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125-47C

OPAQUE BLACK DIELECTRIC INK

DESCRIPTION: 125-47C is an opaque black, one component, solvent-resistant, electrically insulating ink, coating and adhesive suitable for screen-printing. This product features excellent adhesion to Kapton®, Mylar®, glass, polycarbonate ITO coated substrates and a variety of other substrates. Unlike conventional dielectric materials, this product is very resistant to methyl ethyl ketone. It is also very resistant to scratching and creasing. Some applications for 125-47C include, but are not limited to, dielectric insulation of thick film circuitry, improving moisture resistance, arc track resistance, and weathering resistance of electrical/electronic devices. 125-47C is a pre-catalyzed version of 125-47A/B.

TYPICAL CURED PROPERTIES:

Color	Opaque Black
Volume Resistivity (ohm-cm)	1x10 ¹⁶
Dielectric Constant (50 Hz)	4.0
Dielectric Strength (volts/mil)	450
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to 250
Thermal Stability (°C)	Good to 325

SUGGESTED HANDLING AND CURING INSTRUCTIONS: Material is ready to use as received. Remove product from freezer and allow material to warm to room temperature before opening container. Best results are obtained when product is cured at one of the following schedules:

Time	Temperature (°C)
4 hours	80
1 hour	100
45 mins	120
5 mins	175

STORAGE: Shelf life: < 7 days at 25°C or 6 months at -40°C

SAFETY & HANDLING: Use 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.

All technical information is based on data obtained by CMI personnel and is believed to be reliable. No warranty is either expressed or implied with respect to suitability in particular application or possible infringements on patents.

REVISION DATE: 5/31/12 REVISION: B