



Creative Materials, Inc.
141 Middlesex Road
Tyngsboro, MA 01879

T 978.649.4700
F 978.649.2040

124-32

DIELECTRIC INK, COATING & ADHESIVE

DESCRIPTION: 124-32 is a clear, flexible, electrically insulating ink, coating and adhesive suitable for application by stamping, screen printing, dipping and syringe dispensing. This product features excellent adhesion to Kapton, Mylar, glass, and a variety of other surfaces. Unlike conventional insulating materials, this product is very resistant to flexing and creasing. Some applications for 124-32 include, but are not limited to, insulating polyimide flexible circuits, polymer thick film circuitry, and membrane switches.

TYPICAL CURED PROPERTIES:

Consistency	Thick Liquid
Crease Resistance	Excellent
Volume Resistivity (Ω -cm)	1×10^{11}
Dielectric Strength (volts/ mil)	525
Hardness (Shore D)	60
Tensile Strength (psi)	6500
Tear Resistance (lbs/in)	> 300
Moisture Vapor Transmission	Low
Glass Transition Temperature ($^{\circ}$ C)	15

SUGGESTED HANDLING & CURING: 124-32 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of thinner #203 and/or butyl cellosolve acetate. Best properties for most applications result when thermally cured for several minutes at 150 $^{\circ}$ C to 180 $^{\circ}$ C and followed by cure using a 200-300 watt/inch mercury vapor lamp. Speed of UV cure will vary depending upon available energy. Typical cure time ranges from a few seconds to 1minute when work is positioned 6-10 inches from lamp. Good properties are obtained on a variety of substrates by thermally curing at temperatures ranging from 50 $^{\circ}$ C to 180 $^{\circ}$ C and following with UV. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 6 months at 21 $^{\circ}$ 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: 2/5/07 REVISION: A