

EI-904 / EI-909

SILVER METAL COMPLEX PASTE

Product Highlights

- Silver metal complex paste
- Lead-free and halogen-free
- High electrical and thermal conductivity
- Low temperature curing
- Fine line printing for mass production
- Adhesion to PET, ITO, glass, PVDF, SNW and textiles

Examples of Ink Processing

Storage and Handling

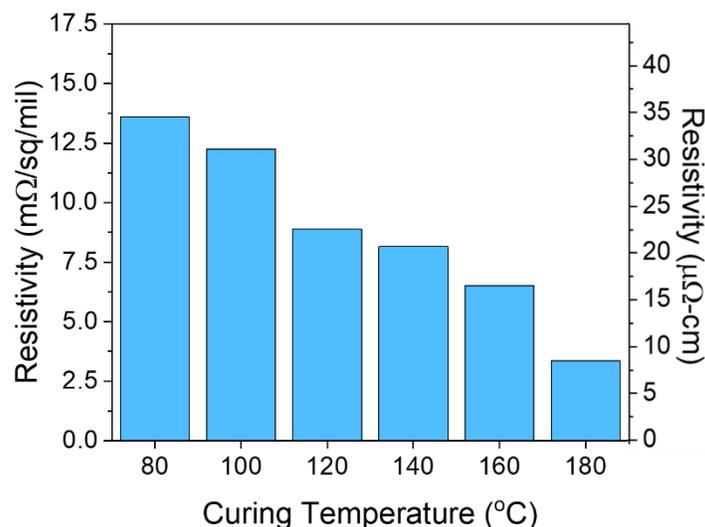
- Store refrigerated at -18 °C for periods > 8 hours. Ink can be left at room temperature during use
- Prior to use, allow ink to come to room temperature and mix well using a spatula
- Print and cure in a well-ventilated area
- Clean up solvent: Isopropyl Alcohol

Typical Ink Physical Properties

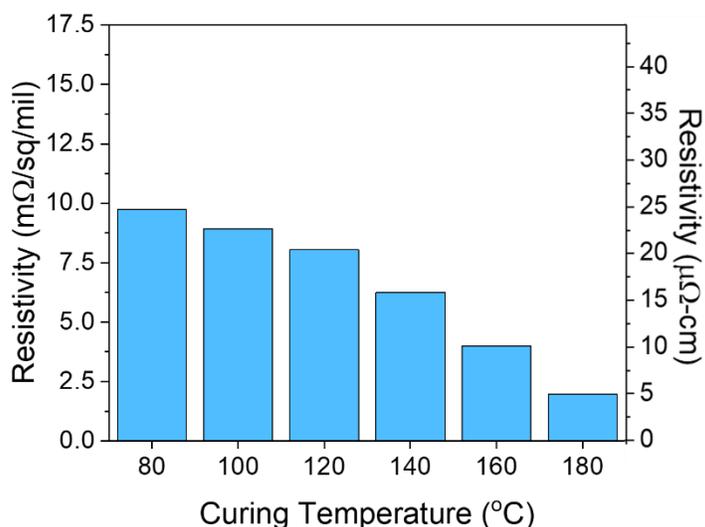
Properties	904	909
Color	Dark gray	Dark gray
Viscosity (Brookfield CPA-52Z, @ 2 s ⁻¹)	~32,000 cP	~33,000 cP
Thixotropic Index	~1.7	~1.8
Solid Content	~30 wt%	~33 wt%
Shelf Life	6 months at -18 °C	6 months at -18 °C

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

Typical Electrical Properties of EI-904



Typical Electrical Properties of EI-909



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Typical Screen Print Parameters

- Screen: 360 mesh, EOM 14-16 μm
- Printing parameters: 40-60 N, 20 mm/second squeegee speed, 1.5 mm snap off
- Approximate width: 300 μm
- Approximate thickness: 1 μm
- Cured for 20 minutes in a box oven

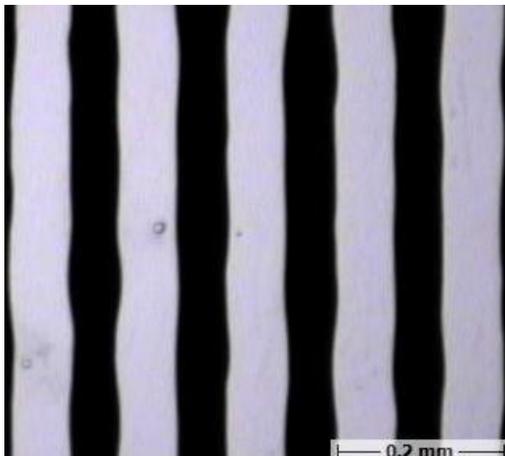
Typical Electrical Properties (continued)

Properties	Values	
Resistivity on PET	< 8.5 m Ω /sq/mil @ 140 °C	
Resistivity on Glass	< 2.9 m Ω /sq/mil @ 180 °C	
Achievable feature size	50 μm patterning	
Adhesion (ASTM D3359)	904/909	904b/909b
	5B on glass	5B on ST505
Environmental Reliability Testing (85 °C / 85 % RH)	Passed 100 hours testing with <5% change in resistivity	

Based on the customer substrate, we can recommend the appropriate ink grade of 900 series



This image shows screen printed lines with a width of 125 μm using EI-904.



Examples of fine feature screen printing using EI-904. These lines have a width of 58 μm .

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