Electrically conductive ink Ag 513 EI

Application: Ag 513 EI is a conductive ink especially designed to obtain the best performances on very low surface energy substrates as for example, but it is not limited to, untreated polyester films (untreated Mylar®).

BENEFITS

- Low firing temperature
- high adhesion on untreated polyester films
- Good conductivity
- Good flexibility
- Designed to give a good balance between long open time on screens and short drying time in subsequent drying processes

STANDARD TEST CONDITIONS

Printing: stainless steel screen 230 – 280 mesh, polyester screen 77 to 99 wires. A polyurethane squeegee with a shore A durometer between 70 and 80 is recommended.

Curing: 30' @ 150°C (best condition in static oven) or 5-10' @ 125°C (convection oven).

THINNING

Use thinner 0320IT to replace solvent. Higher percentage than 1% could affect resistivity.

Table 1. TYPICAL PROPERTIES

Viscosity

10 – 25 Pa*s   (pseudoplastic paste)

Fineness of grind

< 12 µm

Thickness

6 – 10 µm

Abrasion resistance (ASTM D3359)

5B

Resistivity

< 13 mΩ/□ @ 25 µm

Viscosity test:
Brookfield Viscometer *DV-II+* Pro; spindle 14, 10 r.p.m., 25.0±0.5°C.

SHELF LIFE

Min. 6 months when properly stored in tightly closed containers at room temperature (< 25°C).

CLEAN UP SOLVENT

Dibasic esters

DISCLAIMER

The data published in this document come from experiments carried out in our laboratories and performed in conditions believed to be the most commonly accepted by the industry. It is the end-user's responsibility to check whether this product can be efficiently used in his specific process and under his specific industrial conditions which Chimet can neither control nor foresee. Chimet makes no warranties expressed or implied arising from the product use. Chimet specifically disclaims any liability for consequential or incidental damages of any kinds, including lost profits.

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