



## Technical Data Sheet #356

02/12/2011

<b>Wet Ink Tack</b>	Medium
<b>After Flash Tack</b>	Low
<b>Printability</b>	Great
<b>Surface Appearance</b>	Provides for a smooth top coat
<b>Opacity/Viscosity</b>	Low/Medium
<b>Bleed Resistance</b>	Great for 100% Polyester
<b>Gel Point/Flash Time</b>	150°F (66°C.) / decreases with deposit thickness
<b>Fusion Temperature</b>	290°F (143°C) to 330° F (166°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>	EL0750 is an under base
<b>Emulsion</b>	Capillary Film or Direct emulsion
<b>Mesh Count</b>	86-156 mc in. (34-62 mc. CM.)
<b>Extender</b>	N/A
<b>Thickener</b>	N/A
<b>Storage</b>	<b>65°F to 95°F (18° C to 33° C) Avoid direct sun</b>
<b>Cleanup</b>	Non-phthalate screen wash
<b>MSDS</b>	#38
<b>Color Range</b>	Semi-Clear Base
<b>Substrate Type</b>	100% Polyester
<b>Substrate Color's</b>	Light, Medium, & dark fabrics

ANY APPLICATION NOT REFERENCED IN THIS TECHNICAL DATA SHOULD BE PRE-TESTED OR CONSULTATION SOUGHT WITH RUTLAND'S APPLICATIONS LABORATORY PRIOR TO PRINTING.

## Endurance Inks

### EL0750 NPT Endurance UC Base

#### Description

Endurance UC Base is a press-ready non-phthalate base with superior bleed resistance when used in combination with EL9750 NPT Endurance White. The combination is designed for printing on 100% Polyester Performance fabrics. Endurance UC Base has a cure temperature range from 290°F (143° C) to 330° F (166°C) while still blocking dye migration on most 100% Polyester fabrics. This means it can be processed along with other print inks without the need of extremely tight dryer tolerances required by some low cure products.

#### Features of NPT Endurance UC Base

- Wide range of cure from 290°F (143°C) to 330° F (166°C)
- Endurance White printed on top of UC Base will have a smooth athletic type surface
- Superior bleed blocking for printing on 100% polyester performance fabrics
- Great stretch and recovery makes it a perfect athletic ink
- Non-Phthalate
- Good shelf stability

#### Application

Print directly onto 100% Polyester substrates. NPT Endurance UC Base is normally printed through mesh ranges from 86—156 mc in. (34—62 mc. CM.) Recommend 70-80 Durometer squeegee with sharp edge for maximum definition. Proper cure is achieved when garment reaches 290°F (143°C) to 330° F (166°C)

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 EL0750 UC Base as an underlay with EL9750 Endurance White over top. Printers should always test the ink on their fabric under their process conditions before printing production runs.

#### Special Recommendations

- **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 Non-Phthalate Endurance UC Base nor any of the Clairra 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.