

## Technical Data Sheet #328

06/02/2010

<b>Wet Ink Tack</b>	Low
<b>After Flash Tack</b>	Low
<b>Printability</b>	Excellent, for fast production
<b>Surface Appearance</b>	Thick ink film = Grey, Satin
<b>Opacity/Viscosity</b>	High / High
<b>Bleed Resistance</b>	Superior for 100% Polyester
<b>Gel Point/Flash Time</b>	150°F (66°C)
<b>Fusion Temperature</b>	320°F (160°C)
<b>Squeegee Hardness</b>	70—80 durometer
<b>Squeegee Blade</b>	Sharp
<b>Squeegee Angle</b>	45° to screen mesh
<b>Squeegee Speed</b>	Medium to High
<b>Underlay</b>	N/A
<b>Emulsion</b>	Direct, Indirect, Capillary film
<b>Mesh Count</b>	86-110 mc in(34-43 mc cm)
<b>Extender</b>	N/A
<b>Storage</b>	65°F to 95°F (18°C to 35°) Avoid direct sun.
<b>Cleanup</b>	Bio-degradable screen wash
<b>MSDS</b>	#38
<b>Color Range</b>	ES0266 NPT Barrier Base
<b>Substrate Type</b>	Polyester, Polyester Cotton Blends, some sublimation prints, and some rotary printed goods
<b>Substrate Color(s)</b>	Light, Medium, and Dark

## Claira™ NPT Non-Phthalate Specialty Ink

### ES0266 NPT Barrier Base

#### Description

**ES0266 NPT Barrier Base** is being offered as a high opaque, low bleed under base that has been formulated for maximum opacity and excellent bleed resistance on 100% Polyester. Test of this product has been very successful on various fabrics to include 100% Polyester Jerseys, 100% Polyester Performance fabrics, Rotary Screen printed goods, Sublimated prints, and works to block fabric color migration when printing a clear top coat over a white. NPT Barrier Base is the non-phthalate version of ML0266 Dyno Grey. ES0266 NPT Barrier Base prints with a satin finish and is grey in color similar to Pantone 430 C.

#### Features

- High performance under base for 100% Polyester
- Creamy, short body plastisol for easy printing.
- Low tack formulation for fast shearing action.
- User friendly, no viscosity modifications necessary.
- Superior low bleed properties.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

#### Application

Print Barrier Base straight from the container. Barrier Base is user friendly and may be printed through 86—110 mc in (34 - 43 mc cm) mesh range without modifying the viscosity. Print Rutland's standard White inks on top of the Dyno Grey to have a brilliant White print! Use softer squeegee or thicker emulsion on both the the Barrier base and White screen to insure complete coverage and maximum low bleed properties. A thicker layer of Barrier Base is suggested for severe bleeding fabrics.

NOTE: Due to variations in dyed polyesters, any application whether referenced or not in this technical data should be pre-tested for suitability on the actual production fabric and/or consultation sought with Rutland's Applications Laboratory prior to printing.

#### Special Recommendations

- **Do not dry clean, bleach, or iron the printed image.**

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.

CALL 704-553-0046 EXT. 192 FOR MORE INFORMATION.

