

Technical Data Sheet



THICK FILM MATERIALS

Product Type: Polymer Thick Film

Product Name: UVD5801

Blue UV Curable Dielectric

Description

UVD5801 is a screen printable UV dielectric ink for low cure applications. This UV dielectric ink, when properly cured, has good adhesion to most untreated and treated flexible plastic films such as polyester. UVD5801 can be used for insulation of silver traces and a dielectric for cross-overs in membrane keyboard applications.

Key Benefits

- Fast UV curing
- Good adhesion to untreated and treated flexible plastic films
- Compatible with Heraeus Ag conductor (LTC3601)

Recommended Processing Guidelines

Printing:

325 stainless steel mesh screen
0.5 mil emulsion

Curing:

550 mJ UVA source

Thickness:

25 microns (Total 2 cured layers)

Thinner:

LC-3668

Warranty:

Material guaranteed to meet specifications for 6 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 – 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 constant:

4 at 1 kHz

Dielectric Breakdown Voltage:

> 1500 Volts/mil
(2 printed layers)

Insulation Resistance:

> $50 \times 10^9 \Omega$
at 25 microns cured (2 printed layers)

Non-Volatile: (1 Hr @ 150 °C)

100 %

Viscosity:

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

Color:

Translucent blue

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