

FR-5

Glass Epoxy

MIL-I-24768/28 / Type GEB



Physical Data

Specific Gravity	1.85
Tensile Strength	40,000 psi
Compressive Strength	65,000 psi
Flexural Strength	75,000 psi
Hardness - M Scale	112
Bond Strength	2,200 psi
Shear Strength	22,000 psi
Flammability Rating	94HB
Maximum Operating Temperature	356°F
Thermal Expansion Coefficient °C (x 10 ⁻⁵)	1.10
Water Absorption (24 Hours)	0.10
Izod Impact Strength (at 49°C -LW)	10.00

Product Info

FR-5 is a flame-retardant epoxy resin and woven fiberglass substrate laminate sheet. It qualifies for NEMA FR5 and MIL-I-24768/28 requirements.

Available in rods, tubes, and sheets in various dimensions, lengths, diameters and thicknesses.

Capabilities

- High mechanical strength
- Electrical insulation in dry and humid environments
- Versatile in electrical and mechanical applications
- Ease of fabrication

Electrical Data

Dissipation Factor - 106 cycles Condition A	0.022
Dielectric Constant - 106 cycles Condition A	5.00
Electric Strength V/MIL Condition A	900
Dielectric Breakdown A	—
Permittivity - A	—

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