Claira™ NPT Non-Phthalate Specialty

ES NPT Jewel Tone

Technical Data Sheet #313 07/16/2009	
Wet Ink Tack	Low
After Flash Tack	Medium
Printability	Great
Surface Appearance	High Luster
Opacity/Viscosity	High / Medium
Bleed Resistance	N/A
Gel Point/Flash Time	160°F (71°C)/ decreases with deposit thickness
Fusion Temperature	320°F (160°C.)
Squeegee Hardness	Medium
Squeegee Blade	Sharp
Squeegee Angle	45°
Squeegee Speed	Medium to High
Underlay	N/A
Emulsion	Direct Emulsions or capillary film
Mesh Count	86—110 mc in (34—43 mc cm).
Extender	N/A
Thickener	N/A
Storage	65°F to 95°F. Avoid direct sun.
Cleanup	Biodegradable screen wash
MSDS	#38
Color Range	ES0050 NPT Silver JT ES4060 NPT 24K Gold JT
Substrate Type	Cotton or 50/50 Poly
Substrate Color(s)	Light, Medium, & Dark fabrics

Description

ES NPT Jewel Tone is formulated as a press-ready plastisol for printing on 100% Cotton or poly/cotton. The NPT Jewel Tone Silver can be colored to produce an array of metallic colors.

Features:

- Short body and very low wet tack for easy printing.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.
- No viscosity modifications necessary.
- Can be tinted with up to 5 % C3 Color Boosters to make metallic Colors.
- Extreme high luster when printed.

Application

NPT Jewel Tone requires stirring before printing. Print directly onto substrates. NPT Jewel Tone is normally printed through mesh ranges from 86—110 mc in (34—43 mc cm). Recommend a medium Durometer squeegee for maximum coverage. Print with heavy pressure, allowing the base to penetrate the fibers for the most brilliant prints. NPT Jewel Tone will not tarnish. For maximum durability and washfastness, insure a full cure of 320°F (160°C.). Metallic inks require longer dwell times than standard inks to achieve a proper cure.

Special Recommendations

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.

- **Do not dry clean, bleach, or iron the printed image.**

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.