

NEMA C - Industrial Laminate

Composition:

A mechanical grade of medium weave cotton cloth laminate impregnated and cured with phenolic resin.

Sheet Sizes:

Sheet sizes of 36"x72", 36"x48", 48"x48", 48"x96" and 48"x108" in thicknesses: .031" to 10"
Cut and fabricated to shape.

Color:

Natural & black

Advantages:

NEMA C is an economy grade mechanical laminate that possesses high impact strength. It is used for gears, pinions, bearings, bushings and many other structural applications.

Specifications:

Density	92 lbs/ft ³ – 0.53 lbs/in ³
Maximum operating temperature	
electrical	239°F (115°C)
mechanical	257°F (125°C)
Water absorption	2.2%
Hardness (Rockwell M)	100
Compression strength	39,000 psi
Tensile strength	13,000 psi
Flexural strength	20,000 psi
Shear (flatwise)	13,000 psi
Impact strength – Izod edgewise with grain	2.3 ft-lb/in
Dielectric strength	200 volts/mil
Dielectric constant (@ 10 ⁶ cycles per second)	n/a
Volume resistivity	n/a
Arc resistance	n/a
Parallel dielectric	21kv