



**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.

	<b>Part A</b>	<b>B-187</b>
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 <sup>16</sup>
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