

## Technical Data Sheet



### THICK FILM MATERIALS

**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

- 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

##### 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  $\geq$  40  $\mu$ m 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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#### 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

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