

## Material Specifications Data Sheet

### Physical Data

Specific Gravity	1.35	
Tensile Strength	37,000 psi	255 MPa
Compressive Strength	11,200 psi	77 MPa
Flexural Strength -LW -A 0.125"	22,000 psi	151 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	103	
Bond Strength	2,000 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 <sup>-5</sup> )	1.10	
Water Absorption - 24 hours	1.60	
Izod Impact Strength @ 49°C -LW	1.95	
Izod Impact Strength @ 49°C -CW		

### Electrical Data

Dissipation Factor - 10 <sup>6</sup> cycles Condition A	
Dielectric Constant - 10 <sup>6</sup> cycles Condition A	
Electric Strength V/MIL Condition A	
Dielectric Breakdown -A	
Permittivity -A	

### Product Description

Canvas Phenolic (C) is a laminate sheet comprised of a phenolic resin binder and woven canvas (cotton) substrate. It qualifies to NEMA C and MIL-I-24768/14

### 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 C has properties more suited to mechanical applications versus Grade CE

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](https://atlasfibre.com).