



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

T 978.391.4700
F 978.391.4705

127-10

FAST DRYING, ELECTRICALLY CONDUCTIVE INK

DESCRIPTION: 127-10 is a fast drying, silver filled ink, designed for producing electrically conductive traces on rigid and flexible circuit boards. This material provides excellent adhesion to aluminum, glass, Mylar, Kapton, and a variety of other substrates. Some additional applications for 127-10 include, but are not limited to, emi/rfi shielding, polymer thick film circuitry, membrane switches and circuit repair.

TYPICAL CURED PROPERTIES:

Consistency	Low Viscosity Liquid
Filler	Silver
Percent Silver, cured	87
Crease Resistance	Good
Volume Resistivity (Ω -cm)	
Cured at 25°C	0.00025
Cured at 150°C	0.00005
Sheet Resistivity (Ω /sq/mil)	
Cured at 25°C	0.10
Cured at 150°C	0.02
Hydrolytic Stability	Excellent
Useful Temperature Range (°C)	-55 to +150

SUGGESTED HANDLING & CURING: 127-10 is ready to use as supplied. Further thinning may be accomplished by adding small amounts of Butyl acetate. Prior to using, be certain to re-suspend silver. Product will cure at 25°C in 5-10 minutes. Maximum room temperature conductivity is reached in 20 minutes. The ultimate conductivity, and chemical resistance is obtained by curing at 150°C for 5-10 minutes. End user is advised to experimentally determine the cure schedule best suited for the individual application.

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.