

Creative Materials, Inc. 12 Willow Road Ayer, MA 01432 ISO 9001 CERTIFIED

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125-10

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 125-10 electrically conductive ink and coating suitable for application by screen printing and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 125-10 include, but are not limited to, EMI/RFI shielding of polyimide flexible circuits, polymer thick film circuitry, membrane switches, electrical attachments for surface mounted devices, and anode coatings for tantalum capacitors. For some applications, 125-10 can be used as a lower cost alternative to some of our standard conductive inks.

TYPICAL CURED PROPERTIES:

Consistency Smooth Paste

Percent Filler, cured 88

Crease Resistance Excellent Volume Resistivity (Ω -cm) 0.00004 Sheet Resistivity (Ω /sq/mil, MAX.) 0.015

Solderable No

Hydrolytic Stability Excellent

Useful Temperature Range (°C) -55 to +200

Thermal Stability (°C) Good to +325

Theoretical Wet Coverage (in²/gm/mil) 29 *
Specific Gravity 2.07

SUGGESTED HANDLING & CURING: 125-10 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 102-03. When working with polycarbonate thin with 120-08. Prior to using, be certain to re-suspend fillers. <u>Best</u> properties, for most applications, result when cured for several minutes at 170°C to 180°C. <u>Good</u> properties are obtained on a variety of substrates by drying and curing at temperatures ranging from 50°C to 150°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life - 6 months at 25°C; or 9 months at 5°C; or 12 months at -10°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 results or possible infringements on patents.

REVISION DATE: 06/27/16 REVISION: F