

Material Specifications Data Sheet

Physical Data

Specific Gravity	1.85	
Tensile Strength	76,000 psi	524 MPa
Compressive Strength	42,000 psi	289 MPa
Flexural Strength -LW -A 0.125"	55,000 psi	379 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	110	
Bond Strength	1,500 psi	10 MPa
Shear Strength	18,000 psi	124 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	2.00	
Izod Impact Strength @ 49°C -LW	12.00	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor - 10 ⁶ cycles Condition A	0.023	
Dielectric Constant - 10 ⁶ cycles Condition A	7.30	
Electric Strength V/MIL Condition A	600	
Dielectric Breakdown -A		
Permittivity -A		

Product Description

Laminate sheet comprised of a phenolic resin binder and woven fiberglass substrate. It qualifies to NEMA G-3 and MIL-I-24768/18.

Typical Applications

This material has good heat resistance, high mechanical strength and low thermal expansion. It finds applications in motor slot insulation, valve plates, and other applications requiring good thermal insulation characteristics.

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.