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**Product  
Bulletin**

**800-1120**

# **E-SHIELD EC-1120 ELECTRICALLY CONDUCTIVE FLEXIBLE INK**

## **GENERAL DESCRIPTION**

**E-SHIELD EC-1120** is a one component electrically conductive ink.

**E-SHIELD EC-1120** is a silver filled polymer system which exhibits outstanding adhesion to a variety of substrates, such as kapton, mylar, glass, polyester, ceramic, etc. This thick film ink provides excellent conductivity for many electronic applications. It is screen printable and also sprayable.

## **FEATURES:**

- ✓ Low viscosity
- ✓ Excellent Adhesion
- ✓ Flexible
- ✓ Low Electrical Resistance

## **APPLICATIONS:**

- ✓ Membrane Switches
- ✓ Flexible Circuits
- ✓ Polymer Thick Film Circuits
- ✓ EMI/RFI Shielding

## **TYPICAL SPECIFICATIONS:**

Color:	Silver
Viscosity, 25°C, CPS:	9,000
Specific Gravity, 25°C:	2.2
Electrical Resistivity, Ohms/CM:	0.0002
Operating Temperature, °C:	-20 to +140
Flash Point, °C (°F)	99 (211)

## **SHELF LIFE:**

The expected shelf life is 6 months in original unopened container. Store between 65-85°F in dry area.

## **INSTRUCTIONS FOR USE:**

1. All surfaces to be coated or bonded should be completely clean and grease free.
2. Since some silver settling may occur in storage, re-mix each container prior to use.
3. Apply on 230-325 mesh polyester or stainless steel screen with solvent resistant emulsion.  
40-3920 can also be sprayed or dispensed through syringes.
4. Cure according to one of the following cure schedules:
  - A) 25°C (77°F) 20-30 Minutes
  - B) 225°F (107°C) 8-10 Minutes
5. Theoretical Coverage  
720 sq.ft/gal/mil (7.10m<sup>2</sup>/kg)

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