G6-EPOXY™

FLEXIBLE SILVER-NANOCARBON ELECTRICALLY CONDUCTIVE EPOXY G6E-FXNS™

DESCRIPTION: Conductive Silver/Nanocarbon Flexible Epoxy G6E-FXNS™ has been developed for applications that require high flexibility of solderless interconnections such as wearable electronics, flexible wires, and sensors. Operating temperature is up to 120°C/257°F.

Our G6E-NS series of epoxies were developed with advanced proprietary technology requiring reduced silver content while performing on par with leading silver based epoxies in terms of electrical properties. This innovation makes G6E-FXNS™ less dense, more flexible, and allows for stronger adhesion to the target substrate.

FEATURES:

- Flexible (after curing)
- Silver-Graphene Filled (Non-Magnetic)
- Excellent Electrical Conductivity
- Tough and Durable
- Room Temperature / Oven Curable (depending upon desired cure time)

TYPICAL APPLICATIONS:

- Wearable Electronics
- Medical Sensors
- Fiber-Optics Packaging
- Flexible Electronics, Wiring & Harnesses
- Solder Replacement

SPECIFICATIONS OF UNCURED MATERIAL:

TWO COMPONENT SYSTEM:	Part A – smooth grey paste Part B – smooth silver paste
MIX RATIO:	100 (Part A) to 100 (Part B) by weight
POT LIFE:	1 - 2 hours
CURING SCHEDULE:	45 min @ 150°C / 302°F
DENSITY:	Part A 1.7 - 2.2 g/cm³ Part B 2.4 - 2.6 g/cm³
MIXED VISCOSITY:	35 - 65 Pa·s @ 25°C / 77°F

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SPECIFICATIONS OF CURED MATERIAL:

HARDNESS, SHORE:	> 40 A
GLASS TRANSITION TEMPERATURE (Tg):	37 °C/ 99 °F
FLEXURAL MODULUS	250 - 500 MPa at 25°C
LOSS MODULUS	160 - 200 MPa at 25°C
VOLUME RESISTIVITY:	<0.005 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:	12 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™
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