

# Technical Information

Screen Inks | Graphics Printing



## CRYLO MT

Solvent base matt finish, fast drying ink for outdoor application

### Substrates

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

### Application

CRYLO MT 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 & internally illuminated signs due to excellent fade & weather resistance
- Molded articles & 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 safety standards 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 standing still

### Drying

The print becomes surface dry in 5 to 8 min. and hard dry in 30 to 45 min. at a temperature of 25° C making them suitable for stacking. It takes about 1 - 2 min. to become tack-free dry when passed through a tunnel oven at 50 to 70° C

### Range

CRYLO MT 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	MT - 101	Match Violet	MT - 141
Match Mid Yellow	MT - 102	Match Ultra Blue	MT - 151
Match Deep Orange	MT - 111	Match Deep Blue	MT - 152
Match Scarlet Red	MT - 121	Match Green	MT - 161
Match Carmine Red	MT - 122	Match Tinting White	MT - 171
Match Magenta	MT - 131	Match Tinting Black	MT - 181
CRYLO MT TRANS INK	CR - 191VI		

## Spot Colours

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

## Process Colours

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

The density values are arrived at by using 140.34T mesh at a dilution of 10 % with Reducer. By adding Trans ink MT - 191TI or CR - 191TI 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 with **MT - 193VI** on the whole printed area will extend the period of out-door fade resistance.

## Metallic Inks

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
CRYLO GL TRANS INK	CR - 191VI

Mixing ratio of Metallic Pigment with Crylo MT Trans Ink 15:80 or 20:80.

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

## Yield

65 - 75 sq. meters. ( with 120.34 mesh/cm. and 10 - 15 % dilution with Rheology Improver

## Auxiliaries

Ink Rheology Improver - SRIGL - 901 can be added 10 to 20 % to the ink to get a desired consistency.

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

Quick Dry rheology improver SRIGL - 903 can be used instead of SRIGL - 901 for very high speed printing jobs.

## GL - 193VI CRYLO MT TRANS INK

For improvement of fade resistance of the print.

## Accessories

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

**Stencils** - All solvent resistant stencils can be used.

**Squeegee** - Generally, 65 - 75 durometer sharp edge squeezes are suitable.

**Please note** - Material Safety Data Sheet is available on request.

## Shelf Life

At least 12 months when stored under the correct condition  
(Protected against heat and light at 30°C)

**Note** - 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.