



**G6-EPOXY™**

**1K SILVER-GRAPHENE ELECTRICALLY CONDUCTIVE EPOXY**

**G6E-1KMSG™**

**DESCRIPTION:** Single component G6E-1KMSG™ epoxy is developed for general purpose applications requiring high- performance bond or connection of electrically conductive components/materials that require low electrical resistivity. The system cures at 150°C / 302°F in 30-40 minutes. It does not cure at room temperature (25°C / 77°F), so it has an unlimited working time and there is no need for it to be stored frozen. Graphene fillers add superior durability, fatigue, and crack resistance along with low electrical resistance.

**FEATURES:**

- Silver-Graphene Filled (Non-Magnetic)
- Excellent Electrical Conductivity
- Tough and Durable
- Convenient single component system
- Long working time

**TYPICAL APPLICATIONS:**

- Wearable Electronics
- EMI / RFI Shielding
- PCB Manufacture / Repair
- Photovoltaic Cell Packaging
- Solder Replacement

**SPECIFICATIONS OF UNCURED MATERIAL:**

ONE COMPONENT SYSTEM:

Smooth silver paste

CURING SCHEDULE:

1h 15min @ 120°C / 248°F or  
30 min @ 150°C / 302°F

DENSITY:

2.9 - 3.1 g/cm<sup>3</sup>

VISCOSITY:

130 - 180 Pa·s @ 25°C / 77°F

**SPECIFICATIONS OF CURED MATERIAL:**

HARDNESS, SHORE:

> 70 D

GLASS TRANSITION TEMPERATURE (T<sub>g</sub>):

93°C/ 200 °F (cured at 120°C/248 °F)

FLEXURAL MODULUS

6.0-6.9 GPa at 25°C

LOSS MODULUS

150-200 MPa at 25°C

VOLUME RESISTIVITY:

<0.002 Ω·cm (cured at 120°C/ 248°F)  
<0.0002 Ω·cm (cured at 150°C/302 °F)

**GENERAL INFORMATION:**

**STORAGE & SHELF LIFE:** 6 months @ 25°C / 77F or up to 12 months @0 -10°C/32F in unopened 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.

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