

NEMA G3 - Industrial Laminate

Composition:

A mechanical grade of glass cloth laminate impregnated and cured with phenolic resin.

Sheet Sizes:

Sheet sizes of 36"x48", 48"x48", 48"x96" and 48"x108" in thicknesses: .031" to 5"
Cut and fabricated to shape.

Color:

Natural

Advantages:

NEMA G3 has high mechanical strength with excellent electrical properties and has a low water absorption rate. It has high heat resistance and high impact resistance. It is used in structural applications such as seals and gaskets.

Specifications:

Density	121 lbs/ft ³ – 0.70 lbs/in ³
Maximum operating temperature	
electrical	284°F (140°C)
mechanical	338°F (170°C)
Water absorption	0.8%
Hardness (Rockwell M)	n/a
Compression strength	55,000 psi
Tensile strength	34,000 psi
Flexural strength	42,000 psi
Impact strength – Izod edgewise with grain	11.0 ft-lb/in
Dielectric strength	400 volts/mil
Dielectric constant (@ 10 ⁶ cycles per second)	7.3
Volume resistivity	1.3 x 10 ⁴ megohm-cm
Arc resistance	n/a
Surface resistivity	4.6 x 10 ⁴ megohms
Parallel dielectric	50kv