

**G6-EPOXY™****ROOM TEMPERATURE SILVER-GRAPHENE  
ELECTRICALLY CONDUCTIVE EPOXY****G6E-RTSG™**

**DESCRIPTION:** G6E-RTSG™ epoxy is developed primarily for applications that require curing at room temperature. This allows faster and safer bond/connection of conductive components or materials.

Graphene fillers add superior durability, fatigue, and crack resistance along with low electrical resistance. G6E-RTSG™ epoxy is ideal for applications involving manufacture or repair of conductive and temperature sensitive components.

**FEATURES:**

- Fast Room Temperature Curable
- Silver-Graphene Filled (Non-Magnetic)
- Excellent Electrical Conductivity
- Operating temperature is up 120 °C.

**TYPICAL APPLICATIONS:**

- EMI / RFI Shielding
- PCB Manufacture / Repair
- Photovoltaic Cell Packaging
- Temperature Sensitive Electronics Bonding
- Household Electronics Repair

**SPECIFICATIONS OF UNCURED MATERIAL:**

TWO COMPONENT SYSTEM:

Part A – smooth silver paste  
Part B – smooth silver paste

MIX RATIO:

100 (Part A) to 20 (Part B) by weight

POT LIFE:

15 minutes

CURING SCHEDULE:

4 hours @ 25°C / 77°F  
30 minutes @ 60°C / 140°F  
10 minutes @ 150°C / 302°F

DENSITY:

Part A 2.9 - 3.0 g/cm<sup>3</sup>  
Part B 2.7 - 2.9 g/cm<sup>3</sup>

MIXED VISCOSITY:

250 - 300 Pa·s @ 25°C / 77°F



**G6-EPOXY™**

**SPECIFICATIONS OF CURED MATERIAL:**

HARDNESS, SHORE:	> 70 D
GLASS TRANSITION TEMPERATURE (Tg):	75°C/ 82 °F (cured at 80°C/176 °F)
FLEXURAL MODULUS:	250 - 500 MPa at 25°C
LOSS MODULUS:	160 - 300 MPa at 25°C
VOLUME RESISTIVITY:	<0.009 Ω-cm (cured at RT) <0.0005 Ω-cm (cured at 150°C/302 °F)

**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.

**G6-EPOXY™ is a trademark owned by Graphene Laboratories, Inc.**

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