

## Technical Data Sheet



### THICK FILM MATERIALS

**Product Type:** Polymer Thick Film

**Product Name:** LTD5301

#### Blue Over Coat

##### Description

LTD5301 is a, screen printable, single component and fast curing coating used for circuit protection and identification. This blue material, when properly cured, yields a chemically inert film which will not react with circuit components. LTD5301 provides excellent adhesion to a variety of substrate materials.

##### Key Benefits

- Screen printable
- Fast curing
- Yields a chemically inert film which will not react with circuit components

##### Recommended Processing Guidelines

###### Printing:

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

###### Curing:

60 minutes @ 150 °C or  
30 minutes @ 200 °C

\*Curing LTD5301 above 200 °C will result in discoloration of the cured film.  
This does not negatively influence any of the properties of the material

###### Thickness:

3 layers  $\geq$  40  $\mu$ m cured film thickness

###### Thinner:

RV-540

###### 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:**

> 500 volts/mil

**Non-Volatile: (1Hr @ 150 °C)**

82 – 84 %

**Viscosity:**

40 – 70 Kcps, Brookfield HBT,  
SC4-14 spindle @ 10 rpm, 25 °C

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