



## Technical Data Sheet #325

Revised 04/112014

<b>Wet Ink Tack</b>	Low
<b>After Flash Tack</b>	Low
<b>Printability</b>	Great
<b>Surface Appearance</b>	Satin
<b>Opacity/Viscosity</b>	High/High
<b>Bleed Resistance</b>	Good
<b>Gel Point/Flash Time</b>	160°F (71°C.)
<b>Fusion Temperature</b>	320°F (160°C.)
<b>Squeegee Hardness</b>	Medium/Hard
<b>Squeegee Blade</b>	Sharp
<b>Squeegee Angle</b>	45°
<b>Squeegee Speed</b>	Medium to High
<b>Underlay</b>	EL9746 Super Poly White or EL9074 NPT LB White
<b>Emulsion</b>	Capillary Film or Direct emulsion
<b>Mesh Count</b>	86—200 mc.in. (34—78 mc. CM.)
<b>Extender</b>	N/A
<b>Thickener</b>	M00010 or M00004
<b>Storage</b>	65°F to 95°F (18° C to 33° 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>	Polyester/Cotton Blends
<b>Substrate Colors)</b>	Light, Medium, & dark fabrics over an NPT underlay.

## Claira™ NPT Non-Phthalate Low Bleed Ink

### EL NPT HO LB RFU Series

#### Description

EL HO LB RFU inks are formulated as a press-ready plastisol for printing on polyester and polyester/cotton blends. They will provide good bleed resistance and brilliant colors when printed in the lower mesh range and used over a LB White underlay. We suggest using EL9746 NPT Super Poly White for Polyester fabrics and EL9074 NPT LB White for poly/cotton blends.

#### Features:

- Creamy and very low wet tack for easy printing.
- Ready for use, just stir and print.
- Great for hand presses or automatic printing machines.
- Easy to use, maintains print viscosity without thinning during print run.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.
- Formulated to be opaque for direct printing on both lights or darks.
- Competitive with lower opacity products currently sold in the print market.

#### Application

Print NPT HO LB inks onto polyester or polyester/cotton blends over an NPT underlay white for brilliant colors. Caution! Extremely bad bleeding polyester may require an under base of EL9746 Super Poly White or ES0266 Barrier Base for maximum bleed blocking. EL NPT HO LB ink is normally printed through mesh ranges from 86—200 mc.in. (34—78 mc. CM.) Recommend 70-80 Durometer squeegee with sharp edge for maximum definition. Proper cure is achieved when garment reaches 320°F (160°C.).

**EL NPT RFU INKS ARE NOT DESIGNED FOR WET ON WET PRINTING. YOU SHOULD FLASH BETWEEN EACH COLOR.**

NOTE: Poorly dyed polyester or too much heat in the curing process can overcome any low bleed inks ability to block the migration. For severe migration use ES0266 Barrier Base as an underlay.

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

EL0730	NPT LB GREY	EL4500	NPT LB VEGAS GOLD
EL1212	NPT LB TEAM VIOLET	EL4611	NPT LB BRT YELLOW
EL1570	NPT LB PURPLE	EL4769	NPT LB BRT GOLD
EL2402	NPT LB LT NAVY	EL5159	NPT LB TEAM ORANGE
EL2406	NPT LB DK NAVY	EL5202	NPT LB LT. ORANGE
EL2449	NPT LB LT ROYAL	EL5203	NPT LB BRIGHT ORANGE
EL2499	NPT LB TURQUOISE	EL6279	NPT LB RED
EL2584	NPT LB ROYAL	EL6398	NPT LB CARDINAL
EL2589	NPT LB LT BLUE	EL6399	NPT LB BURGUNDY
EL2768	NPT LB BRT BLUE	EL6400	NPT LB SCARLET
EL3399	NPT LB FOREST GREEN	EL7300	NPT LB FLESH
EL3401	NPT LB LT. GREEN	EL7495	NPT LB SPICE BROWN
EL3403	NPT LB DALLAS GREEN	EL7574	NPT LB DK BROWN
EL4202	NPT LB GOLD	EL9074	NPT LB White
EL4215	NPT LB YELLOW	EL9746	NPT SUPER POLY 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.

**\*Note to 100% Cotton users: 100% Cotton could have a ghost image appear if printed with low bleed inks. EL NPT HO LB inks are low bleed inks and should not be printed on 100% Cotton. These products are recommended for polyester and polyester/cotton blends.**

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.