



**DATA SHEET: GER3000 RESIN and GEH4002 HARDENER**

**Description:** GER3000 Resin and GEH4002 Hardener is a two component unfilled epoxy with fast curing time. Mixed material will start curing in 7-10 minutes and can be handled in 15 minutes. It has superior bonding characteristics, high chemical resistance, medium viscosity and good flow qualities.

**Uses:** Potting, encapsulating and adhesive uses, use for items that require a relatively fast cure time, but need more economical material than true 5 minute epoxy.

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 100  
Ratio by volume: Resin 100 Hardener 83  
Pot life (100 gram mass at 72°F) = 7-10 minutes

**Physical Properties (@ 72°F/ 22°C):**

Color	Available in Black or Clear
Shore "D" hardness ASTM D2240	80
Viscosity Resin	16,000 cps
Viscosity Hardener	9.720 cps
Viscosity Mixed	10,000 cps
Density Resin	9.78 wpg
Density Hardener	8.08 wpg
Density mixed	8.93 wpg
Specific gravity, Resin	1.17
Specific gravity, Hardener	1.032
Specific gravity mixed	0.97
Tensile strength	4000 psi
Compressive strength	22,000 psi
Coefficient of Thermal Expansion	40x10 <sup>-8</sup> mm/mm°C
Deflection temperature	200°F (93.3°C)
Maximum use temperature	250°F (121°C)
Shelf Life	1 Year

**Electric Properties:**

Volume Resistivity, applied voltage:500VDC@1 min. Ele per ASTM D257	6.3X10 <sup>(15)</sup> ohms-cm
Dielectric Constant, test frequency 1Mhz per ASTM D150	5.41
Dielectric Strength oil rate of rise (short time); 500 v/s per ASTM D149	450 v/mil
Dissipation Factor test frequency: 1MHZ per ASTM D150	0.030
Thermal conductivity BTU-in/hr ft sq-F° per ASTM C177	1.70

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