



MD-500BL (Blue) UV CURABLE DIELECTRIC POLYMER THICK FILM INK

MD-500BL is a UV Curable Screen Printable Dielectric Coating designed to be used as an insulator for printed circuitry.

The MD-500BL adheres well to both polycarbonate and polyester film, the polyester film should be pretreated to provide the best adhesion.

The MD-500BL provides excellent levels of adhesion making it an ideal protective and insulating coating suited for use as dielectric layers, crossovers and tail coating for membrane switch applications.

The characteristics of the MD-500BL provide excellent flexibility and superior levels of abrasion resistance. The excellent adhesion properties of the dielectric enable the MD-500BL to pass crosshatch tape tests.

Appearance	Transparent
Colour	Blue
Viscosity (Brookfield DV-11 SP14 20rpm, 25°C)	11,000 ± 500 cps
Density	1.28 g/ml
Flash Point	156°C
Shelf Life	6 mths in unopened container
Dielectric Strength (ASTM D-149 Method A)	1500V AC @ 25µm (Cured)

Printing	Suitable for Manual, Semi-Automatic or High Process's
Screen Type	Monofilament Polyester 61-120 T/HD
Squeegee Type	Polyurethane 60 Durometer
Emulsion	Diazo Sensitised Direct Photo Film
Dilution	Not Required (Ready for Use)
Curing Cycle @ 25µm	Two UV lamps of 120 watt/cm at belt speed of 18m/min or two UV lamps of 80 watt/cm at a belt speed of 12m/min. Thickness greater than 25µm, lower speeds and higher lamp intensities will be required.
Storage	Store product at 2-25°C (shelf life longer at lower storage temperatures)
Handling	Ensure the MD-500BL is at room temperature before use
Protection	Protect against exposure to UV sources such as daylight and fluorescent lighting (care should be taken to avoid curing on the screen)

Safety & Handling:

The following precautions should be exercised when handling:
 Avoid prolonged contact with skin. If contact with skin occurs, wash immediately with soap and water
 Use with adequate ventilation, avoid prolonged breathing of vapour.
 Dangerous if swallowed - DO NOT CONSUME

The performance characteristics are influenced and affected by printing technique, nature of substrate, curing time, curing temperature and type of drying equipment.

Before adopting our products for commercial use, the user assumes responsibility for determining fitness of use in their particular application and process. Memcon makes no warranties and assumes no liability in connection with any use of this information.

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