

GEM has a Heat Curable Ink designed specifically for use on Polymeric Substrates. 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 a variety of substrates including polymer 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

Non-Volatile Content Typical

73.5% @ 130°C for 1 hour

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
177cm² per 1g

Cured Film Thickness Typical

15 - 18 microns

Shelf Life

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

APPLICATION METHOD

This product is supplied in a ready to use form at a suitable viscosity. Excellent flexibility and adhesion to a variety of substrates coupled with low cure temperature and excellent insulation properties makes this ink ideal for use as an insulation ink on polymer substrates.

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 Insulation ink designed to cure in an oven or on a belt dryer. The cured film has excellent adhesion and flexibility on a variety of substrates.

Cure Schedule

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

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