

PHENOLIC GRADE XXX

Kraft-Paper Reinforced Phenolic, Electrical Grade (NEMA XXX)

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.

NEMA LI 1 – X, XX, XXX, XXXP GRADES

MIL-I-24768/9-12

ROHS / REACH

APPLICATIONS

- Switchgear
- Power transformer insulation
- Terminal boards
- Washers
- Sleeves
- Relay and switch bases

STANDARD COLORS

Natural / Black Opaque

GENERAL

Specific gravity	1.38
Water absorption 24 hours	0.57
Flammability rating	94HB

MECHANICAL

Hardness on M scale	101
Tensile strength	35,000 psi 240 MPa
Compressive strength	13,000 psi 89 MPa
Flexural strength LW -A 0.125"	22,000 psi 150 MPa
Bond strength	1,200 psi 8.2 MPa
Shear strength	12,800 psi 88 MPa
Izod impact strength at 49°C LW	0.55

OPERATING ENVIRONMENT

Maximum temperature	140 °C 280 °F
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