

EI-1149/EI-1150 Ink

Product Description

EI-1149 and EI-1150 inks are formulated for inkjet deposition and for additive/digital manufacturing applications that require high conductivity. These metal-complex particle free inks have stable jetting performance. The low-temperature curing profile makes the EI-1100 series suitable for substrates that can withstand 60 minutes of 180 °C thermal curing.

Product Highlights

- Particle Free Silver Conductive Ink
- High Electrical Conductivity
- High stability
- Compatibility with Dimatix DMP, Samba, Xaar, Epson, and Konica Minolta printheads

Table 1-Typical Ink Physical Properties

Properties	EI-1149	EI-1150
Color	Colorless, Translucent Liquid	Pale Yellow, Translucent Liquid
Viscosity @25°C	6 cP	6 cP
Surface tension	29 mN/m	30 mN/m
Silver Content	16% - 17%	16% - 17%
Shelf Life	3 months at 4 °C refrigerator	3 months at 4 °C refrigerator
Resistivity	4-5 uOhm-cm at 180°C curing	6-10 uOhm-cm at 180°C curing

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

Ink Processing

Handling

- Store at 4°C refrigerator in a tightly sealed amber glass container with PTFE cap.
- Print and cure in a well-ventilated area

Curing

- Typical: 180 °C for 60 minutes
- UV curable with 365 nm UV LED (3 W/cm²) for 3 minutes (tested on PI)

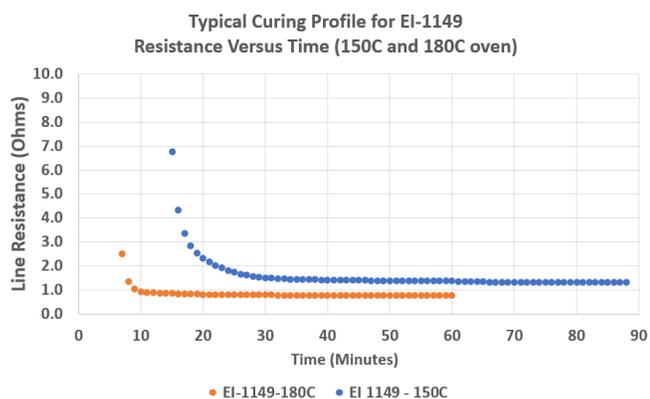
Adhesion (ASTM D3359)

- EI-1150 has shown 5B adhesion on polyimide substrates and solder resist at 1 um thickness

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Resistivity

The ink has been cured in-situ during both oven curing and UV curing with a 365nm LED lamp as shown below:



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