



POLYCHEM

UV/EB INTERNATIONAL CORP.

General Introduction

Advanced UV Curable Highly Conductive Silver Paste (Ink)

Product Code: #FB2516-A

Description:

This highly conductive screen printable ink is a single component system with enhanced electric conductivity. It was developed by state of art technology that significantly reduces the cure temperature and cure time while maintaining good electric conductivity. The cured ink has a smooth surface, excellent edge definition and fine line resolution to as small as 50 microns. In addition, it has unique and excellent long-term heat aging resistance and excellent flexibility. This ink is 100% solid, contains no solvent (VOC free) and is environmentally friendly. It provides minimum shrinkage and good adhesion on paper and many plastic substrates. This ink is specially designed for excellent antenna impedance for UHF RFID antennas. It has been successfully tested and approved by a leading independent laboratory (Industrial Technology Research Institutes) with a read range up to 9 meters.

Applications: Printed Antenna, Printed Electronics, etc.

Typical Properties:

Appearance: Silver Paste

Electricity Properties after Cure:

@ 25 micron thickness (screen printing method)

Surface Resistivity: 0.025 $\Omega/\square$

Volume Resistivity: 0.000035 $\Omega \cdot \text{cm}$

Heat Aging Resistance (125C x 240 hours): No increase in resistivity

Recommended Printing Conditions: stainless steel screen 350-450 mesh web

Recommended Ink Thickness: 16-25 microns

Substrates: Paper, PET, Polyimide, PEN, PEI, etc. Corona or plasma treatment is recommended.

Recommended Curing Condition: Min. 800~1,000 mJ/cm² by two high-pressure mercury UV lamps, then Post-cure: 120-150C x 2 min.

Shelf Life and Storage Condition: min. 12 months from manufacturing date under Refrigeration (-10 to -20C), keep away from light. After 12 months, re-test before use.

Package Size: 0.25 kg/bottle, 0.5 kg/bottle

For more information, please contact:

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