

## Technical Data Sheet #314

1/28/2010

<b>Wet Ink Tack</b>	Low
<b>After Flash Tack</b>	Low
<b>Printability</b>	Excellent
<b>Surface Appearance</b>	Matte
<b>Opacity/Viscosity</b>	High /Medium
<b>Bleed Resistance</b>	N/A
<b>Gel Point/Flash Time</b>	160°F (71C.) decreases with deposit thickness
<b>Fusion Temperature</b>	320°F (160°C.)
<b>Squeegee Hardness</b>	Medium
<b>Squeegee Blade</b>	Sharp
<b>Squeegee Angle</b>	45°
<b>Squeegee Speed</b>	Fast
<b>Underlay</b>	Not required on 100% Cotton
<b>Emulsion</b>	Direct or Indirect
<b>Mesh Count</b>	86-200 mc in (34-77 mc cm)
<b>Thinner</b>	N/A
<b>Thickener</b>	
<b>Storage</b>	65°F to 95°F(18°C to 35°C) . Avoid direct sun.
<b>Cleanup</b>	Bio-degradable screen wash
<b>MSDS</b>	#38
<b>Color Range</b>	See Products
<b>Substrate Type</b>	Cotton
<b>Substrate Color(s)</b>	Light, Medium, & Dark fabric

## Claira™ NPT Non-Phthalate Specialty Inks

### ES NPT Soft Density Inks

#### Description

**ES0247 NPT Soft Density Base** can be printed through a wide range of mesh counts and thick film emulsions. Soft Density's very short body and mid range viscosity mark it easy to mix, easy to print and easy to create very soft High Density type designs. Extremely precise edge definition is possible, making NPT Soft Density a good choice to reproduce prints that look like they have been die cut.

#### Features

- Easy to mix and print
- Create thousands of shades by using Color Booster formulas from the M2007 Software (use C3's at no more than 40%).
- Prints through a variety of mesh counts.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.
- Extremely soft with less hand than most High Density inks.
- Print very thick, die cut type designs.

#### Application

Print through screen mesh from 86-200 mc in (34-77 mc cm) NPT Soft Density Base will have excellent wash and wear qualities when cured at 320°F (160°C) .

#### 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:

ES0247 NPT Soft Density Base  
ES8394 NPT Soft Density Black  
ES9256 NPT Soft Density White

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.

