

Technical Data Sheet #329

07/21/2009

Wet Ink Tack	low tack
After Flash Tack	N/A
Printability	Excellent, for fast production
Surface Appearance	Metallic sparkles
Opacity/Viscosity	Low / Medium
Bleed Resistance	N/A
Gel Point/ Fusion Temperature	160°F (71° C.)/ 320°F (160° C.)
Squeegee Hardness	70-80 durometer
Squeegee Blade	Sharp
Squeegee Angle	45° to mesh screen
Squeegee Speed	Maximum
White Underlay	N/A
Low Bleed Underlay	N/A
Flood Stroke/ Print Stroke	Load ink into mesh opening/ Max. speed, light pressure
Emulsion	Direct, Indirect, Capillary film
Mesh Count	40T mc in (16 mc cm)
Screen Tension	As recommended for mesh
Extender	Not recommended
Thinner	N/A
Thickener	N/A
Storage	65°F to 95°F (18° C to 35° C) Avoid direct sun
Cleanup	Bio-degradable screen wash
MSDS	# 38
Color Range	ES0008 NPT Crystalina (others with EB NPT Color Concentrates added)
Substrate Type	100% Cotton
Substrate Color (s)	Light and Dark fabrics

Claira™ NPT Non-Phthalate Specialty Inks

ES0008 NPT Crystalina

Description

ES0008 NPT Crystalina is a press-ready sparkle plastisol used for creating specialty effects when screen printing on textiles.

Features

- Brilliant metallic sparkle ink.
- Creamy, short body plastisol for easy printing
- Low tack formulation for fast shearing action.
- User friendly, no viscosity modifications necessary.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

Application

Print NPT Crystalina through a 40T mc in (16 mc cm) mesh screen as a sparkle, or create colored sparkle by shading with single pigment primaries from the M3 or C3 color matching systems. Create different shades using (2% by weight) C3 Color Boosters. May be printed over puff white as a top coat or over white underlays when printing on dark fabric. NPT Crystalina may also be applied as a cold peel transfer. When using as a transfer, print through a 40T mc in (16 mc cm) mesh, gel at 200°F (94° C.) and transfer at 350°F (177° C.) to 375°F (191° C.) for 8 to 10 seconds. Peel cold. Refer to technical literature provided by paper manufacturers regarding the correct papers to use for cold peel and specialty products.

Caution: Avoid over printing colors formulated with the 4449 yellow used in Rutland mixing systems as some color migration could result.

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.

