

NANOCARBON ELECTRICALLY CONDUCTIVE EPOXY

G6E-P™

DESCRIPTION: G6E-P^M epoxy is primarily developed for general purpose applications requiring high performance bond or connection of electrically conductive components/materials.

We use a proprietary mix of high-performance carbon filler to achieve superb electrical properties for a non-metallic electrically conductive epoxy. Operating temperature is up to 120°C/257°F.

FEATURES:

- Non-magnetic; carbon filled
- Good electrical resistivity: <10 Ohm·cm
- Low Cost, Low Density
- Excellent gap-filling adhesive
- Impact / Shock Resistant

TYPICAL APPLICATIONS:

- Photovoltaic (Solar) Cells
- Casting, Coating & Encapsulation
- EMI / RFI Shielding
- Display Packaging / Bonding
- Temperature Sensitive Electronics
- Medical Devices / Sensors
- Solder Replacement

SPECIFICATIONS OF UNCURED MATERIAL:

TWO COMPONENT SYSTEM:

MIX RATIO:

WORKING TIME:

CURING SCHEDULE:

DENSITY:

MIXED VISCOSITY:

Part A – smooth black paste Part B – smooth black paste

100 (Part A) to 50 (Part B) by weight

2 - 3 hours

24 hours @ 25°C / 77°F or 3 hours @ 80°C / 176°F 45 min @ 150°C / 302°F

Part A 1.0 - 1.2 g/cm³ Part B 1.0 - 1.1 g/cm³

450 - 550 Pa·s @ 25°C / 77°F

gap plates = 900 μ m, oscillation rate = 1.25 s⁻¹



SPECIFICATIONS OF CURED MATERIAL: cured at 80°C/176°F

HARDNESS, SHORE: > 70 D

GLASS TRANSITION TEMPERATURE (Tg): 62°C / 153°F

FLEXURAL MODULUS 2.5 - 3.5 GPa at 25°C

LOSS MODULUS 120 - 250 MPa at 25°C

VOLUME RESISTIVITY: <10 Ω·cm

GENERAL INFORMATION:

ABOUT G6-EPOXY™:

Stir both components before use. Add Part B to Part A MIXING INSTRUCTIONS: and mix slowly until uniform in a separate container.

12 months @ 25°C / 77°F in unopened, unmixed STORAGE & SHELF LIFE: containers. Stores and ships at room temperature.

No freezing is required.

Always read both SDS before use. Use product with SHIPPING & HANDLING:

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.

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™ Depending products. upon your application

requirements, custom G6-EPOXY™ formulation

may be available.

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

G6-EPOXY™

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