

SunTronic Conductive Silver Ink AST6025

Product Description

SunTronic Conductive Silver Ink AST6025 is a screen printable conductive ink specifically designed for printing fine line and fine pitch conductive traces.

The ink exhibits high viscosity, low slumping, excellent conductivity and environmental stability, and adhesion to various substrates, including glass, various metals, PET, and transparent conductive films.

AST6025 is specifically suitable for printing of fine interconnects, printed RF antennae, and bus bars for touch panels.

Typical Properties

Pigment	Silver
Binder	Thermoplastic
Viscosity (25 °C, 20 sec⁻¹), Pa.s	45-55
Solids (120 °C), %	82 - 85
Sheet Resistivity, Ω/sq/mil 150 °C/10 min	<0.010
Volume Resistivity, Ω.cm 150 °C/30 min	<2.5x10 ⁻⁵

Processing and Handling Guidelines

PRINTING

AST6025 is supplied as ready-to-use ink. It should be stirred well prior to printing. If thinning is necessary, use a maximum of 3% of ER-SOLV07 thinner by weight.

AST6025 is suitable for use on hand, semi-automatic or fully automatic screen printing machines. Typically, polyester or stainless screens with mesh count 325-430 threads/inch can be used depending on desired ink film thickness and resolution. For fine lines between 100 - 250 microns nominal line width, stainless screen mesh is preferred with mesh count between 325-400 threads/inch. For <100 microns line widths, 430 and higher stainless steel mesh counts are recommended. Cleaning with ER-SOLV07 followed by Acetone is recommended. Relevant Safety Data Sheet (SDS) should be read carefully prior to using this product.

DRYING

Typical drying temperature may range from 120-200 °C (248-392 °F) depending on temperature tolerance of the substrate. Drying time may range from 2-30 minutes. Higher drying temperature and/or longer drying times will result in better electrical performance, adhesion and mechanical properties.

Optimum drying conditions should be established for particular equipment used by the customer.

STORAGE AND SHELF LIFE

Storage at lower temperatures ~3 °C (37 °F) in a refrigerator is recommended and will assist in maintaining ink properties for up to 6 months for unopened container.

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