

# SunTronic PTF Silver AST6010

## Product Description

SunTronic PTF Silver AST6010 is formulated for screen printing highly conductive traces onto a variety of substrates.

AST6010 gives low resistance and excellent adhesion to uncoated and coated Polyester films as well as TCO coated substrates.

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

## Typical Properties

<b>Pigment</b>	Silver
<b>Binder</b>	Thermoplastic
<b>Viscosity (Brookfield CAP, 50RPM, 25°C), Poise</b>	60 - 90
<b>Solids (120 °C), %</b>	70-73
<b>Sheet Resistivity, mΩ/sq/mil</b>	<11

## Processing and Handling Guidelines

### PRINTING

AST6010 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-SOLV06 thinner by weight.

AST6010 is suitable for use on hand, semi-automatic or fully automatic screen printing machines. Polyester or Stainless screens with mesh count 255-420 threads/inch (100-165 threads/cm) can be used depending on desired ink film thickness. Cleaning with ER-SOLV06 thinner followed by cleaning with Acetone 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 120-200°C (248-392°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

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. Shelf life of the product stored in sealed containers in a cool, dry place (10-25°C/50-77°F) is 3 months.

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