



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

Printing Screen Type Squeegee Type Emulsion Dilution Curing Cycle @ 25mm  Storage Handling Protection	Suitable for Manual, Semi-Automatic or High Process's Monofilament Polyester 61-120 T/HD Polyurethane 60 Durometer Diazo Sensitised Direct Photo Film Not Required (Ready for Use) 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 25mm, lower speeds and higher lamp intensities will be required. Store product at 2-25°C (shelf life longer at lower storage temperatures) Ensure the MD-500BL is at room temperature before use 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.

**MEMCON (Asia) Limited**  
 Units 5/6 6/F Westley Square  
 48 Hoi Yuen Rd Kwun Tong Hong Kong  
 T +852 3741 1411 F +852 3747 8980  
 www.memcon.asia sales@memcon.asia

**MEMCON Limited**  
 Unit 8 Campus Five Third Avenue Letchworth  
 Hertfordshire SG6 2JF United Kingdom  
 T +44 1462 371477 F +44 1462 677499  
 www.memcon.eu sales@memcon.eu

**MEMCON North America**  
 4500 Red Arrow Hwy Unit E  
 Stevensville Michigan 49127 USA  
 T +1 269 281 0478 F +1 269 593 5952  
 www.memcon.net sales@memcon.net