

Technical Data Sheet



THICK FILM MATERIALS

Product Type: Polymer Thick Film Product Name: LTC3901

Halogen Free Silver Conductor

Description

LTC3901 is a halogen free silver conductive ink designed for screen printing. The unique formulation of LTC3910 allows for a highly flexible print with excellent adhesion to a variety of substrates.

Key Benefits

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

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 **PVDF**

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:

Store in a dry location at 5 °C – 25 °C. Does not require refrigeration. 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:

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

Adhesion:

Cross Hatch Tape Test Method PET ≥ 4B cross hatch

Viscosity:

20 - 35 Kcps Brookfield RVT SC4 -14 spindle and 6R utility cup @ 10 rpm, 25 °C

Mixing:

Material should be thoroughly mixed prior to use.

Heraeus Electronics

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