



## Technical Data Sheet #388

9/10/2014

Wet Ink Tack	Low
After Flash Tack	Medium
Printability	Great
Surface Appearance	Satin
Opacity/Viscosity	High/High
Bleed Resistance	Great for 100% Polyester
Gel Point/Flash Time	150°F (66°C.) / decreases with deposit thickness
Fusion Temperature	280°F (138°C) to 300° F (149°C)
Squeegee Hardness	Medium/Hard
Squeegee Blade	Sharp
Squeegee Angle	45°
Squeegee Speed	Medium to High
Underlay	EL0755 Endurance Plus Grey Base
Emulsion	Capillary Film or Direct emulsion
Mesh Count	86-156 mc in. (34-62 mc. CM.)
Extender	N/A
Thickener	N/A
Storage	65°F to 95°F (18° C to 33° C) Avoid direct sun
Cleanup	Non-phthalate screen wash
MSDS	#38
Color Range	All colors mixed using CB Color Boosters in EL0209 Endurance Plus Mixing Base.
Substrate Type	100% Polyester
Substrate Color's)	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. 704 553 0046 EXT. 151

## Low Bleed Inks

### Endurance Plus Ink Series

#### Description

EL9755 Endurance Plus White is a press-ready non-phthalate white plastisol ink with great bleed resistance and a wide cure temperature range for printing on 100% Polyester Performance fabrics. For fabrics with severe migration, use EL0755 Endurance Plus Barrier Grey as an underlay. The combination of the two give the best migration resistance. Endurance Plus White and Endurance Plus Barrier Grey have a cure temperature range from 280°F (138°C) to 300° F (149°C) while still blocking dye migration on most 100% Polyester fabrics. EL0209 Endurance Plus Mixing Base can be used with Rutland's C3 Color Boosters to create desired low temperature colors. Formulations are available in the Online Color Mixing Calculator or the DMX Desktop Color Mixing Software. Mixed colors would be printed over the Barrier Grey/White layer for the most brilliant prints. EL8209 Endurance Plus Black is also available with same low temperature print qualities.

#### Features

- Low temperature cure from 280°F (138°C) to 300° F (149°C)
- Smooth athletic surface on cured print
- Soft drape, supple feel to the print
- Superior bleed resistance for printing on 100% polyester performance fabrics
- Great stretch and recovery makes it a perfect athletic ink
- Complies as a non-phthalate and no lead product as defined by CPSC

#### Application

Print EL9755 Endurance Plus white over EL0755 Endurance Plus Barrier Grey or directly onto 100% Polyester substrates where applicable. Endurance Plus inks print well through mesh ranges from 86-156 mc in. (34-62 mc CM.) Recommend 70-80 Durometer squeegee with sharp edge for maximum print definition.

NOTE: Poorly dyed polyester or too much heat in the curing process can overcome any low bleed inks ability to block dye migration. For severe migration use EL0755 Endurance Plus Barrier Grey as an underlay. 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 Endurance Plus inks 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.