

# EI-1207 Ink

## SILVER CONDUCTIVE INK FOR SPRAY COATING

### Product Highlights

- Polymer-free silver MOD ink
- Lead-free and halogen-free
- Dense microstructure
- High electrical conductivity
- Instant cure during printing
- Excellent adhesion to PI, PET and EMC

### Examples of Ink Processing

#### Storage and Handling

- Store between -14 °C to -20 °C when ink is not actively used.
- Thaw 20 mL sample for 15 minutes or until sample reaches room temperature.
- Cleaning solvent: Isopropanol

#### Typical Curing

- Spray coat on a heated platen (surface temperature of substrate should be approximately 160 °C).
- $\geq 160$  °C for at least 20 minutes in a box oven.
- Print and cure in a well-ventilated area.

**Table 1-Example Electrical Properties**

Spray Coat Platen Temp (°C)	Final Cure (°C/min)*	Thickness (µm)	Resistivity (µΩ-cm)
90	175 °C/ 30 min	5	6
100		5	5
120		5	5
140		4	5
155		4	6
170		4	6

\*Note: Spray coated on Si wafer pieces.

**Table 2-Typical Physical Properties**

Properties	Values
Viscosity	12.0 - 24.0 cP
Silver Content	12 - 14%
Shelf life	6 months (at recommended storage conditions)
Adhesion	5B

*These properties have been measured during controlled experiments at our Electroninks laboratories. Details of these experiments are available upon request.*

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