

PHENOLIC GRADE G3

Glass-Cloth Reinforced Phenolic Laminate (NEMA G-3)

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.

GENERAL	
Specific gravity	1.85
Flammability rating	94 HB (Horizontal burning test)
Water absorption over 24 hours	2.0

MECHANICAL	
Tensile strength	76,000 psi 520 MPa
Flexural strength LW -A 0.125"	55,000 psi 375 MPa
Shear strength	18,000 psi 120 MPa
Bond strength	1,500 psi 10 MPa
Hardness Mohs Scale	110
Izod impact strength 49 degrees Celsius -LW	12.00

- NEMA LI 1 – C, CE, L, LE GRADES
- MIL-I-24768/13-17
- ROHS / REACH

APPLICATIONS

- Gaskets and grommets
- Seals
- Oven parts
- Relays
- Switches
- Test boards

STANDARD COLORS

Natural / Black Opaque

OPERATING ENVIRONMENT	
Maximum operating temperature	140 °C 280 °F