

# PHENOLIC GRADE CE

## Coarse Cotton-Fabric Reinforced Phenolic, Electrical Grade (NEMA CE)

Cotton-phenolic toughness, machined sharp.

Cotton-fabric reinforced phenolic laminate combines woven cotton cloth with a high-bond-strength phenolic resin. The result is a tough, machinable composite with excellent impact strength, low noise in gear and bearing service, and outstanding fatigue resistance under cyclic loading. A go-to material for industrial gears, bushings, rollers, and structural fixtures.

<b>GENERAL</b>	
Flammability rating	<b>94HB</b>
Specific gravity	<b>1.37</b>
Water absorption 24 hours	<b>2.00</b>

<b>MECHANICAL</b>	
Bond strength	<b>1,900 psi</b> 13 MPa
Compressive strength	<b>10,000 psi</b> 68 MPa
Flexural strength LW -A 0.125"	<b>17,000 psi</b> 115 MPa
Izod impact strength at 49°C LW	<b>1.70</b>
Rockwell M-scale hardness	<b>100</b>
Shear strength	<b>14,000 psi</b> 96 MPa
Tensile strength	<b>36,000 psi</b> 245 MPa

NEMA LI 1 – C, CE, L, LE GRADES

MIL-I-24768/13-17

ROHS / REACH

### APPLICATIONS

- Insulators
- Gears
- Transformers
- Pulleys
- Jigs
- Guides

### STANDARD COLORS

Natural / Black Opaque

### OPERATING ENVIRONMENT

Maximum operating temperature	<b>125 °C</b> 255 °F
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