



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.

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|------------------------------------------------------|------------------------------|
| Volume Resistivity (Ω /sq/cm) | ≤ 0.14 |
| Adhesion / Tape Pull (3M Scotch Tape #600) | No Material Removal |
| Abrasion Resistance, Pencil Hardness (ASTM D3363-74) | > H |
| Viscosity (Poise) | 250-350 |
| (RION VT-04, #2 spindle, poise, 25°C) | |
| Operating Use Temperature (°C) | < or =70 |
| Solderability | Not Recommended |
| Shelf Life | 6 mths in Unopened Container |

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|---------------------------------|--------------------------------------------------------------------------------------|
| Printing Substrates | Suitable for Manual, Semi-Automatic, Polyester, Polycarbonate |
| Ink Residence Time on Screen | > 2 Hours |
| Screen Types | Polyester, Stainless Steel |
| Typical Cure Conditions | Box Oven : 93°C for 2 mins |
| Typical Circuit Line Thickness | 5-8 Microns |
| Printed with 270 mesh Polyester | |
| Cleanup Solvent | Ethylene diacetate, Toluene |
| Storage | Store at ambient temp, some settling of solids may occur, stir vigorously before use |

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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