



# MCC-500C CARBON CONDUCTOR

MCC-500C has been formulated as a general purpose Polymer Thick Film Carbon containing conductor for use on print treated and nonprint treated polyester.

By using a unique combination of carbon, graphite and resin technology, the MCC-500C possesses excellent conductivity, abrasion resistance and printability.

The MCC-500C is used to fabricate low voltage circuitry especially on flexible substrates.

It can be used with semi-automatic and manual printers and offers excellent residence time on the screen.

Volume Resistivity ( $\Omega/\text{sq}/\text{cm}$ ) Adhesion / Tape Pull (3M Scotch Tape #600) Abrasion Resistance, Pencil Hardness (ASTM D3363-74) Viscosity (Poise) (RION VT-04, #2 spindle, poise, 25°C) Operating Use Temperature (°C) Solderability Shelf Life	< 0.14 No Material Removal > H  250-350  < or =70 Not Recommended 6 mths in Unopened Container
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Printing Substrates Ink Residence Time on Screen Screen Types Typical Cure Conditions Typical Circuit Line Thickness Printed with 270 mesh Polyester Cleanup Solvent Storage	Suitable for Manual, Semi-Automatic, Polyester, Polycarbonate > 2 Hours Polyester, Stainless Steel Box Oven : 93°C for 2 mins 5-8 Microns  Ethylene diacetate, Toluene Store at ambient temp, some settling of solids may occur, gently stir before use, avoid rapid stirring as this causes air entrapment
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### 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