

Technical Data Sheet



THICK FILM MATERIALS

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

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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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.

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