

UV Dielectric Notes

Application Guidelines

The following information is for guideline purposes only. If you have any questions, please contact Allied PhotoChemical at 810-364-6910.

DIELECTRIC SCREEN PRINTING DETAILS:

Screen Size:

- Typically utilize 280/34 Mesh Screen
- 18 Micron Capillary Film
- Could utilize 315 / 30, 305/31, and 280/40

Squeegee:

- Please utilize 70 Durometer Hydrometer Squeegee with sharp corners

Light Energy:

- Please utilize Medium Mercury "H" Bulb
 - 300 wpi @ 35 fpm
 - Cure Energy Range: >0.35 J/cm²
 - Cure exposure time: 1 - 2 Seconds
 - Depth of Cure: 3.0 – 5.0 mils

Lay Down:

- UV cured Dielectrics are different from Solvent cured Dielectrics
- Lay down should be around 0.6 mils / 15 microns
- Typically, you would put down qty. (2) layers, each at 0.6 mils to minimize any pin-holing

DIELECTRICS FAMILY: (These are some of our offerings)

- TGH 1003X2 Blue Dielectric / Application: Crossovers, tails and spacer
- TGH 1008 CL Clear conformal coating / Application: Encapsulant or "window"
- TGH 1018 WH White dielectric / Application: Crossovers, tails and spacer
- TGH 1700 CL Clear intermediate / Application: Body and/or Binder
- TGH 1705 CL Clear resin body for phosphor / Application: Body
- TGH 1710 CL Clear binder for clear conductive / Application: Body and/or Binder
- TGH 1715 CL Dielectric / Application: Distinct electrical properties, substrate adherence, flexibility, and other properties
(Available in any color)
- TGH 1715 CLIJ Ink-Jet Platform / Available in a variety of viscosity and formulations.
- TGH 1717 CL Clear Dielectric / (Available in any color)
- TGH 1900 CL Clear Dielectric / (Available in any color)
- TGH 1905 CL Clear Dielectric / (Available in any color)
- TGH 1910 CL Clear Dielectric / (Available in any color)

CUSTOMIZED FORMULATIONS:

Allied also offers customized formulation solutions for "customer specific applications – CSA's"



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