

SILVER INK FOR ITO SUBSTRATES C2050712D58

GEM has a range of Heat Curable Inks designed specifically for use in Electro Luminescent systems. These products are based on a unique curing process that results in the low temperature formation of a thermosetting polymer. Inks containing these polymers combine excellent chemical, environmental and abrasion resistance with good flexibility and adhesion to ITO coated substrates.

USE

This Ink is in a ready to use form at a viscosity suitable for automatic or semiautomatic screen-printing. The ink should be gently stirred before use to ensure complete homogeneity.

PROPERTIES

Solids Content

55% ± 0.1% wt/wt

Viscosity Typical

6 – 10 Pa.sec
Using a Haake VT550 cone and plate viscometer with the PK1.1° at a shear rate of 50 sec⁻¹ at 25°C.

Coverage Typical

Using a 230 mesh stainless steel screen
200cm² per 1g

Cured Film Thickness

16 – 18 microns

Shelf Life

6 months (at 5°C maximum)
3 months (at 20°C maximum)

Resistivity Typical

< 55mohms/ sq / @ 25microns

APPLICATION METHOD

This product is supplied in a ready to use form at a suitable viscosity. Excellent flexibility and adhesion to ITO coated substrate, makes this ink ideal for use in Electro Luminescent systems.

Screen Printing

The ink is suitable for stainless steel or polyester screens with meshes from 180 to 340 counts per inch (70 to 140 counts per cm).

Drying Conditions

Heat curable Silver ink designed to cure oven or on a belt dryer. The cured film has excellent adhesion and flexibility on ITO coated substrates.

Curing Schedule

BELT DRYER 3 minutes at 130°C
BOX OVEN 10 minutes 130°C

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