

EI-710 Ink

SILVER CONDUCTIVE INK

Product Description

EI-710 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.

Product Highlights

- Particle Free Silver Conductive Ink
- High Electrical Conductivity
- Low Thermal Curing
- IR Light Curable
- Adhesion to Plastics
- High stability and ink-jettability

Ink Processing

Handling

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

Curing

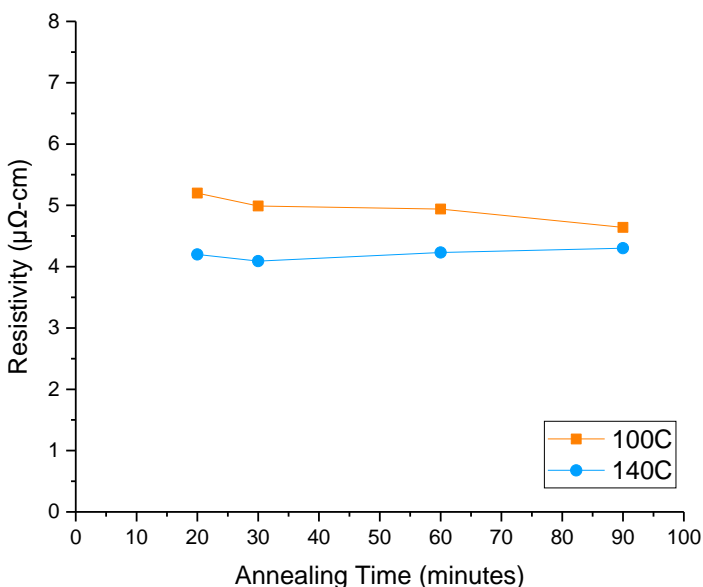
- 80-140°C for 20 minutes in a convection oven

Table 1-Typical Ink Physical Properties

Properties	Values
Color	Light Yellow, Translucent Liquid
Viscosity	8 cPs
Solid Content	12%
Shelf Life	>4 months refrigerated

Note: Shelf life is from date of qualification in original seal. Do not return product to original container, due to possible contamination during use.

Plot 1 – Typical Electrical Properties



Prints – Plot 1

- Inkjet printed, Dimatix Waveform
- Cured at indicated conditions
- PET substrate

Table 2-Typical Electrical Properties

Properties	Values
Bulk Conductivity	30% of bulk Ag at 1µm thick
Adhesion (ASTM tape test)	5B (on Melinex ST505)
Clean-up Solvent	Isopropyl Alcohol