

# GLASS MELAMINE G-5

## Glass-Fiber Reinforced Melamine Laminate (NEMA G-5)

Arc-resistant glass-melamine. Built for fault-current service.

Glass-fiber reinforced melamine laminate pairs woven E-glass cloth with a melamine resin binder, producing a hard, arc-resistant composite with excellent flame retardance and high mechanical strength. It is the standard substrate for arc-quench hardware, switchgear arc shields, and structural insulators in high-fault-current service.

GENERAL	
Specific gravity	1.90
Flammability rating	94V-0
Water absorption over 24 hours	0.60

MECHANICAL	
Tensile strength	70,000 psi 480 MPa
Flexural strength	55,000 psi 375 MPa
Shear strength	18,000 psi 120 MPa
Bond strength	1,900 psi 13 MPa
Hardness Mohs Scale	115
Izod impact strength 49 degrees Celsius	12.5 foot-pounds per inch

- NEMA LI 1 – G-5 / G-9 GRADES
- MIL-I-24768/8 (G-5)
- UL 94V-0
- ROHS / REACH

### APPLICATIONS

- Circuit breaker components
- Arc barriers
- Terminal boards
- Switchboard panels
- Switch mounts
- Motor wedges

### STANDARD COLORS

Natural / Black Opaque

OPERATING ENVIRONMENT	
Maximum operating temperature	140 °C 280 °F