



Technical Data Sheet #355

02/12/2011

Wet Ink Tack	Medium
After Flash Tack	Low
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	290°F (143°C) to 330° F (166°C)
Squeegee Hardness	Medium/Hard
Squeegee Blade	Sharp
Squeegee Angle	45°
Squeegee Speed	Medium to High
Underlay	EL0750 Endurance UC 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	White
Substrate Type	100% Polyester
Substrate Color's)	Light, Medium, & dark fabrics

Endurance Inks

EL9750 NPT Endurance White

Description

Endurance White is a press-ready non-phthalate white with superior bleed resistance and wide cure temperature range for printing on 100% Polyester Performance fabrics. **For fabrics with severe migration, use EL0750 Endurance UC Base as an underlay.** The combination of the two give the best migration resistance.

Endurance White 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 allows for processing along with other printing inks without the need of extremely tight dryer tolerances as required by some low cure products.

Features of NPT Endurance White

- Wide range of cure from 290°F (143°C) to 330° F (166°C)
- Smooth athletic surface on cured ink
- Superior migration resistance for printing on 100% polyester performance fabrics
- Great stretch and recovery makes it a perfect athletic ink
- Non-Phthalate
- Good shelf stability

Application

Print over EL0750 Endurance UC Base or directly onto 100% Polyester substrates where applicable. NPT Endurance White 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 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 EL0750 Endurance UC Base 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 Non-Phthalate Endurance White nor any of the Claira 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.

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