

Creative Materials, Inc.
12 Willow Road
Ayer, MA 01432

T 978.391.4700
F 978.391.4705

125-10ADP

ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 125-10ADP electrically conductive ink and coating suitable for application by screen printing and syringe dispensing. This product features excellent adhesion to Kapton, treated and untreated Mylar, and a variety of other surfaces. Unlike conventional conductive materials, this product is very resistant to flexing and creasing. Some applications for 125-10ADP 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, 125-10ADP can be used as a lower cost alternative to some of our standard conductive inks and is a harder version of 125-10AD.

TYPICAL CURED PROPERTIES:

Viscosity (cps)	21,500
Percent Filler, cured	> 87
Crease Resistance	Excellent
Volume Resistivity (Ω -cm, MAX.)	0.00003
Sheet Resistivity (Ω /sq/mil, MAX.)	0.015
Solderable	No
Hydrolytic Stability	Excellent
Useful Temperature Range ($^{\circ}$ C)	-55 to +180
Thermal Stability ($^{\circ}$ C)	Good to +230
Theoretical Wet Coverage (in ² /gm/mil)	24.9
Specific Gravity	2.45

SUGGESTED HANDLING & CURING: 125-10ADP is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner 102-03 or 127-17. Prior to using, be certain to re-suspend fillers. **Best** properties, for most applications, result when cured for several minutes at 100 $^{\circ}$ C. **Good** properties are obtained on a variety of substrates by dry and curing at temperatures ranging from 50 $^{\circ}$ C to 150 $^{\circ}$ C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life - 6 months at 25 $^{\circ}$ C; or 12 months at -10 $^{\circ}$ 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: 10/25/19 REVISION: A