



**G6-EPOXY™**

**1K NANOCARBON ELECTRICALLY CONDUCTIVE EPOXY**

**G6E-9KMBP™**

**DESCRIPTION:** G6E-9KMBP is a single component epoxy system that is developed for general purpose applications requiring a 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. We use a proprietary mix of high-performance carbon/graphene-based additives to achieve superb electrical properties for a non-metallic electrically conductive epoxy.

**FEATURES:**

- Non-magnetic; carbon filled
- Low electrical resistivity: <20 Ohm·cm
- Low Cost, Low Density
- Impact / Shock Resistant

**TYPICAL APPLICATIONS:**

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

**SPECIFICATIONS OF UNCURED MATERIAL:**

ONE COMPONENT SYSTEM:

Black paste

CURING SCHEDULE:

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

DENSITY:

1.1 - 1.2 g/cm<sup>3</sup>

VISCOSITY:

550 - 600 Pa·s @ 25°C / 77°F

**SPECIFICATIONS OF CURED MATERIAL:**

HARDNESS, SHORE:

> 70 D

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

88°C/ 200 °F (cured at 120°C/248 °F)

FLEXURAL MODULUS

3.0-4.0 GPa at 25°C

LOSS MODULUS

120-150 MPa at 25°C

VOLUME RESISTIVITY:

<20 Ω·cm (cured at 120°C/ 248°F)

**GENERAL INFORMATION:**

**STORAGE & SHELF LIFE:** 4 months @ 25°C / 77F or up to 6 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.

**G6-EPOXY™**

Graphene Laboratories, Inc.  
760 Koehler Avenue, Suite 2  
Ronkonkoma, NY 11779

Web: <https://g6-epoxy.com>

Phone: 631-405-5115

Fax: 781-287-1248

Email: [support@graphenelab.com](mailto:support@graphenelab.com)