Claira™ NPT Non-Phthalate Specialty Ink

ES3101 NPT Luminescent

Technical Data Sheet #327 7/2-/2009	
Wet Ink Tack	Low
After Flash Tack	Medium
Printability	Great
Surface Appearance	Satin Glow in Dark
Opacity/Viscosity	Medium / Medium
Bleed Resistance	None
Gel Point/Flash Time	160°F (71° C.) decreases with deposit thickness
Fusion Temperature	320°F (160°C.)
Squeegee Hardness	Medium
Squeegee Blade	Sharp
Squeegee Angle	45°
Squeegee Speed	Medium to High
Underlay	NPT White
Emulsion	Direct Emulsion or Capillary Film
Mesh Count	86—156 mc in (34—62 mc cm)
Extender	N/A
Thinner	N/A
Thickener	N/A
Storage	65°F to 95°F (18°C to 35°)Avoid direct sun.
Cleanup	Bio-degradable screen wash
MSDS	# 38
Color Range	ES3101 NPT Luminescent
Substrate Type	Cotton
Substrate Colors)	Light, Medium, & Dark fabrics with NPT White underlay

Description

ES3101 NPT Luminescent Base is formulated as a press-ready plastisol for printing on 100% Cotton. It gives a glow in the dark effect when applied to textiles. It glows a pale yellow/green.

Features

- Short body and very low wet tack for easy printing.
- Fast shearing action means higher press speeds.
- Easy to use, no viscosity modifications necessary
- Can be tinted with up to 5% C3 Fluorescent Color Boosters to make Glow in Dark Colors.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

Application

ES3101 requires stirring before printing.. Print directly onto substrates or over a white underlay. ND3101 is normally printed through mesh ranges from 86—156 mc in (34—62 mc cm) The Glow last 20 to 30 minutes and recharges instantly when exposed to a light source.

Special Recommendations

- **Do not dry clean, bleach, or iron the printed image.**
- **Note: This is not a low bleed ink. Do not print on polyester fabrics.**

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 Colors™ test positive for the restricted phthalates.

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.

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.