



DATA SHEET: GER3000 RESIN and GEH4003 HARDENER

Description: GER3002 Resin and GEH4003 Hardener is a two component unfilled epoxy with medium viscosity and good flow qualities. The hardener has a proprietary rubber additive, which helps aid in flexible characteristics such as thermal shock resistance and flexibility. It has excellent adhesion to metals, plastics and ceramics. It has great-encapsulated properties for potting of electrical components, excellent mechanical properties, great adhesion, good chemical and environmental resistance, and low shrinkage. Hardens to a tough, non-brittle system with great impact resistance.

Uses: Potting electrical components, encapsulating, power supplies, etc.

Glenmarc epoxies have been the industry standard for potting of electrical components for over 20 years. They have been used in a multitude of electrical potting assemblies such as automotive, aerospace, military, and industrial components.

Mixing and Cure Instructions:

Ratio by weight: Resin 100 Hardener 80

Ratio by volume: Resin 1 Hardener 1

Pot life (100 gram mass at 72°F) = 120 minutes

Physical Properties (@ 72°F/ 22°C):

Color	Available in Black or Clear
Shore "D" hardness ASTM D2240	75
Viscosity Resin	16,000 cps
Viscosity Hardener	7,500 cps
Viscosity Mixed	9,500 cps
Density Resin	9.78 wpg
Density Hardener	8.13 wpg
Density mixed	8.96 wpg
Specific gravity, Resin	1.17
Specific gravity, Hardener	0.98
Tensile strength	3000 psi
T-Peel strength	29 pli
Coefficient of Thermal Expansion	40x10(-8) mm/mm°C
Maximum use temperature	250°F (121°C)
Deflection temperature	165°F (74°C)
Shelf Life	1 Year

Electric Properties:

Volume Resistivity, applied voltage:500VDC@1 min. Ele per ASTM D257	3.2X10(15) ohms-cm
Dielectric Constant, test frequency 1Mhz per ASTM D150	5.51
Dielectric Strength oil rate of rise (short time); 500 v/s per ASTM D149	630 v/mil
Dissipation Factor test frequency: 1MHZ per ASTM D150	0.034
Thermal conductivity BTU-in/hr ft sq-F° per ASTM C177	1.37

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