa
LW & CW at 150C / 302F x 1 hour	>50,000 / 345	PSI / MPa
LW & CW at 220C / 428F x 1 hour	>35,000 / 241	PSI / MPa
LW & CW at 260C / 500F x 1 hour	>30,000 / 207	PSI / MPa
Izod Impact Strength – LW	>17 Ft.	lbs. / in.
Izod Impact Strength – CW	>14 Ft.	lbs. / in.
Compressive Strength -Flatwise	>60,000 / 414	PSI / MPa
Shear Strength -A -1.125"	>20,000 / 138	PSI / MPa

ELECTRICAL DATA

	Value	Unit
Dielectric Breakdown -Condition A	>65,000	Volts
Dielectric Strength -Step by Step -.125"	>450	VPM
Arc Resistance	>180	Seconds

* Atlas Fibre LLC provides this data as information only and does not imply any warranty for its use or application. Test results for a specific sheet or lot are available for a fee upon request.

PRODUCT DESCRIPTION

A heat-resistant laminate sheet made from epoxy resin and woven fiberglass, offering excellent thermal stability, mechanical strength, and electrical insulation.

TYPICAL APPLICATIONS

With superior heat resistance and strong electrical insulation, this material is ideal for high-temperature environments and precision mechanical or electrical applications.

Need Additional Information?

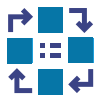
Contact Atlas Fibre Support for support for services and materials.



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