AtlasFibre

MATRIX HT

G-14

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
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

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

PRODUCT DESCRIPTION

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

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

AVAILABLE FORMS & STOCK SIZES

Matrix HT is stocked in sheet from 0.010" to 4.000" thick in sizes up to 48" × 96", and supplied as precision blanks cut to size and sanded to thickness, or as CNC routed and Swiss-turned machined components.

CERTIFIED & TRACEABLE

Conforms to NEMA Matrix HT 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 structural insulators
- Downhole and oil & gas tooling
- Aerospace and defense components
- Transformer and switchgear insulation
- Precision high-heat machined parts

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.