

# FR-4

## Glass Epoxy

MIL-I-24768/27 / Type GEE-F



## Physical Data

Specific Gravity	1.85
Tensile Strength	38,000 psi
Compressive Strength	66,000 psi
Flexural Strength	60,000 psi
Hardness - M Scale	115
Bond Strength	2,300 psi
Shear Strength	21,500 psi
Flammability Rating	94V-0
Maximum Operating Temperature	284°F
Thermal Expansion Coefficient °C (x 10 <sup>-5</sup> )	1.00
Water Absorption (24 Hours)	0.10
Izod Impact Strength (at 49°C -LW)	14.00

## Product Info

FR-4 is a flame-retardant epoxy resin and woven fiberglass substrate laminate sheet. It qualifies for NEMA FR4 and MIL-I-24768/27 requirements.

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

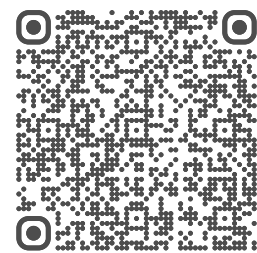
## Capabilities

- 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	4.80
Electric Strength V/MIL Condition A	800
Dielectric Breakdown A	—
Permittivity - A	—

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