

## Material Specifications Data Sheet

### Physical Data

Specific Gravity	1.85	
Tensile Strength	66,000 psi	455 MPa
Compressive Strength	38,000 psi	262 MPa
Flexural Strength -LW -A 0.125"	60,000 psi	413 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	115	
Bond Strength	2,300 psi	15 MPa
Shear Strength	21,500 psi	148 MPa
Flammability Rating	94V-0	
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C (x 10 <sup>-5</sup> )	1.00	
Water Absorption - 24 hours	0.10	
Izod Impact Strength @ 49°C -LW	14.00	
Izod Impact Strength @ 49°C -CW		

### Electrical Data

Dissipation Factor - 10 <sup>6</sup> cycles Condition A	0.022	
Dielectric Constant - 10 <sup>6</sup> cycles Condition A	4.80	
Electric Strength V/MIL Condition A	800	
Dielectric Breakdown -A		
Permittivity -A		

### Product Description

Laminate sheet comprised of a flame retardant epoxy resin and a woven fiberglass substrate. This grade qualifies to NEMA FR4 and MIL-I-24768/27.

### Typical Applications

This material has high mechanical strength and excellent electrical insulating qualities in both dry and humid conditions. These attributes along with good fabricating characteristics allow this grade to be used in a wide variety of electrical and mechanical applications.

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).