

NEMA G5 - 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 G5 has high mechanical strength and excellent electrical properties under dry conditions. It has high arc and heat resistance and is self extinguishing. It is used in the electrical industry in switch board panels, arc barriers, circuit breakers and as structural electrical parts.

Specifications:

Density	124 lbs/ft ³ – 0.72 lbs/in ³
Maximum operating temperature	
electrical	Not recommended at elevated temperatures
mechanical	310°F (140°C)
Water absorption	0.4%
Hardness (Rockwell M)	115
Compression strength	65,000 psi
Tensile strength	40,000 psi
Flexural strength	50,000 psi
Impact strength – Izod edgewise with grain	10.0 ft-lb/in
Dielectric strength	300 volts/mil
Dielectric constant (@ 10 ⁶ cycles per second)	6.3
Volume resistivity	6 x 10 ⁷ megohm-cm
Arc resistance	180 sec
Surface resistivity	6 x 10 ⁶ megohms
Parallel dielectric	50kv