

## Material Specifications Data Sheet

### Physical Data

Specific Gravity	1.34	
Tensile Strength	36,000 psi	248 MPa
Compressive Strength	13,000 psi	89 MPa
Flexural Strength -LW -A 0.125"	18,000 psi	124 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	100	
Bond Strength	1,900 psi	13 MPa
Shear Strength	13,500 psi	93 MPa
Flammability Rating	94HB	
Maximum Operating Temperature	257°F	125°C
Coefficient of Thermal Expansion °C (x 10 <sup>-5</sup> )	1.80	
Water Absorption - 24 hours	1.90	
Izod Impact Strength @ 49°C -LW	1.35	
Izod Impact Strength @ 49°C -CW		

### Electrical Data

Dissipation Factor - 10 <sup>6</sup> cycles Condition A	0.065	
Dielectric Constant - 10 <sup>6</sup> cycles Condition A	5.70	
Electric Strength V/MIL Condition A	625	
Dielectric Breakdown -A		
Permittivity -A		

### Product Description

Laminate sheet comprised of a phenolic resin and a woven linen (cotton) substrate. This material qualifies to NEMA L and MIL-I-24768/15

### Typical Applications

This materials good moisture resistance and machining characteristics allow its use in a wider range of electrical and structural applications than XX Grades. Its finer weave fabric also allows thinner thickness to be produced than CE Grade. Grade LE has properties more suited to electrical applications versus Grade L

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).