Rutland Plastic Technologies, Inc.

Rutland™

Claira™ NPT Non-Phthalate Specialty Ink

ES0280 NPT Super Gel

Technical Data Sheet #330	
Wet Ink Tack	Low
After Flash Tack	Medium
Printability	Great after stirred
Surface Appearance	High Gloss
Opacity/Viscosity	Low/High
Bleed Resistance	N/A
Gel Point/Flash Time	160°F (71° C.)/decreases with deposit thickness
Cure Temperature	320°F (160°C)
Squeegee Hardness	Soft
Squeegee Blade	Sharp
Squeegee Angle	45°
Squeegee Speed	Medium
Underlay	Depending on the fabric
Emulsion	Capillary Film up to 400 microns
Mesh Count	86—110 mc in (34—43 mc cm)
Extender	N/A
Thinner	N/A
Thickener	N/A
Storage	65°F to 95°F (18° C to 33° C) Avoid direct sun
Cleanup	Bio-degradable screen wash
MSDS	# ES0280
Color Range	ES0280 NPT Super Gel Clear
Substrate Type	Cotton or underlay
Substrate Color(s)	Light, Medium, & Dark fabrics

Description

ES0280 NPT Super Gel is formulated as a press-ready plastisol for printing on 100% Cotton fabrics or over a low bleed underlay on poly/cotton. This product has excellent edge definition when stacked for that 3D look and provides maximum gloss when fully cured.

Features

- Fast shearing action means higher press speeds.
- Can be tinted with up to 30% C3 NPT Color Concentrates to make Gel Colors.
- High gloss and clarity when printed in thick film and cured properly.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

Application

ES0280 requires stirring before printing. The thick body gel mixes down easy to a smooth printing ink. Print ES0280 directly onto substrates or over an underlay. ES0280 is normally printed through mesh ranges from 86—110 mc in (34—43 mc cm) You may print through finer mesh to achieve fine details with less height. Recommend 60 Durometer squeegee and thick film emulsion for superior edge definition when stacking. For higher gloss, cure at slightly higher temperature for longer times.

Special Recommendations

- **Do not dry clean, bleach, or iron the printed image.**
- **Note: This is not a low bleed ink. Do not print on polyester fabrics.**

Claira Colors™, bases, modifiers and additives should be mixed in clean vessels using clean mixer blades and utensils. Any contamination from other ink sources or non approved additives could make Claira Colors™ test positive for the restricted phthalates.

Rutland Plastic Technologies does not knowingly add plasticizers containing the phthalates listed and outlined in California Bill 1108, CPSC HR-4040 and Oeko-tex Standard 100. The plasticizers identified may include di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DnOP), (DIBP) Di-iso-butyl, and (DMP) Dimethylphthalate, including esters of ortho-phthalic acid and are not direct ingredients in the manufacture of Claira™ High Opacity Non-Phthalate Mixing System Inks and Claira™ Non-Phthalate Concentrate Mixing System Inks. Rutland Plastic Technologies does not test the final product for amounts of the aforementioned phthalate plasticizers and esters and encourages all users to conduct testing for their intended use.

ANY APPLICATION NOT REFERENCED IN THIS TECHNICAL DATA SHOULD BE PRE-TESTED OR CONSULTATION SOUGHT WITH RUTLAND'S APPLICATIONS LABORATORY PRIOR TO PRINTING. CALL 704-553-0046 EXT. 192 FOR MORE INFORMATION.

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