

Technical Data Sheet #321

07/17/2009

Wet Ink Tack	Low
After Flash Tack	Slight
Printability	Excellent, for fast production
Surface Appearance	Glossy
Opacity/Viscosity	Medium / Medium
Bleed Resistance	None
Fusion Temperature	320°F (160°C.)
Squeegee Hardness	70-80 durometer
Squeegee Blade	Sharp
Squeegee Angle	45° to screen mesh
Squeegee Speed	Maximum
White Underlay	ES9003 NPT SpandeSol White
Flood Stroke	Load ink into mesh opening
Print Stroke	Max. speed, light pressure
Emulsion	Direct, Indirect, Capillary film
Mesh Count	86 mc in (34 mc cm)
Screen Tension	As recommended for mesh
Extender	Not recommended
Thinner	N/A
Thickener	M00010 Thickener #10
Storage	65°F to 95°F (18°C to 35°) Avoid direct sun.
Cleanup	Bio-degradable screen wash
MSDS	# ES0031, ES9003, ES8396
Color Range	ES0031 Base, ES8396 Black and ES9003 White
Substrate Type	Lycra Spandex (Nylon)
Substrate Color(s)	Light and Dark fabrics

Claira™ NPT Non-Phthalate Specialty Inks

ES NPT SpandeSol Ink

Description

ES NPT Spandesol inks can be printed on Lycra Spandex (Nylon Lycra) to provide good stretch and softness to the design. Colors can be created by mixing C3 Color Boosters into ES0031 NPT Clear using the C3 recipes in the M2007 Ink Mixing Software.

Features

- ES NPT Spandesol is a press-ready plastisol designed for printing on nylon lycra fabrics.
- Formulated to have good adhesion properties in addition to increased elongation.
- Makes a soft rubbery print when printed in thick print applications
- Non-Phthalate formulation to comply with new regulations restricting phthalates.
- Add NPT Spandesol Clear as a stretch additive to improve stretch of other NPT plastisol inks

Application

Print NPT Spandesol colors through 86 mc in (34 mc cm). Insure that a sufficient amount of ink is printed down to completely bridge the ribs of the substrate to provide adequate stretch. Mix up to 30% C3 Color Boosters into ES0031 to create colors. Add up to 30% NPT Spandesol Clear to improve stretch of other NPT Plastisol inks.

Available Product:

ES0031 NPT Spandesol Clear
ES9003 NPT Spandesol White
ES8396 NPT Spandesol Black

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.

