

Technical information

Screen Inks



Micro Plast - GL

Quick Drying, Glossy Finish, Opaque

Screen Inks for Graphics



Substrates:

Flexible and rigid PVC, Polystyrene, HIPS, ABS, Polycarbonate, Acrylic, Cellulose acetate

Application

Micro PLAST-GL glossy finish inks are based on a special resin system which provides excellent fade and weather resistance for outdoor application on rigid and flexible plastics. Added to this, these inks offer many other features to make the range suitable for a variety of applications as mentioned below:

- Outdoor display advertising panels and internally illuminated signs due to excellent fade and weather resistance
- Molded articles and gift novelties
- Window graphics, instrument panels
- Labels and self adhesive stickers
- Baby feeding bottles of polycarbonate
- Shoe uppers

Characteristics

- Excellent light fastness property due to specialized fade resistance pigments used (Blue wool scale 7-8)
- Non-toxic, meets EN- 71 part 3 Toy safety standard for heavy metals*
- Excellent flexibility, adhesion, weather resistance, alcohol and petrol resistance
- Quick drying - suitable for rapid production
- Excellent screen stability - ideal for 4-colour process inks job
- Thixotropic in nature - does not drip through mesh when the machine is standstill

Drying

The print becomes surface dry in 5 to 8 minutes and hard dry in 30 to 45 minutes at a temperature of 25°C making them suitable for stacking

It takes about 1 to 2 minutes to become tack-free dry when passed through a tunnel oven at 50 to 70° C

Range

Micro PLAST -GL Matching System : Almost any shade can be matched by mixing the selective inks of the matching system which comprises of the basic shades as follows:

Match Light Yellow	GL -101	Match Violet	GL -141
Match Mid Yellow	GL -102	Match Ultra Blue	GL -151
Match Deep Orange	GL -111	Match Deep Blue	GL -152
Match Scarlet Red	GL -121	Match Green	GL -161
Match Carmine Red	GL -122	Match Tinting White	GL -171
Match Magenta	GL -131	Match Tinting Black	GL -181
Mixing Clear Base	GL -191	Mixing Extender Base	GL -192

Spot Colours

Bright Yellow	GL - 201	Sky Blue	GL - 251
Light Yellow	GL - 301	Royal Blue	GL - 252
Mid Yellow	GL - 302	Reflex Blue	GL - 253
Light Orange	GL - 211	Yellow Green	GL - 261
Deep Orange	GL - 311	Grass Green	GL - 262
Vermilion	GL - 221	Forest Green	GL - 263
Scarlet	GL - 322	Opaque White	GL - 271
Brilliant Red	GL - 223	Brilliant White	GL - 272
Purple	GL - 241	Dense Black	GL - 281

*Note :GL-301, GL-302, GL-311, GL-322 are Lead containing inks which do not comply with EN-71.3

Process Colours :

Cyan	GL - 401	Density : 1.5
Magenta	GL - 402	Density : 1.4
Yellow	GL - 403	Density : 1.3
Black	GL - 404	Density : 1.8

The density values are arrived at by using 140-34T mesh at a dilution of 10% with Reducer. By adding Extender Base GL-192, the ink density can be reduced. The ink density can be increased by adding ink concentrates for the process colours in required proportion or by using a coarser mesh.

A coat of Over Print Varnish GL-193 on the whole printed area will extend the period of out-door fade resistance

Metallic Inks (Bronzes) :

Rich Gold	SH - 801
Rich Pale Gold	SH - 802
Silver	SH - 804
Sparkling Rich Gold	SH - 841
Sparkling Rich Pale Gold	SH - 842
Sparkling Silver	SH - 844
Metallic Clear Base	GL - 191

Mixing ratio of Metallic Pigment with Metallic Clear Base 1: 10 to 1:5

The metallic ink made by mixing the metallic pigment with Metallic Clear Base should be processed within 6-8 hours

Yield : 65-75 sq meters. (with 120.34 mesh/cm. and 10-15 % dilution with Reducer / Retarder)

SCREEN ATM:

Any Quantity

Any Colour

Any Substrate

Any Time

Micro Inks revolutionises screen inks with its Screen Inks ATM (Any Time Matching). Get your screen inks in 15 minutes flat.

Micro Inks Limited offers INSTANT COLOUR MANAGEMENT SOLUTION to commercial printers, packaging companies and distributors by introducing Computerized Colour Matching Software.

Contact us for detail information on Technology, Infrastructure and Equipments.

Auxiliaries :

Reducer : AX-901 can be added 10 to 20 % to the ink to get desired consistency

Retarder : AX-902 can be added 10 to 20 % to the ink to get desired consistency when required to make the ink slow drying. Even a suitable combination of the Retarder with the Reducer can be used to get desired retarding effect

Quick Dry Reducer : AX -903 can be used instead of AX - 901 for very high speed printing job

Over Print Varnish GL -193 : For improvement of fade resistance of the print

Accessories :

Fabric : Polyester or Nylon mesh of 100-140T are suitable. Even 77-90T can be used depending upon the type of job and the substrate to be printed to achieve desired opacity or print effect

Stencil : All solvent resistant stencils can be used

Squeeze : Generally 65-75 durometer sharp edge squeezes are suitable

Material Safety Data Sheet is available on request

Note : The Technical information sheet reflects the current state of our knowledge. This information is compiled based upon field experience and extensive laboratory testing. However, customers are requested to satisfy themselves that the products meet their requirements in all respects before starting a print run. Since the printing conditions are not under our control, no guarantee can be given for their performance.

