



DATA SHEET: GER3000 RESIN and GEH4001 HARDENER

Description: GER3000 Resin and GEH4001 Hardener is a two component unfilled epoxy with a very fast curing time. Mixed material will start curing in 3 to 5 minutes and cures to a full bond strength in one hour. It has superior bonding characteristics, high chemical resistance and can be immersed in water for extended periods of time. It is an excellent choice for all purpose repair because it bonds to a wide range of materials, including wood, ceramics, metals, fiberglass, glass, china, paper, etc.

Uses: Potting and adhesive uses, also repair of items that requires a very fast true 5 minute cure time.

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 1 Hardener 1
Ratio by volume: Resin 1 Hardener 1
Pot life (100 gram mass at 72°F) = 3-5 minutes

Physical Properties (@ 72°F/ 22°C):

Color	Available in Black or Clear
Shore "D" hardness ASTM D2240	82
Viscosity Resin	16,000 cps
Viscosity Hardener	10,300 cps
Viscosity Mixed	13,000 cps
Density Resin	9.78 wpg
Density Hardener	8.60 wpg
Density mixed	9.19 wpg
Specific gravity, Resin	1.17
Specific gravity, Hardener	1.032
Specific gravity mixed	1.10
Tensile strength	3500 psi
Coefficient of Thermal Expansion	40x10(-8) mm/mm°C
Typical use temperature	-40°F (-40°C) to 225°F (107°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(15) 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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