

Claira™ NPT Non-Phthalate Poly Base

Technical Data Sheet #240

Revised 6/23/2011

Wet Ink Tack	Medium
After Flash Tack	Low
Printability	Great
Surface Appearance	Matte
Opacity/Viscosity	Formula dependent/High
Bleed Resistance	Great for 100% Polyester
Gel Point/Flash Time	160°F (71°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	See Application data
Emulsion	Capillary Film or Direct emulsion
Mesh Count	86-156 mc in. (34-62 mc. CM.)
Extender	N/A
Thickener	Thickener # 10 Pdw Thickener
Storage	65°F to 95°F (18° C to 33° C) Avoid direct sun
Cleanup	Non-phthalate screen wash
MSDS	Call
Color Range	Natural Base
Substrate Type	100% Polyester
Substrate Color(s)	Light, Medium, & dark fabrics with appropriate under base

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

EL0746 NPT Poly Base (now Endurance base)

Description

EL0746 NPT Poly Base is formulated as a press-ready non-phthalate low bleed plastisol base used to mix colors for printing on 100% Polyester. **NPT Poly Base** has great dye migration resistance, however; it should always be used with NPT Super Poly White or where severe bleeding is a problem we suggest EL0266 Barrier Base (Grey) as an under base for maximum protection against dye migration. **EL0746 is also used as a mixing base in combination with Endurance UC Base and Endurance White.**

Features of NPT Poly Base

- Short body for easy printing.
- Fast shearing action means higher press speeds.
- Great low bleed qualities for printing on 100% polyester
- Mix with Claira C3 Color Boosters to maintain Non-Phthalate status.
- Good shelf stability

Application

Mix colors per C3 formulations and print over an under base on 100% Polyester substrates. **NPT Poly 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 320°F (160°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 ML0266 Dyno Grey as an underlay or print a combination of Endurance UC Base, Endurance White under colors mixed in EL0746.

***Note to 100% Cotton users: 100% Cotton could have a ghost image appear if printed with low bleed inks. Colors mixed with this base are low bleed inks and should not be printed on 100% Cotton. This product is recommended for polyester polyester/cotton blends.**

Special Recommendations

Claira Colors™, Whites 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-isobutyl, and (DMP) Dimethylphthalate, including esters of ortho-phthalic acid and are not direct ingredients in the manufacture of Claira™ Non-Phthalate Poly Clear nor any of the Claira Specialty 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.