SunTronic PTF Silver
AST6202

Product Description

SunTronic PTF Silver AST6202 is formulated for screen printing of highly conductive traces for flexible printed circuits, RFID and other printed electronics applications.

Main Features:

- Low silver content
- High conductivity
- Excellent coverage to achieve target sheet resistivity *= more cost effective PTF silver solution*
- Excellent adhesion on coated or printed treated PET, and other films like Kapton and coated papers.
- Not containing halogenated materials
- Excellent enviro stability
- Compatible with standard PTF carbons and dielectrics

Typical Properties

Pigment	Silver
Binder	Thermoplastic
Solids (150 C, 1h)	56-59%
Viscosity (20 sec^{-1}, 25℃), Pa.s	110-130 Poise
Sheet Resistivity, Ω/sq/mil	<0.006
Coverage, m^2/kg (at ~7 micron dry film)	15
Density, g/cm^3	2.1
Shelf Life	12 months

Processing and Handling Guidelines

PRINTING

AST6202 is supplied as ready-to-use ink. It is not unusual for ink to show slightly gelled structure upon prolonged storage, mix the ink prior to use to break gel and homogenize. If thinning is required, add thinner with caution to prevent excessive thinning, use a maximum of 2-3% of ER-SOLV06 thinner by weight.

AST6202 is suitable for use on hand, semi-automatic or fully automatic screen-printing machines. Polyester or Stainless screens with mesh count 160-355 threads/inch can be used depending on desired ink film thickness. Cleaning of screens and equipment can be done with ER-SOLV06 followed by Acetone or MEK is recommended. Relevant Safety Data Sheet (SDS) should be read carefully prior to using this product.

DRYING

AST6202 can be dried by using forced air or IR systems. Typical drying temperature range in oven can range from 120-150℃ (248-302℉), drying time may range from 1-15 minutes. Drying conditions may change for different ink film thicknesses. Resistance may be reduced with higher drying temperature and/or longer drying times.

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

STORAGE AND SHELF LIFE

Storage at lower temperatures ~5 ℃ in a refrigerator is recommended and will assist in maintaining ink properties for up to 12 months for sealed and unopened container. Material removed from original container and used on press may be contaminated during use, avoid returning product into original container.

Contact your local sales or technical representative if additional information is required.

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