

Technical Information

Screen Inks | Textile Printing



TEXTOPLAST TNP

Plastisol Inks for Cotton, Polyester, Cotton Polyester Blends, Linen, etc

Application

Plastisol inks with high colour strength and opacity designed to print on garments of cotton, cotton blends and linen

Characteristics

- Excellent crack resistance and wash fastness
- Brilliant & high opaque colours suitable for light as well as dark garments
- PVC & Phthalate Base ink
- 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 materials and stencil films are suitable

Curing Procedure

Plastisol inks can be cured at 150 - 160°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

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

Spot Colours

CODE	DESCRIPTION
TNP - 101	PLASTISOL TNP Light Yellow
TNP - 101R	PLASTISOL Yellow
TNP - 102	PLASTISOL TNP MID YELLOW
TNP - 111	PLASTISOL TNP Deep Orange
TNP - 121	PLASTISOL TNP Scarlet Red
TNP - 122	PLASTISOL TNP Carmine Red
TNP - 122R	PLASTISOL Carmine Red
TNP - 131	PLASTISOL TNP Magenta
TNP - 141	PLASTISOL TNP Violet
TNP - 141R	PLASTISOL Violet
TNP - 151	PLASTISOL TNP Ultra Blue
TNP - 152	PLASTISOL TNP Deep Blue
TNP - 152R	PLASTISOL RS Blue
TNP - 153R	PLASTISOL GS Blue
TNP - 161	PLASTISOL TNP Green
TNP - 161R	PLASTISOL Green
TNP - 171	PLASTISOL Mixing White
TNP - 171R	PLASTISOL Opaq White
TNP - 181	PLASTISOL TNP Tinting Black
TNP - 181R	PLASTISOL TNP Black
TNP - 191	PLASTISOL TNP Trans Ink
TNP - 192	PLASTISOL TNP Trans White
TNP - 193	PLASTISOL OVER PRINT Trans Ink
TNP - 194	PLASTISOL PALLATE Release Ink
TNP - 195	PLASTISOL TNP Metallic Tr. Ink
TNP - 197	PLASTISOL TNP HI Density Tr. Ink
TNP - 199	PLASTISOL TNP Puff Tr. Ink
TNP - 2011	PLASTISOL LN Yellow
TNP - 2012	PLASTISOL GN Yellow
TNP - 2014	PLASTISOL TNP Bright White
TNP - 2016	PLASTISOL Mixing Trans Ink
TNP - 2017	PLASTISOL Mixing White
TNP - 2018	PLASTISOL TNP Super White
TNP - 2019	PLASTISOL TNP Lemon Yellow

TNP - 2020	PLASTISOL TNP Golden Yellow
TNP - 2021	PLASTISOL TNP Bright Orange
TNP - 2022	PLASTISOL TNP National Red
TNP - 2023	PLASTISOL TNP True Blue
TNP - 2024	PLASTISOL TNP Navy Blue
TNP - 2025	PLASTISOL TNP Black
TNP - 2026	PLASTISOL TNP Violet
TNP - 2027	PLASTISOL TNP Kelly Green
TNP - 2028	PLASTISOL TNP Light Brown
TNP - 2029	PLASTISOL TNP Proc Magenta
TNP - 2030	PLASTISOL TNP Opaq White
TNP - 2031	PLASTISOL Vodafone Red
TNP - 2032	PLASTISOL TNP Process Cyan
TNP - 2033	PLASTISOLTNP Process Magenta
TNP - 2034	PLASTISOL TNP Process Yellow
TNP - 2035	PLASTISOL Process Black
TNP - 2036	PLASTISOL Opaque White
TNP - 2037	PLASTISOL Opaque White
TNP - 2038	PLASTISOL ECO Trans White
TNP - 2039	PLASTISOL Bright White
TNP - 2040	PLASTISOL Bright White
TNP - 2041	PLASTISOL TNP Supreme White
TNP - 2042	PLASTISOL Opaque White
TNP - 2043	PLASTISOL TNP Cardinal Red
TNP - 2044	PLASTISOL TNP BR Royal Blue
TNP - 2045	PLASTISOL TNP DK Navy Blue
TNP - 2046	PLASTISOL Untone White
TNP - 2125	PLASTISOL Opaque White
TNP - 271	PLASTISOL TNP Opaque White
TNP - 272	PLASTISOL TNP BR White
TNP - 281	PLASTISOL DENSE Black
TNP - 401	PLASTISOL TNP Process Cyan
TNP - 402	PLASTISOL TNP Process Magenta
TNP - 403	PLASTISOL TNP Process Yellow

TNP - 404	PLASTISOL TNP Process Black
TNP - 501	PLASTISOL TNP Fluo Ln Yellow
TNP - 502	PLASTISOL TNP Fluo Gn Yellow
TNP - 511	PLASTISOL TNP Fluo Orange
TNP - 521	PLASTISOL TNP Fluo Red
TNP - 531	PLASTISOL TNP Fluo Magenta
TNP - 561	PLASTISOL TNP Fluo Green

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 - TNP inks with specific fabrics and the desired resistance properties before commencing production run
- Users should always test for curing, adhesion, crocking, washability and other requirements before commencing production run

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