

Technical Data Sheet



Product Type: Polymer Thick Film

Product Name: LTC3610

Low Roughness Silver Conductor

Description

LTC3610 is a general purpose silver conductive ink designed for screen printing. The unique formulation of LTC3610 allows for an extremely smooth print with excellent adhesion to a variety of substrates.

Key Benefits

- High conductivity
- Low temperature curing
- Compatible with Heraeus UV dielectrics
- Compatible with Heraeus low temperature resistors (LTR4600)
- Compatible with treated and untreated polyester films

Typical Properties

Resistivity:

≤ 15 milliohms/square/mil
when cured at 120 °C for 5 minutes

Adhesion:

Cross Hatch Tape Test Method
PET ≥ 4B cross hatch

Viscosity:

30 – 65 Kcps Brookfield RVT
SC4 -14 spindle and 6R utility cup @ 10 rpm, 25 °C

Mixing:

Material should be thoroughly mixed prior to use.

Recommended Processing Guidelines

Printing:

150 – 325 stainless steel mesh or polyester screen
0.3 – 0.5 mil emulsion thickness

Cleaning:

Clean uncured resin with Acetone or similar solvent.

Curing:

80 °C for 20 minutes
100 °C for 10 minutes
120 °C for 5 minutes

Cured Thickness:

6 – 8 microns

Recommended Substrates:

Treated and untreated polyester

Thinner:

LC-4124

Warranty

Material guaranteed to meet specifications for 3 months from date of shipment.

Handling & Precautions:

Use in a well-ventilated area.
Avoid contact with skin.
Wash with soap and water.

Storage

Refrigerate at 5 °C – 25 °C to ensure proper performance of shelf life.
Allow paste to come to room temperature prior to opening. Spatulate well before using, as settling may occur during storage.

SPECIAL NOTE:

Some of these materials may show resistance shifts due to thermal storage. Stability baking has been shown to minimize this behavior.

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Legend:

1) REACH compliant according to the latest ** Annex XIV to Regulation (EC) of the European Parliament and of the council on the Registration, Evaluation, Authorisation and Restriction of Chemicals ("REACH") by European Chemicals Agency and its subsequent amendments; the material does not contain any substance listed in Annex XIV.

2) RoHS compliant according to the latest ** Directives (European Union) of Restriction of Hazardous Substances ("RoHS") and its subsequent amendments (including the exceptions related to Pb)

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