

Technical Data Sheet

DI-7502

UV Curable Dielectric Ink

DESCRIPTION **DI-7502** is UV curable dielectric ink with excellent flexibility and adhesion properties. The main uses of **DI-7502** are for membrane switches, RFID antennas, and electrodes. **DI-7502** adheres to a wide spectrum of substrates including print treated and untreated polyester, paper, and most plastic films. **DI-7502** is formulated to have superior flexibility, excellent adhesion and fast curing properties. **DI-7502** is application ready with no dilution needed. **DI-7502** is 100% solids and does not contain any VOC's.

ADVANTAGES

- ✓ High electrical resistance
- ✓ Excellent adhesion
- ✓ Superior flexibility
- ✓ Extended screen residence times
- ✓ No dilution required
- ✓ Matted green finish
- ✓ Fast curing
- ✓ Excellent printability

TYPICAL UNCURED PROPERTIES

Color	Green
Appearance	10,000 CPS@30° C.
Total Solids Content	100%
Density	10.5 lbs/gallon
Flash Point	331° F (166° C) Cleveland Open Cup
VOC	None
Theoretical Coverage	1600 ft ² /gal/Mil

TYPICAL CURED PROPERTIES

Electrical Resistance	>1,000 mega ohms
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**APPLICATION
INFORMATION**

- Screen print **DI-7502** with two separate print and cure cycles of 0.5 – 0.7 mil layers to provide a final cured layer of 1.0 – 1.5 mils. Typical screens used are 180 - 280 mesh with a 1.0 mil emulsion.
- Stainless steel fabric can be used to increase dry film thickness.

**CURE
SCHEDULE**

DI-7502 is cured with UV energy at 0.75 J/cm².
A cross hatch adhesion test can confirm a full cure

CLEAN UP

DI-7502 can be cleaned up with M.E.K (Methyl Ethyl Ketone) or a blend of solvents that will completely clean a cured film. Screens and printing tools should be allowed to dry completely before reuse. To avoid possible squeegee swelling, a solvent resistant material such as polyurethane should be used. Typically a high durometer squeegee will provide the best results.

**STORAGE AND
HANDLING**

- Shelf life is 12 months in an unopened container. Avoid sunlight.

**HEALTH AND
SAFETY**

- Use with adequate ventilation.
- Avoid skin contact.
- If ingested, consult a physician immediately.
- Consult the product Material Safety Data Sheet for additional information.

**APPLICATION
ASSISTANCE**

ECM's application specialists are available to assist you in production start-up with **DI-7502**. For more information, please call ECM at 1.740.362.4444.

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