

Material Specifications Data Sheet

Physical Data

Specific Gravity	1.78	
Tensile Strength	45,000 psi	310 MPa
Compressive Strength	18,000 psi	124 MPa
Flexural Strength -LW -A 0.125"	25,000 psi	172 MPa
Flexural Strength -CW - A 0.125"		
Hardness - M Scale	105	
Bond Strength	900 psi	6 MPa
Shear Strength	17,000 psi	117 MPa
Flammability Rating	94V-0	
Maximum Operating Temperature	428°F	220°C
Coefficient of Thermal Expansion °C (x 10 ⁻⁵)	1.00	
Water Absorption - 24 hours	0.20	
Izod Impact Strength @ 49°C -LW	6.50	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor - 10 ⁶ cycles Condition A	0.003	
Dielectric Constant - 10 ⁶ cycles Condition A	4.20	
Electric Strength V/MIL Condition A	400	
Dielectric Breakdown -A		
Permittivity -A		

Product Description

Laminate sheet comprised of a high performance silicone resin and a woven fiberglass substrate. It qualifies to NEMA G-7 and MIL-I-24768/17.

Typical Applications

This material has high heat resistance, low dissipation factor, and excellent arc resistance. It is flame resistant with low smoke evolution, and meets the needs of Class "H" insulation. It is used in high frequency telecom equipment, transformers and items subjected to high heat

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.