

## NEMA XXX - Industrial Laminate

**Composition:**

An electrical grade of paper 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 2"  
Cut and fabricated to shape.

**Color:**

Natural

**Advantages:**

NEMA XXX is a good electrical insulator with good mechanical strength and high humidity resistance. It has good dimensional stability and excellent resistance to splitting. It can be used for panel boards, high voltage switchgear and other electronic panels.

**Specifications:**

Density	81 lbs/ft <sup>3</sup> – 0.47 lbs/in <sup>3</sup>
Maximum operating temperature	
electrical	284°F (140°C)
mechanical	284°F (140°C)
Water absorption	0.5%
Hardness (Rockwell M)	110
Compression strength	38,000 psi
Tensile strength	20,000 psi
Flexural strength	23,000 psi
Shear (flatwise)	12,000 psi
Impact strength – Izod edgewise with grain	0.8 ft-lb/in
Dielectric strength	475 volts/mil
Dielectric constant (@ 10 <sup>6</sup> cycles per second)	4.9
Volume resistivity	3 x 10 <sup>7</sup>
Arc resistance	124 sec
Parallel dielectric	65kv