

SunTronic PTF Graphite GST4200

Product Description

SunTronic PTF Graphite GST4200 is an economical ink for screen printing conductive traces onto a variety of substrates.

GST4200 has excellent adhesion to uncoated and coated PET, glass, and some TCO coated substrates.

GST4200 can be used by itself or in conjunction with SunTronic™ PTF Silver AST6000 for the manufacture of printed RFID antennae, security labels, membrane touch switches and other printed electronics applications.

Typical Properties

Pigment	Graphite/Carbon
Binder	Thermoplastic
Viscosity (Brookfield CAP @ 25°C)	50 – 60 poise
Solids (120 °C), %	39-42
Sheet Resistivity, Ω/sq/mil	<20
Color	Black
Shelf-life	12 months

Application and Processing

GST4200 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.

GST4200 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.

NOTE: Pretest adhesion to all substrates prior to use in production.

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.

NOTE: Optimum drying should be established for customer specific processing conditions.

Storage

When stored in sealed containers in a cool, dry place (10-25°C/50-77°F) shelf-life is 12 months.

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