

# SunTronic PTF Silver AST6000-HV

## Product Description

SunTronic PTF Silver AST6000-HV is formulated for screen printing highly conductive traces onto a variety of substrates.

AST6000-HV gives low resistance and excellent adhesion to various substrates, including polyester, polycarbonate, Kapton, and others.

It can be used in manufacture membrane touch switches, printed RFID antennae, security labels, touch switches and other printed electronics applications.

## Typical Properties

<b>Pigment</b>	Silver
<b>Binder</b>	Thermoplastic
<b>Solids</b>	76-79%
<b>Viscosity (Brookfield CAP, 50RPM, 25°C), Poise</b>	175-185
<b>Sheet Resistivity, <math>\Omega</math>/sq/mil</b>	<0.015

## Processing and Handling Guidelines

### PRINTING

AST6000-HV is supplied as ready-to-use ink. It should be stirred prior to use as some sedimentation may occur over time. If thinning is required, use a maximum of 3% of ER-SOLV04 thinner by weight. Avoid rapid stirring as this may cause air entrapment.

AST6000-HV is suitable for use on hand, semi-automatic or fully automatic screen printing machines. Polyester or Stainless screens with mesh count 195-325 threads/inch can be used depending on desired line resolution and ink film thickness. Cleaning with ER-SOLV04 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 93-150°C (200-302°F) depending on temperature tolerance of the substrate. Drying time may range from 2-30 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

Product should be stored in sealed containers in a cool, dry place. Storage at lower temperatures ~5°C (41°F) in a refrigerator is recommended and will assist in maintaining ink properties for up to 12 months for unopened container.

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