



**DATA SHEET: GER3001 RESIN and GEH4006 HARDENER EPOXY**

**Description:** GER3001 Resin and GEH4006 Hardener is a two component unfilled epoxy with medium viscosity and good flow qualities. It has excellent adhesive properties and can bond with very difficult substrates such as Teflon, Nylon, rubber, and smooth stainless steel.

**Uses:** Adhesive for difficult to bond substrates.

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 1.00 Hardener 1.17  
Pot life (100 gram mass at 72°F) = 180 minutes

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

Color	Available in Black or Clear
Shore "D" hardness ASTM D2240	65
Viscosity Resin	7,440 cps
Viscosity Hardener	8,440 cps
Viscosity Mixed	13,000 cps
Density Resin	9.65 wpg
Density Hardener	8.26 wpg
Density mixed	8.96 wpg
Specific gravity, Resin	1.16
Specific gravity, Hardener	0.99
Specific gravity mixed	1.38
Tensile strength	1200 psi
Compressive strength	7,500 psi
Cure shrinkage	0.002 inches ( 0.0508mm)
Coefficient of Thermal Expansion	11x10(-5) in/in/°F
Temperature use range	-50°F (130°C) to 250°F (121°C)
Shelf Life	1-1/2 Years

**Electric Properties:**

Volume Resistivity, applied voltage:500VDC@1 min. Ele per ASTM D257	1.5X10(15) ohms-cm
Dielectric Constant, test frequency 1Mhz per ASTM D150	3.75
Dielectric Strength oil rate of rise (short time); 500 v/s per ASTM D149	490 v/mil
Dissipation Factor test frequency: 1MHZ per ASTM D150	0.034
Thermal conductivity BTU-in/hr ft sq-F° per ASTM C177	1.70

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