Glass Melamine G9

MIL-I-24768/1 - GME

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Material Specifications Data Sheet

Physical Data

Specific Gravity	1.85	
Tensile Strength	70,000 psi	482 MPa
Compressive Strength	39,000 psi	268 MPa
Flexural Strength -LW -A 0.125"	55,000 psi	379 MPa
Flexural Strength -CW – A 0.125"		
Hardness – M Scale	115	
Bond Strength	1,900 psi	13 MPa
Shear Strength	18,000 psi	124 MPa
Flammability Rating	94V-0	
Maximum Operating Temperature	284°F	140°C
Coefficient of Thermal Expansion °C ($x\ 10^{-5}$)	1.50	
Water Absorption - 24 hours	0.60	
Izod Impact Strength @ 49°C -LW	12.50	
Izod Impact Strength @ 49°C -CW		

Electrical Data

Dissipation Factor – 10^6 cycles Condition A	0.015
Dielectric Constant – 10^6 cycles Condition A	7.00
Electric Strength V/MIL Condition A	450
Dielectric Breakdown -A	
Permittivity -A	

Product Description

Laminate sheet comprised of flame retardant melamine resin and a woven fiberglass glass substrate. It qualifies to NEMA G9 and MIL-I-24768/1

Typical Applications

This material has high strength and excellent arc resistance and electrical insulating properties which allows it to be used as mechanical support in electrical equipment, switchgear, and slot wedges where Class "B" insulation is required.

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 avalaible materials and capabilities at atlasfibre.com.