

## Technical Data Sheet #346

2/25/2010

<b>Wet Ink Tack</b>	Low
<b>After Flash Tack</b>	Medium
<b>Printability</b>	Great after stirred
<b>Surface Appearance</b>	High Gloss
<b>Opacity/Viscosity</b>	Low/High
<b>Bleed Resistance</b>	N/A
<b>Gel Point/Flash Time</b>	160°F (71° C.)/decreases with deposit thickness
<b>Cure Temperature</b>	320°F (160°C)
<b>Squeegee Hardness</b>	Soft
<b>Squeegee Blade</b>	Sharp
<b>Squeegee Angle</b>	45°
<b>Squeegee Speed</b>	Medium
<b>Underlay</b>	Depending on the fabric
<b>Emulsion</b>	Capillary Film up to 400 microns
<b>Mesh Count</b>	86—110 mc in (34—43 mc cm)
<b>Extender</b>	N/A
<b>Thinner</b>	N/A
<b>Thickener</b>	M00004 Liquid Thickener
<b>Storage</b>	65°F to 95°F (18° C to 33° C) Avoid direct sun
<b>Cleanup</b>	Bio-degradable screen wash
<b>MSDS</b>	# EG0280
<b>Color Range</b>	EG0280 NPT Super Gel Clear (2 part)
<b>Substrate Type</b>	Cotton or underlay
<b>Substrate Color(s)</b>	Light, Medium, & Dark fabrics

## Claira™ NPT Non-Phthalate Specialty Ink

### EG0280 NPT Super Gel (2 part mix)

#### Description

**EG0280 NPT Super Gel** is formulated as a plastisol for printing on 100% Cotton fabrics or over a low bleed underlay on poly/cotton. This product has excellent edge definition when stacked for that 3D look and provides maximum gloss when fully cured. The product is designed to function as a clear for over coat in its finished state and as a Super Gel Clear once 2% M00004 Liquid Thickener is added. See mix instructions below under Application.

#### Features

- Fast shearing action means higher press speeds.
- Can be tinted with up to 30% C3 Color Boosters to make Gel Colors.
- High gloss and clarity when printed in thick film and cured properly.
- Non-Phthalate formulation to comply with new regulations restricting phthalates.

#### Application

**EG0280 requires thickening before printing as a Gel.** To obtain the thick body gel min in 2% of M00004 Liquid Thickener. Mix in thoroughly with a mechanical mixer. Allow the mix to sit for 2 hours before printing to obtain the full body. Print EG0280 directly onto substrates or over an underlay. EG0280 is normally printed through mesh ranges from 86—110 mc in (34—43 mc cm) You may print through finer mesh to achieve fine details with less height. Recommend 60 Durometer squeegee and thick film emulsion for superior edge definition when stacking. For higher gloss, cure at slightly higher temperature for longer times.

#### 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.

