

Material	Characteristics
Acetal	Color: Transparent white Electrical properties: 400-465 v/mil (Good) Mechanical properties: High. High rigidity. Resistant to damage from fatigue, moisture, solvents and gasoline. Not resistant to hot water, steam and strong alkalis. Highly resistant to cold flow.
Fiber	Color: Grey and black Electrical properties: 150-250 v/mil Mechanical properties: Fair. Can be formed Not magnetic Resistant to corrosion Thermal conductivity: .25 BTU/hr/ft ² /°F/ft Highly resistant to cold flow.
Fiberglass (G-7 Silicone Resin)	G-7 provides the best heat resistance of any fiberglass
Fiberglass (G-9 Heat Resistant Melamine resin)	Good heat resistance Can be used in mechanical applications Almost no electrical conductivity, good insulator when wet Stable Thermal conductivity: 0.29BTY/hr/ft ² /F/ft
Fiberglass (G-10 Epoxy Resin)	Stable Good tensile strength (at room temperature) Effective electrical insulation
Fiberglass (G-11 Heat Resistant Epoxy Resin)	Stable Good tensile strength (at room temperature) Tests show strength retention drops to 50% after one hour of treatment at 150 centigrade. Effective electrical insulation
Kapton (Polyimide Plastic Film)	Excellent electrical conductivity Relatively good strength Can withstand temperatures up to 750 Fahrenheit