

Technical Data Sheet



Product Type: Polymer Thick Film

Product Name: LTD5101



Blue Polymer Dielectric

Description

LTD5101 is a screen printable, single component and fast cure coating used for circuit protection and substrate insulation. This blue material, when properly cured, yields a chemically inert film which will not react with circuit components. LTD5101 provides excellent adhesion to a variety of substrate materials. This material is suitable for heater applications.

Key Benefits

- REACH¹ and RoHS² compliant
- Wide range of curing conditions
- Excellent adhesion to multiple substrates
- Yields a chemically inert film
- Ideal for heater applications
- Compatible with Heraeus polymer conductors and resistors

Typical Properties

Dielectric Breakdown Voltage:

> 1000 volts/mil

Non-Volatile: (1Hr @ 150 °C)

82 – 84 %

Viscosity:

40 – 100 Kcps, Brookfield HBT, SC4-14 spindle @ 10 rpm, 25 °C

Recommended Processing Guidelines

Printing:

280 – 325 stainless steel mesh or nylon screen
0.5 mil emulsion thickness

Curing:

60 minutes @ 220 – 300 °C
Recommended: 250 °C for 60 minutes

Thickness:

3 layers ≥ 40 µm cured film thickness

Thinner:

RV-252

Handling & Precautions:

Use in a well-ventilated area.
In general, avoid contact with skin.
Wash with soap and water.
For cleanup of uncured material, RV-540 is recommended.

Warranty

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

Storage

Store in a dry location at 5 – 25 °C

DO NOT REFRIGERATE.

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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