

SunTronic PTF Silver AST6320

Product Description

SunTronic PTF Silver AST6320 is formulated for screen printing conductive traces onto a variety of substrates.

AST6320 gives high conductivity, flexibility, excellent line definition and adhesion to various substrates, including untreated and treated polyester, Kapton, and others.

It can be used in manufacture of membrane switches, capacitive switches, general electrodes and interconnects, printed RFID antennae, security labels, touch panels and other printed electronics applications.

Typical Properties

Pigment	Silver
Binder	Thermoplastic
Solids	65-68%
Viscosity (20 sec⁻¹, 25 °C), Pa.s	26-30
Sheet Resistivity, Ω/sq/mil	<0.015
Shelf Life	6 months
Density, g/cm³	2.25

Processing and Handling Guidelines

PRINTING

AST6320 is supplied as ready-to-use ink. Please allow the ink to warm up to room T before use. It should be stirred for 1-2 min prior to use as some sedimentation may occur over time. If thinning is required, add thinner with caution to prevent excessive thinning, use a maximum of 3% of ER-SOLV06 thinner by weight.

AST6320 is suitable for use on hand, semi-automatic or fully automatic screen printing machines. Polyester or Stainless screens with mesh count 255-355 threads/inch (100-140 threads/cm) can be used depending on desired ink film thickness. Cleaning 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

Drying conditions may change for different ink film thicknesses. Typical drying temperature may range from 120-150°C (248-302°F) depending on temperature tolerance of the substrate. Drying time may range from 1-30 minutes. 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°C (41°F) in a refrigerator is recommended and will assist in maintaining ink properties for up to 6 months for sealed and unopened container.

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Sun Chemical Electronic Materials, 2445 Production Drive, St. Charles, IL 60174, USA; Tel +1 (630) 513-5348, Fax +1 (630) 587-5226

www.sunchemical.com