

Technical Data Sheet #319

07/17/2009

Wet Ink Tack	Low
After Flash Tack	Low
Printability	Fast
Surface Appearance	Blisters, bubbles
Opacity/Viscosity	Medium / Medium
Gel Point/Flash Time	160°F (71°C.)
Fusion Temperature	320°F (160°C.) to 350°F (177°C.) design dependent
Squeegee Hardness	Soft
Squeegee Blade	Sharp
Squeegee Angle	45°
Squeegee Speed	Slow / Medium
Emulsion	All capillary films, direct or indirect liquid emulsions
Mesh Count	83–156 mc in (32– 62 mc cm)
Extender	N/A
Thickener	M00010 Thickener #10
Storage	65°F to 95°F (18° to 35°C) . Avoid direct sun.
Cleanup	Bio-degradable screen wash
MSDS	#ES0231
Substrate Type	Cotton
Substrate Color(s)	Light, Medium, & Dark fabrics

Claira™ NPT Non-Phthalate Specialty Puffs

ES0231 NPT Blister Base

Description

ES0231 is designed to provide great adhesion when printed onto textiles. It gives superior wash fastness when cured at 320°F (160°C). Combined with higher temperatures and longer dwell times in the dryer, a variety of looks can be achieved. ES0231 is used as the under base in producing the Faux Leather print technique. Technique cards are available with print instructions for the Faux Leather.

Features

- Puff Base for creating a blister or bubbly surface.
- Can be colored with C3 Color Boosters for a full variety of colors.
- Provides excellent printability with no viscosity modifications.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

Application

ES0231 allows addition of up to 30% C3 Color Boosters to enhance the color of the design. Prints through mesh count range from 83–156 mc in (32– 62 mc cm) and up to 400 Micron Capillary Film stencil on the screen. The cure temperature can be varied from 320°F (160° C.) to 350° F.(177° C.) to create finished prints that range from slightly puffy and stretchy to prints that have pock marks, dimples and craters.

Special Recommendations

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.

- **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 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.