

Material Specifications Data Sheet

Physical Data

Specific Gravity	1.8	
Tensile Strength	65,000 psi	448 MPa
Compressive Strength	40,000 psi	275 MPa
Flexural Strength -LW -A 0.125"	75,000 psi	517 MPa
Flexural Strength -CW – A 0.125"		
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	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor – 10 ⁶ cycles Condition A	0.020	
Dielectric Constant – 10 ⁶ cycles Condition A	5.00	
Electric Strength V/MIL Condition A	800	
Dielectric Breakdown -A		
Permittivity -A		

Product Description

Laminate sheet comprised of a halogen free epoxy resin binder and a woven fiberglass substrate. It qualifies to NEMA G10 and MIL-I-24768/2.

Typical Applications

This material exhibits high mechanical strength and electrical insulating qualities under both dry and humid conditions. Its ease of fabrication allows its use in many structural and cryogenic applications where halogenated compounds may be undesirable.

Atlas Fibre stocks and machines a full range of non-metallic materials and has the largest inventory of thermoset laminate in North America. Learn more about our available materials and capabilities at atlasfibre.com.