

Material Specifications Data Sheet

Physical Data

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|---|------------|---------|
| Specific Gravity | 1.82 | |
| Tensile Strength | 63,000 psi | 434 MPa |
| Compressive Strength | 37,000 psi | 255 MPa |
| Flexural Strength -LW -A 0.125" | 75,000 psi | 517 MPa |
| Flexural Strength -CW - A 0.125" | | |
| Hardness - M Scale | 112 | |
| Bond Strength | 2,200 psi | 15 MPa |
| Shear Strength | 22,000 psi | 151 MPa |
| Flammability Rating | 94HB | |
| Maximum Operating Temperature | 356°F | 180°C |
| Coefficient of Thermal Expansion °C (x 10 ⁻⁵) | 1.10 | |
| Water Absorption - 24 hours | 0.20 | |
| Izod Impact Strength @ 49°C -LW | 12.00 | |
| Izod Impact Strength @ 49°C -CW | | |

Electrical Data

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|--|-------|--|
| Dissipation Factor - 10 ⁶ cycles Condition A | 0.020 | |
| Dielectric Constant - 10 ⁶ cycles Condition A | 5.00 | |
| Electric Strength V/MIL Condition A | 900 | |
| Dielectric Breakdown -A | | |
| Permittivity -A | | |

Product Description

Laminate sheet comprised of heat resistant/halogen free epoxy resin and a woven fiberglass substrate. It qualifies to NEMA G11 and MIL-I-24768/3.

Typical Applications

This material exhibits extremely high mechanical strength at elevated temperatures and has good dielectric loss and electric strength properties under both dry and humid conditions. It is resistant to flow, dimensional change, chemicals and has low moisture absorption.

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.