

Material Specifications Data Sheet

Physical Data

Specific Gravity	1.37	
Tensile Strength	36,000 psi	248 MPa
Compressive Strength	10,000 psi	68 MPa
Flexural Strength -LW -A 0.125"	17,000 psi	117 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	100	
Bond Strength	1,900 psi	13 MPa
Shear Strength	14,000 psi	96 MPa
Flammability Rating	94HB	
Maximum Operating Temperature	257°F	125°C
Coefficient of Thermal Expansion °C (x 10 ⁻⁵)	2.00	
Water Absorption - 24 hours	2.00	
Izod Impact Strength @ 49°C -LW	1.70	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor - 10 ⁶ cycles Condition A	0.048	
Dielectric Constant - 10 ⁶ cycles Condition A	5.50	
Electric Strength V/MIL Condition A	550	
Dielectric Breakdown -A		
Permittivity -A		

Product Description

Canvas Phenolic (CE) is a laminate sheet comprised of a phenolic resin binder and woven canvas (cotton) substrate. It qualifies to NEMA C and MIL-I-24768/16

Typical Applications

This material is characterized by good mechanical properties and toughness. It has higher impact strength than NEMA XX grades. Its good machining qualities, moisture resistance and excellent wear resistance can be used in a wide variety of applications. Grade CE has properties more suited to electrical applications versus Grade C

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.