

NEMA G11 - Industrial Laminate

Composition:

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

Sheet Sizes:

Sheet sizes of 36"x48", 36"x72", 48"x48", 48"x96" and 48"x108" in thicknesses: .031" to 3". Cut and fabricated to shape.

Color:

Natural

Advantages:

NEMA G11 can be used in higher temperature applications than NEMA G10. It retains high mechanical strength at temperatures up to 150°C, and retains 50% of its flexural strength at elevated temperatures. It is used in the electrical industry and anywhere a high strength electrical insulator is needed in high temperature applications.

Specifications:

Density	119 lbs/ft ³ – 0.69 lbs/in ³
Maximum operating temperature	
electrical	338°F (170°C)
mechanical	256°F (180°C)
Water absorption	0.085%
Hardness (Rockwell M)	110
Compression strength	50,000 psi
Tensile strength	41,000 psi
Flexural strength	57,000 psi
Impact strength – Izod edgewise with grain	10.0 ft-lb/in
Dielectric strength	550 volts/mil
Dielectric constant (@ 10 ⁶ cycles per second)	4.5
Volume resistivity	5 x 10 ⁶ megohm-cm
Arc resistance	185 sec
Surface resistivity	1.5 x 10 ⁶ megohms
Parallel dielectric	65kv