



## NEMA G7 - Industrial Laminate

**Composition:**

An electrical grade of glass cloth laminate impregnated and cured with silicone resin.

**Sheet Sizes:**

Sheet sizes of 36"x48", 36"x72", 48"x48", 48"x96" and 48"x108" in thicknesses: .031" to 2"

**Color:**

White

**Advantages:**

NEMA G7 can be used in high temperature applications under humid conditions. It has excellent heat resistance and arc resistance, it is self extinguishing and is rated as class H insulation. It is used in heating, appliance and electrical industries, and anywhere a high strength electrical insulator is needed in high temperature applications.

**Specifications:**

Density	118 lbs/ft <sup>3</sup> – 0.68 lbs/in <sup>3</sup>
Maximum operating temperature	
electrical	338°F (170°C)
mechanical	428°F (220°C)
Water absorption	0.03%
Hardness (Rockwell M)	100
Compression strength	40,000
Tensile strength	psi 20,500
Flexural strength	psi 25,000
Impact strength – Izod edgewise with grain	11.0 ft-lb/in
Dielectric strength	400 volts/mil
Dielectric constant (@10 <sup>6</sup> cycles per second)	3.9
Volume resistivity	n/a
Arc resistance	220 sec
Surface resistivity	n/a
Parallel dielectric	50kv

