

# EI-702 Ink

## SILVER CONDUCTIVE INK

### Product Description

EI-702 ink is formulated for inkjet deposition and for applications that require high conductivity and low curing temperatures. This unique particle free ink has stable jetting performance and a long shelf life with refrigerated storage. The low curing temperature makes the EI-700 series suitable for plastic substrates such as PET. They also show good adhesion to several common materials such as PC, COP, and Polyimide products.

### Product Highlights

- Particle Free Silver Conductive Ink
- High Electrical Conductivity
- Low Thermal Curing
- IR Light Curable
- Adhesion to Plastics
- High stability and ink-jettability
- Confirmed compatibility with the following inkjet heads: Dimatix, DMP, Samba

### Ink Processing

#### Handling

- Store refrigerated at 4°C
- Print and cure in a well-ventilated area

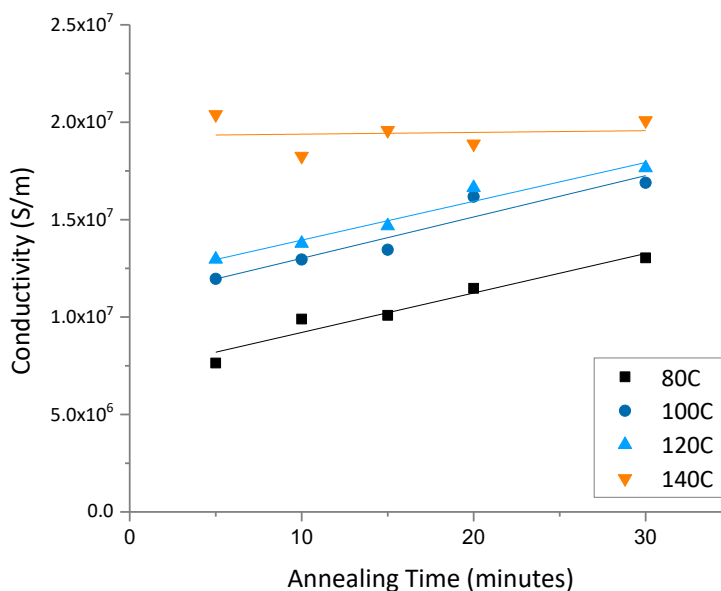
#### Curing

- 80-140°C for 20 minutes in a convection oven

### Table 1-Typical Ink Physical Properties

Properties	Values
Color	Light Yellow, Translucent Liquid
Viscosity	7 cPs
Surface Tension	25-30 dyne/cm
Solid Content	12%
Shelf Life	>4 months refrigerated

### Plot 1-Typical Electrical Properties



#### Films – Plot 1

- Bar coated, with typical dry film thickness of 370nm
- Cured at indicated conditions
- Ohm/square (OPS) measurements by HM21 Portable Four Point Probe Test Meter

### Table 2-Typical Electrical Properties (cont.)

Properties	Values
Bulk Conductivity	30% of bulk Ag at 370nm thick
Adhesion (ASTM tape test)	5B (on Melinex ST505)
Clean-up Solvent	Isopropyl Alcohol