

Material Specifications Data Sheet

Physical Data

Specific Gravity	1.38	
Tensile Strength	35,000 psi	241 MPa
Compressive Strength	13,000 psi	89 MPa
Flexural Strength -LW -A 0.125"	22,000 psi	151 MPa
Flexural Strength -CW -A 0.125"		
Hardness – M Scale	101	
Bond Strength	1,200 psi	8 MPa
Shear Strength	12,800 psi	88 MPa
Flammability Rating	94HB	
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C (x 10 ⁻⁵)	1.50	
Water Absorption – 24 hours	0.57	
Izod Impact Strength @ 49°C -LW	0.55	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor – 10 ⁶ cycles Condition A	0.035	
Dielectric Constant – 10 ⁶ cycles Condition A	5.10	
Electric Strength V/MIL Condition A	700	
Dielectric Breakdown -A		
Permittivity -A		

Product Description

Laminate sheet comprised of a phenolic resin and a high alpha saturating paper substrate. It qualifies to NEMA XXX and MIL-I-24768/11

Typical Applications

This material has excellent machining characteristics, low moisture absorption and excellent dimensional stability. It is used in switchgear, relay spacers, power transformer insulating applications as well as numerous mechanical areas.

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.