

## TEXTOPLAST TPL

High Opaque, Intense Colours

### Phthalate Free Plastisol Inks

Plastisol Inks for direct printing and heat transfer printing on Cotton, Polyester, Cotton Polyester Blends and Linen fabrics

### Application

TEXTOPLAST TPL is the range of plastisol inks with high colour strength and opacity designed to print on garments of Cotton, Polyester, Cotton Polyester Blends and Linen fabrics

### Characteristics

- Excellent crack resistance and wash fastness
- Brilliant & high opaque colours suitable for light as well as dark colour garments
- Lead free, phthalate free – suitable for children's garments
- Suitable for direct and cold - peel transfer printing
- Soft hand finish

### Printing Conditions

**Screen mesh** – recommended 40 to 300 mesh/inch (18 to 120 mesh/cm) or finer mesh depending on the type of job. For heat transfers, 90 to 150 mesh/inch (35 to 60 mesh/cm) gives the best result

**Squeegee** – soft or medium hard polyurethane squeeze

**Stencil** – all solvent resistant stencil emulsions and stencil films are suitable

### Curing Procedure

TEXTPOPLAST TPL inks can be cured at 145 - 155C for 2 to 3 minutes to achieve full wash fastness

Alternatively, the prints can be dried at 120 - 125C for 8 - 12 seconds and the dried prints are to be fused/cured with transfer paper under desired pressure at 180 - 190C for 10 - 15 seconds

Flash curing - The curing time required for flash curing depends upon the type and wavelength of the source and its distance from the print. The curing time also depends upon other factors such as fabric, ink colour, thickness of the ink film and the area of the print, etc

### Range

TEXTOPLAST TPL 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	TPL - 101	Match Violet	TPL - 141
Match Mid Yellow	TPL - 102	Match Ultra Blue	TPL - 151
Match Deep Orange	TPL - 111	Match Deep Blue	TPL - 152
Match Scarlet Red	TPL - 121	Match Green	TPL - 161
Match Carmine Red	TPL - 122	Match Tinting White	TPL - 171
Match Magenta	TPL - 131	Match Tinting Black	TPL - 181
Mixing Clear Base	TPL - 191	Mixing Extender Base	TPL - 182

## Spot Colours

Bright Yellow	TPL - 201	Decon Blue	TPL - 254
Light Orange	TPL - 211	Navy Blue	TPL - 255
Vermilion	TPL - 221	Turquoise Blue	TPL - 257
Brilliant Red	TPL - 223	Aqua	TPL - 258
Rhodamine Red	TPL - 226	Yellow Green	TPL - 261
Purple	TPL - 241	Grass Green	TPL - 262
Russel Purple	TPL - 242	Forest Green	TPL - 263
Sky Blue	TPL - 251	Opaque White	TPL - 271
Royal Blue	TPL - 252	Brilliant White	TPL - 272
Reflex Blue	TPL - 253	Dense Black	TPL - 281

## Tint Shades

Buff	TPL - 2001	Chocolate Brown	TPL - 2006
Flesh	TPL - 2002	Maroon	TPL - 2007
Khaki	TPL - 2003	Pista Green	TPL - 2008
Old Gold	TPL - 2004	Steel Grey	TPL - 2009
Light Brown	TPL - 2005	Silver Grey	TPL - 2010

## Process Colours

Cyan	TPL - 401
Magenta	TPL - 402
Yellow	TPL - 403
Black	TPL - 404

By adding Clear Base TPL - 191, 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

### Fluorescent Shades (Speciality Inks)

Lemon Yellow	TPL - 501
Golden Yellow	TPL - 502
Orange	TPL - 511
Red	TPL - 521
Magenta	TPL - 531
Green	TPL - 561
Glow-in-the-dark	TPL - 581

### Shimmers & Glitters (Speciality Inks)

Rich Gold Glitter	SH - 851
Rich Pale Gold Glitter	SH - 852
Silver Sparkle	SH - 854
Rich Gold Shimmer	SH - 861
Rich Pale Gold Shimmer	SH - 862
Silver Shimmer	SH - 854
Metallic Binder	TPL - 195

### Transfer products

Palate Release Adhesive	TPL - 194
Printable Adhesive	TPL - 196TI
High Density Clear	TPL - 197
Puff Aid	TPL - 198
Puff Base	TPL - 199
Litho Back White	TPL - 276
FF Adhesive	TPL - 1004
Transfer Aid	TPL - 1005
Litho Back Up White	TPL - 1006

## Auxiliaries

Curable Reducer - TEXTOPLAST inks are available with ready to print consistency. If necessary, Curable Reducer TPL - 901 can be added 2 to 3 % to the ink to reduce the viscosity. Always stir well the ink to break down false body and to ascertain the actual viscosity prior to adding reducer.

Curable Thickener TPL - 904 - Can be added up to 5 to 6% to increase the viscosity of the ink.

Soft-hand Additive TPL - 921- can be added 20-30 % to enhance the softness of the print.

Over Print Gloss Varnish TPL - 193 - For enhancing the gloss of the print.

## Note

- It must be ensured that the entire thickness of the ink film is given enough time to reach the cure temperature to achieve the desired resistance properties
- The cure schedule must be evaluated by testing the print for the desired wash schedule
- Users should satisfy themselves for the compatibility of TEXTOPLAST TPL inks with specific fabrics and the desired resistance properties before commencing production run
- Users should always test for curing, adhesion, cracking, wash ability and other requirements before commencing production run
- Prints may be ironed from the back of the fabric at a cool setting, with a cloth over the printed area. Prints will not resist dry-cleaning and garments should be marked to this effect
- Due to variation in the substrates and the ink film-thickness, slight colour variation from the actual ink shade is unavoidable

**Note** - Material Safety Data Sheet is available on request

**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.