

## NEMA G9 - Industrial Laminate

**Composition:**

An electrical/mechanical grade of glass cloth laminate impregnated and cured with melamine resin.

**Sheet Sizes:**

Sheet sizes of 36"x48", 36"x72", 48"x48", 48"x96" and 48"x108" in thicknesses: .031" to 4"  
Cut and fabricated to shape.

**Color:**

Gray

**Advantages:**

NEMA G9 is similar to G5, but it can be used in high humidity applications. It has high mechanical strength and excellent electrical properties including high arc and heat resistance. It is also self extinguishing. It is used in the electrical industry in switch board panels, arc barriers, circuit breakers and as structural electrical parts both under regular and high humidity situations.

**Specifications:**

Density	124 lbs/ft <sup>3</sup> – 0.72 lbs/in <sup>3</sup>
Maximum operating temperature	
electrical	Not recommended at elevated temperatures
mechanical	284°F (140°C)
Water absorption	0.2%
Hardness (Rockwell M)	120
Compression strength	65,000 psi
Tensile strength	55,000 psi
Flexural strength	75,000 psi
Impact strength – Izod edgewise with grain	13.0 ft-lb/in
Dielectric strength	450 volts/mil
Dielectric constant (@10 <sup>6</sup> cycles per second)	7.2
Volume resistivity	1.5 x 10 <sup>7</sup> megohm-cm
Arc resistance	180 sec
Surface resistivity	1.5 x 10 <sup>7</sup> megohms
Parallel dielectric	70kv