



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):

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| 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:

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| 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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