

## PRODUCT DESCRIPTION

Mateprincs SSAG001 is a Silver ink for screen printing. This ink has been developed for in mold and stretchable applications. It is suitable for printing on many different substrates.

## PRODUCT BENEFITS

- Excellent adhesion to plastic substrates and different fabrics
- Good compatibility with resistive and dielectric inks
- Stable over time

## PROCESSING

### Screen Printing equipment

- Manual
- Semi-automatic

### Screen type

- Monofilament polyester screen or stainless steel screen

### Recommended Screen type

- Monofilament polyester screen, threads/cm 61-130
- Emulsion 10-40  $\mu\text{m}$

### Recommended squeegee

- Polyurethane, shore: 60-75

### Curing conditions

- Static Box oven: 130°C, 20-30 min
- Belt furnace: 130°C, 2-3 min

### Clean-up

To clean screen and equipment use a general product for screen cleaning and finish with ethanol

## INK PROPERTIES

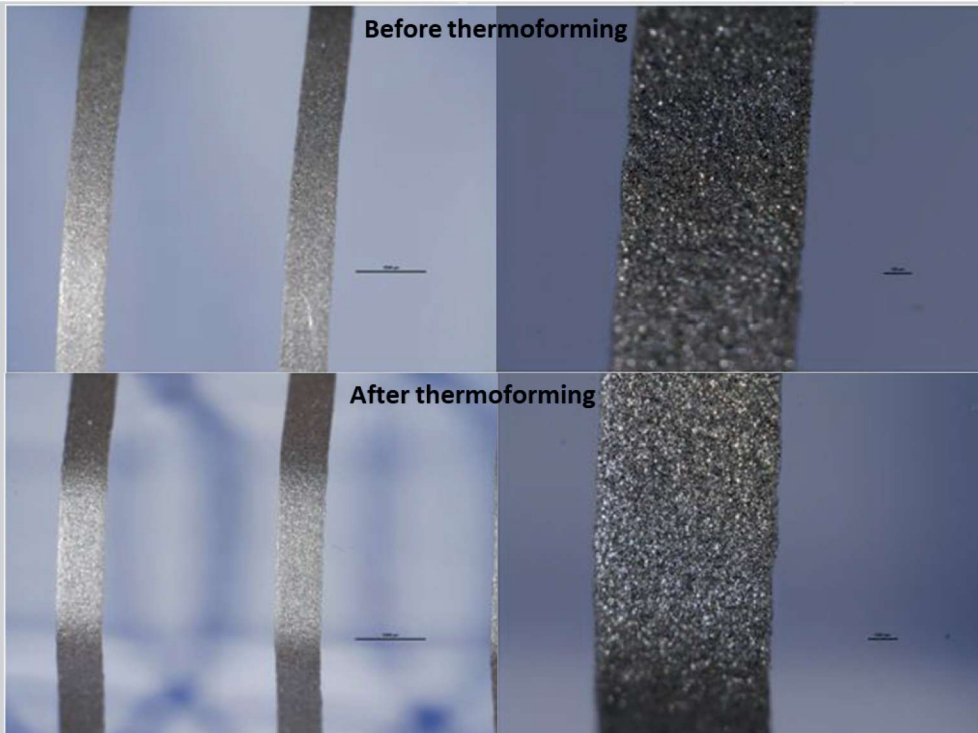
### Typical properties of uncured ink

Solids Content, %	60-70
Density, g/cm <sup>3</sup>	3.2
Viscosity, cPs, (Brookfield, 30 rpm)	17,000

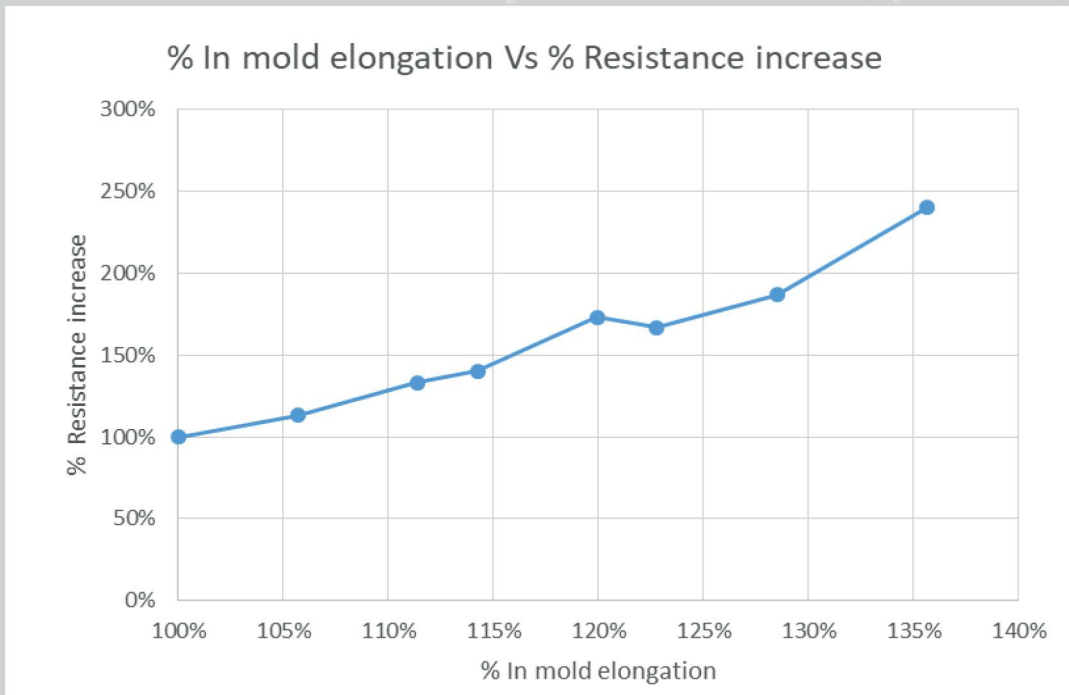
### Typical properties of cured ink

Adhesion, UNE EN ISO 2409	0-1
Sheet resistance, $\Omega/\text{sq}@25\mu\text{m}$	< 0.05
Abrasion resistance, UNE EN ISO 151884 (Pencil Hardness, Scratch)	HB
% increase resistance, 10% elongation	less than 40%
% increase resistance, Bending 180°, 5 minutes, 2 kg	less than 20%

Test performed on spunbond polyethylene fibers and 80% Polypropylene (PP) and 20% Polyester (PES)



Printed tracks before and after thermoforming (135 % deformation) No cracks appear



In mold performance using PET-glycol as substrate

## DISCLAIMER

All the information provided in the technical data sheet including the eventual recommendations for use and the applicability of the product are based on our test results carried out by our technical team and we believe them to be accurate and reliable. We cannot make any warranty or representation express or implied, now or hereafter, as to the marketability, merchantability or fitness for use or for a particular purpose of any of the products. Furthermore we cannot assume any responsibility from any third party use, studies or applications as we have no control over their methods. In any case, and in the event that we would have to legally assume any responsibility related to our products, such responsibility will be limited to the amount paid by the client for the products.