

Technical Data Sheet #316

Revised 10/01/2012

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 mc in (34mc cm).
Extender	N/A
Thickener	N/A
Storage	65°F to 95°F. Avoid direct sun.
Cleanup	Biodegradable screen wash
MSDS	#38
Color Range	See Products
Substrate Type	Cotton or 50/50 Poly
Substrate Color(s)	Light, Medium, & Dark fabrics

Claira™ NPT Non-Phthalate Specialty Inks

ES NPT Metallic Ink

Description

ES NPT Metallics are formulated as a press-ready plastisol for printing on 100% Cotton or poly/cotton.

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 20% Color Boosters to subdued make metallic Colors.
- Extreme high luster.

Application

NPT Metallic inks requires stirring before printing. Print directly onto substrates. NPT Metallic inks are normally printed through 86 mc in (34 mc cm). Recommend a medium Durometer squeegee for maximum coverage. **NPT Metallics may tarnish and dull starting with the first wash.** For maximum brilliance insure a full cure of 320°F (160°C.) and wash with garment turned inside out. Your testing should include a wash test prior to running production runs with NPT Metallic Inks to make sure the results meet your specifications.

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.

Products:

ES0781 NPT Silver
ES4871 NPT Gold
ES4779 NPT Gold
ES7876 NPT Copper

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.

