

PHENOLIC GRADE XX

Kraft-Paper Reinforced Phenolic Laminate (NEMA XX)

Affordable phenolic insulation that machines like a dream.

Kraft-paper reinforced phenolic laminate combines layered cellulose paper with a phenolic resin binder, producing an economical, easily machined insulator with strong dielectric performance. It is the traditional choice for terminal boards, panel boards, and general-purpose electrical insulation where cost and machinability matter.

GENERAL	
Flammability rating	94HB
Specific gravity	1.35
Water absorption 24 hours	2.00
MECHANICAL	
M-scale hardness	120
Bond strength	1,500 psi 10 MPa
Compressive strength	17,000 psi 115 MPa
Flexural strength LW -A 0.125"	34,000 psi 230 MPa
Izod impact strength at 49°C LW	0.80
Shear strength	11,500 psi 79 MPa
Tensile strength	35,000 psi 240 MPa

NEMA LI 1 – X, XX, XXX, XXXP GRADES

MIL-I-24768/9-12

ROHS / REACH

APPLICATIONS

- Tabletops
- Breaker arms
- Washers
- Electrical insulation
- Switch plates
- Sleeves

STANDARD COLORS

Natural / Black Opaque

OPERATING ENVIRONMENT

Maximum temperature **140 °C**
280 °F