



DATA SHEET: GER3000 RESIN and GEH4000 HARDENER

Description: GER3000 Resin and GEH4000 Hardener is a two component unfilled epoxy. It has superior bonding characteristics, high chemical resistance, medium viscosity and good flow qualities. It is a great all around epoxy adhesive, good for a multitude of uses and good economical cost per pound. This epoxy material is one of the most widely used products we sell.

Uses: Potting, encapsulating, and adhesive uses. Meets MIL-A-81236 specs. Meets requirements of FDA for food contact application under 21 CFR 175.300.

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) = 140 minutes

Physical Properties (@ 72°F/ 22°C):

Color	Available in Black or Clear
Shore "D" hardness ASTM D2240	85
Viscosity Resin	16,000 cps
Viscosity Hardener	10,000 cps
Viscosity Mixed	11,000 cps
Density Resin	9.78 wpg
Density Hardener	8.00 wpg
Density mixed	9.08 wpg
Specific gravity, Resin	1.17
Specific gravity, Hardener	0.97
Specific gravity mixed	1.12
Tensile strength	8000 psi
Compressive strength	15,000 psi
Lap Shear	5,100 psi
Coefficient of Thermal Expansion	40x10(-8) 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	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	1.65

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