

## EI-1149/EI-1150 Ink

### Product Description

EI-1149/EI-1150 ink is formulated for inkjet deposition and for additive/digital manufacturing applications that require high conductivity. This metal-complex particle free ink has stable jetting performance and a long shelf life at room temperature. The low curing profile makes the EI-1100 series suitable for substrates that can withstand 30 minutes of 180°C thermal curing.

### Product Highlights

- Particle Free Silver Conductive Ink
- High Electrical Conductivity
- High stability
- Confirmed compatibility with the following inkjet heads: Dimatix DMP and Samba head

**Table 1-Typical Ink Physical Properties**

Properties	EI-1149	EI-1150
Color	Colorless, Translucent Liquid	Pale Yellow, Translucent Liquid
Viscosity @25C	6 cP	6 cP
Surface tension	29 mN/m	30 mN/m
Silver Content	16% - 17%	16% - 17%
Shelf Life	>3 months at 4C refrigerator	>3 months at 4C refrigerator
Resistivity	4 uOhm-cm at 180C curing	5 uOhm-cm at 180C 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 4C refrigerator in a tightly sealed amber glass container with PTFE cap.
- Print and cure in a well-ventilated area

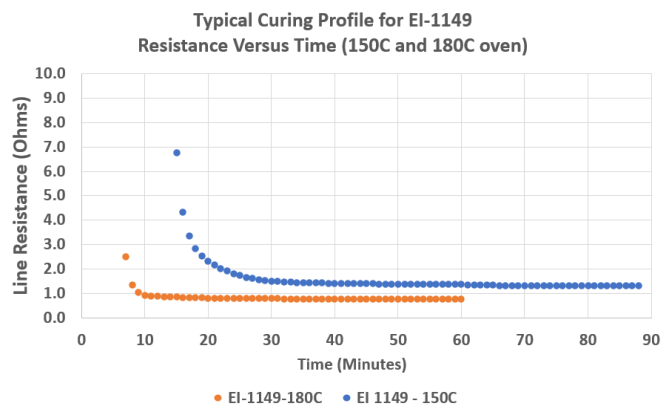
#### Curing

- Typical: 180°C for 30 minutes
- UV curable with 365nm LED (9W/cm<sup>2</sup>) <30 seconds (This is tested on PI)

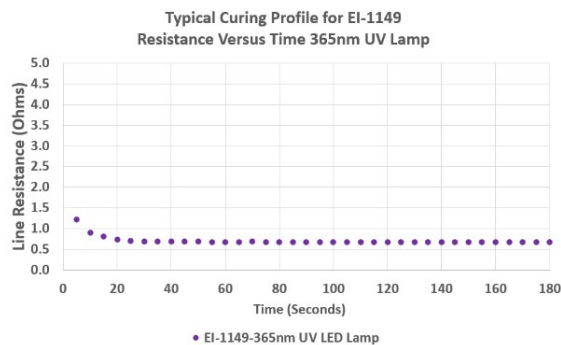
#### Adhesion (ASTM D3359)

Substrate	EI-1149	EI-1150
Epoxy Molding Compound	5B	5B
Polyimide	5B	5B
Glass	0B	0B
Solder Resist	4B	5B

#### Resistivity



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



Distributed by

**FUJIFILM**