



128-03A/B-187

OPAQUE BLACK DIELECTRIC INK

DESCRIPTION: 128-03A/B-187 is an opaque black, two component, solvent-resistant, electrically insulating ink and coating 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 128-03A/B-187 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.

MIXING INSTRUCTIONS: Premix 128-03 Part A, in original container prior to adding curing agent. Add B-187 and mix until uniform. At this point the material may be thinned by adding small amounts of CMI 120-08 thinner.

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|-----------------------------|---------------|--------------|
| | Part A | B-187 |
| Mix ratio by weight | 100 | 1.3 |
| Pot-Life once mixed at 25°C | 4 Days | |

CURE SCHEDULE:

| Time | Temperature (°C) |
|----------|------------------|
| 16 hours | 65 |
| 4 hours | 80 |
| 20 mins | 100 |
| 10 mins | 120 |
| 5 mins | 150 |

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 |

STORAGE: Shelf life: 12 months at 25°C, in unopened, unmixed containers

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. **Note:** It is not unusual for crystallization of the Part B to occur. Warm to 40-45°C in a water bath to return the material to it's original viscosity. The crystallization does not affect the performance of the product in any way.

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: 1/19/18 REVISION: A