



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

T 978.391.4700
F 978.391.4705

122-45

DIELECTRIC INK, COATING & ADHESIVE

DESCRIPTION: 122-45 is an extremely 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 122-45 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
Dielectric Constant	3.4
Loss Tangent	0.023 @ 1GHz
Hardness (Shore D)	55
Tensile Strength (psi)	6,500
Tear Resistance (lbs./in)	> 300
Moisture Vapor Transmission	Low

SUGGESTED HANDLING & CURING: 122-45 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of CMI thinner 102-03 and/or 113-12. Best properties for most applications result when cured for 30 minutes at 175°C. Good properties are obtained on a variety of substrates by curing at temperatures ranging from 50°C to 180°C. End user is advised to experimentally determine temperature and time best suited for individual applications.

STORAGE: Shelf Life: 3 months at 21°C; or 6 months @ 5°C; or 12 months @ -10°C when kept in 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.