



G6-EPOXY™

HIGH-TEMPERATURE FLEXIBLE SILVER/GRAPHENE CONDUCTIVE EPOXY

G6E-HFSG™

DESCRIPTION: G6E-HFSG™ epoxy is intended for applications requiring a high-performance bond or connection of electrically conductive components/materials which operate at higher temperatures and require low electrical resistivity. G6E-HFSG™ is a two-component adhesive that is both flexible and has excellent electrical conductivity. This makes it well suited for bonding dissimilar materials that are likely to be subjected to vibrations, temperature

vibrations, temperature variations, shock from impact, bending, and mechanical stress. We use a proprietary mix of silver and graphene materials to formulate an adhesive with an outstanding combination of flexibility and low electrical resistivity. Graphene fillers add superior durability, fatigue, and crack resistance. **OPERATING TEMPERATURE: up to 260 °C (500F)**

FEATURES:

- High Operating Temperature
- Flexible, rubbery texture after curing
- Excellent Electrical Conductivity
- Graphene Loaded (Improves Crack Resistance)
- Non-Magnetic
- Tough and Durable

TYPICAL APPLICATIONS:

- Electronics operated or exposed to High Temperature
- Wearable Electronics
- Medical Sensors
- Fiber-Optics Packaging
- Flexible Electronics, Wiring & Harnesses

SPECIFICATIONS OF UNCURED MATERIAL:

TWO COMPONENT SYSTEM:

- Part A – silver paste
- Part B – silver paste

MIX RATIO:

2 (Part A) to 1 (Part B) by weight

POT LIFE:

4-6 hours

CURING SCHEDULE:

2-3 hours @ 150°C / 302°F

DENSITY:

- Part A 2.7 - 2.9 g/cm³
- Part B 3.6 - 3.8 g/cm³

MIXED VISCOSITY:

270 - 300 Pa·s @ 25°C / 77°F



SPECIFICATIONS OF CURED MATERIAL:

HARDNESS, SHORE:	<90A
GLASS TRANSITION TEMPERATURE (T _g):	10 °C
FLEXURAL MODULUS:	150-300 MPa at 25°C
LOSS MODULUS:	50-100 MPa at 25°C
VOLUME RESISTIVITY:	< 3x10 ⁻⁴ Ω·cm at 150°C curing temperature

GENERAL INFORMATION:

MIXING INSTRUCTIONS:	Stir both components before use. Add Part B to Part A and mix slowly until uniform in a separate container.
STORAGE & SHELF LIFE:	6 months @ 25°C / 77°F in unopened, unmixed containers. Stores and ships at room temperature. No freezing is required.
SHIPPING & HANDLING:	Always read both SDS before use. Use product with adequate ventilation. Keep away from sparks and open flames. Avoid prolonged contact with skin and breathing of vapors. Wash with soap and water to remove from skin.

ABOUT G6-EPOXY™:	All G6-EPOXY™ specifications are for normal use and routine applications. Please consult with our team to ensure the most appropriate selection of G6-EPOXY™ products. Depending upon your application requirements, a custom G6-EPOXY™ formulation may be available.
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G6-EPOXY™ is a trademark owned by Graphene Laboratories, Inc.

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