

Material Specifications Data Sheet

Physical Data

Specific Gravity	1.35	
Tensile Strength	35,000 psi	241 MPa
Compressive Strength	17,000 psi	117 MPa
Flexural Strength -LW -A 0.125"	34,000 psi	234 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	120	
Bond Strength	1,500 psi	10 MPa
Shear Strength	11,500 psi	79 MPa
Flammability Rating	94HB	
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C (x 10 ⁻⁵)	1.20	
Water Absorption - 24 hours	2.00	
Izod Impact Strength @ 49°C -LW	0.80	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor - 10 ⁶ cycles Condition A	0.040	
Dielectric Constant - 10 ⁶ cycles Condition A	5.30	
Electric Strength V/MIL Condition A	750	
Dielectric Breakdown -A		
Permittivity -A		

Product Description

Laminate sheet comprised of a phenolic resin binder and a saturating kraft (paper) substrate. It qualifies to NEMA XX and MIL-I-24768/12.

Typical Applications

This is a general purpose grade with good mechanical and electrical insulating properties. Its versatility, good machining characteristics and lower cost encourage its applications as switch plates, barriers, terminal strips, washers and other electrical components.

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.