

SunTronic Silver Pad Ink

APT6003

Product Description

SunTronic Silver Pad Ink APT6003 is a pad printable conductive ink specifically designed for printing of highly conductive traces on a variety of substrates.

The ink exhibits excellent pad printability and coverage, high conductivity and great adhesion to various substrates, including PET, vinyl, polycarbonate, various metals, as well as transparent conductive films.

APT6003 is specifically suitable for printing of very smooth conductive traces on 3D surfaces for antennae applications.

Typical Properties

Pigment	Silver
Binder	Thermoplastic
Viscosity (Brookfield CAP, 25°C, 50 RPM), Poise	45-55
Solids (120 °C), %	79-82
Sheet Resistivity, Ω/sq/mil 120°C/10min	<0.015
Volume Resistivity, Ω.cm 120°C/10 min	<3.8x10 ⁻⁵

Processing and Handling Guidelines

PRINTING

APT6003 is supplied as ready-to-use ink. It should be stirred prior to printing as some sedimentation may occur over time. If thinning is necessary, use a maximum of 5% of ER-SOLV16 fast thinner by weight. Optimum amount of the thinner ER-SOLV16 depends on printing speed and cliché depth. Reseal lid tightly after using.

Relevant Safety Data Sheet (SDS) should be read carefully prior to using this product.

DRYING

Typical drying temperature may range from 90-150°C (194-302°F) depending on temperature tolerance of the substrate. Drying time may range from 2-60 minutes. Higher drying temperature and/or longer drying times will result in better electrical performance, adhesion and mechanical properties. If multiple passes are needed to increase ink deposit, drying times may vary.

Optimum drying conditions should be experimentally established by the customer for particular equipment, ink film deposit and substrate used.

STORAGE AND SHELF LIFE

Store in sealed containers in a cool, dry place (10-25°C/50-77°F). Shelf life of the product in unopened container is 6 months from the date of shipment.

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