



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

T 978.391.4700
F 978.391.4705

124-18

DIELECTRIC INK & COATING

DESCRIPTION: 124-18 is a matte finish, flexible, electrically insulating ink and coating suitable for application by 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 124-18 include, but are not limited to, insulating polyimide flexible circuits, polymer thick film circuitry, and membrane switches.

TYPICAL CURED PROPERTIES:

Viscosity (cps)	15,000 – 20,000 cps
Color	White
Crease Resistance	Excellent
Volume Resistivity (ohm-cm)	1×10^{11}
Tear Resistance (lbs/in.)	> 300
Moisture Vapor Transmission	Low
Glass Transition Temperature (°C)	26

SUGGESTED HANDLING & CURING: 124-18 is ready to use as supplied. Stir gently before using. Further thinning may be accomplished by adding small amounts of thinner 120-08. Best properties for most applications result when cured for one hour at 125°C. Good properties are obtained on a variety of substrates by 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 21°C in tightly sealed 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.

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: 03/11/16 REVISION: B