

Technical information

Screen Inks



Micro TEX - TPL

High Opacity, Intense Colours

Screen Inks for Textiles



Substrates ::

Plastisol inks for cotton, Cotton blends, linen

Application

Micro TEX -TPL is the range of plastisol inks with high colour strength and opacity designed to print on garments of cotton, cotton blends and linen

Characteristics

- Excellent crock resistance and wash fastness
- Brilliant colours with extra opacity - 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
- Squeeze - soft or medium hard polyurethane squeeze. For heat transfer, 90 to 150 mesh/inch (35 to 60 mesh/cm) gives the best result
- Stencil - all solvent resistant stencil materials and stencil films are suitable

Curing Procedure

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

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

Micro TEX-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 - 192 |

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 - 252 | Dense Black | TPL - 281 |

Tint Shades :

| | |
|-------------|------------|
| Buff | TPL - 2001 |
| Flesh | TPL - 2002 |
| Khaki | TPL - 2003 |
| Old Gold | TPL - 2004 |
| Light Brown | TPL - 2005 |

| | |
|-----------------|------------|
| Chocolate Brown | TPL - 2006 |
| Maroon | TPL - 2007 |
| Pista Green | TPL - 2008 |
| Steel Grey | TPL - 2009 |
| Silver Grey | TPL - 2010 |

Process Colours :

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

By adding Extender Base TPL - 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

Speciality Inks :

Fluorescent Shades :

| | |
|---------------|-----------|
| 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 |
| HIGH DENSITY CLEAR | TPL - 197 |
| PUFF ADDITIVE | TPL - 198 |
| PUFF BASE | TPL - 199 |

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 |
| Metallic Clear Base | TPL - 195 |

| | |
|----------------------------|----------------|
| TRANSFER ADHESIVE | TPL-196 |
| BACK-UP LITHO WHITE | TPL-276 |

Technical Information on Speciality Inks can be made available on request.

TEXTILE ATM:

Any Quantity, Any Colour, Any Substrate, Any Time

Micro Inks revolutionises garment inks with Textile Inks ATM (Any Time Matching). Get your screen inks in 15 minutes flat. Micro Inks offers INSTANT COLOUR MANAGEMENT SOLUTION to garment printers & manufacturing companies and distributors by introducing Computerized Colour Matching Software.

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

Auxiliaries

TPL Reducer : Micro TEX - TPL 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 ink to breakdown false body and to ascertain the actual viscosity prior to adding reducer

TPL Gel Tack Reducer TPL - 904 : Can be added up to 5% 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

Important 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 Micro TEX - TPL inks with specific fabrics and the desired resistance properties before commencing production run
- Users should always test for curing, adhesion, crocking, wash-ability and other requirements before commencing production run
- Prints may be ironed from the back of the fabric at 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

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.

