

EI-901 Ink

SILVER CONDUCTIVE INK

Product Description

EI-901 ink is formulated for screen printing applications which require high conductivity and low curing temperatures. This unique silver ink has a long shelf life with refrigerated storage. The low curing temperature makes the EI-900 series suitable for substrates such as PET, PC, and COP, as well as fabric and textiles, with good adhesion.

Product Highlights

- Silver Conductive Ink
- High Electrical Conductivity
- Low Temperature Curing
- Ideal viscosity for screen printing
- Adhesion to PET, ITO, glass and textiles

Ink Processing

Handling

- Store refrigerated at 4°C
- Filtering is not advised
- Mix well before using (shaking and/or stirring)

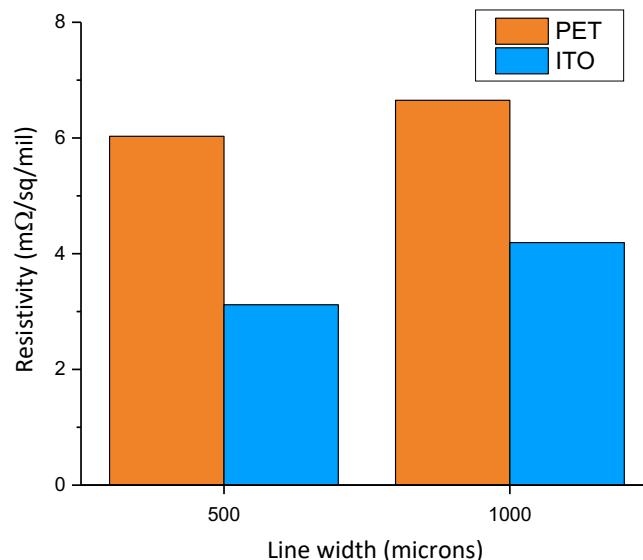
Curing

- 115-140°C for 20 minutes in a convection oven (depending on substrate)
- Print and cure in a well-ventilated area

Table 1-Typical Ink Physical Properties

Properties	Values
Viscosity	20,000 cPs
Thixotropic Index	2
Solid Content	26%
Shelf Life	>2 months refrigerated

Plot 1-Finger Resistivity on ITO and PET



Screen Prints – Plot 1

- Screen: 200 mesh, EOM 15 micron
- Printing parameters: 40N, 100mm/sec squeegee speed, 1.9 mm snap off
- Cured with ramp from 30°C to 115°C at 10°C/min for 20 minutes
- Approximate thickness: 1 micron

Table 2-Typical Electrical Properties (cont.)

Properties	Values
Resistivity on PET	Approximately 6 mΩ/□/mil
Resistivity on ITO	< 4 mΩ/□/mil
Achievable feature size	Approximately 70um patterning
Adhesion (ASTM tape test)	5B (on Melinex ST505)
Clean-up Solvent	Isopropyl Alcohol