

## EH9020 NPT SILKY COTTON WHITE

### Technical Data Sheet #389

July 14, 2014

|                             |  |
|-----------------------------|--|
| <b>Wet Ink Tack</b>         | Low                                      |
| <b>After Flash Tack</b>     | Low                                      |
| <b>Printability</b>         | Great                                    |
| <b>Surface Appearance</b>   | Satin                                    |
| <b>Opacity/Viscosity</b>    | High/Medium                              |
| <b>Bleed Resistance</b>     | N/A                                      |
| <b>Gel Point/Flash Time</b> | 150°F / decreases with deposit thickness |
| <b>Cure Temperature</b>     | 320°F (160°C)                            |
| <b>Squeegee Hardness</b>    | Medium                                   |
| <b>Squeegee Blade</b>       | Sharp                                    |
| <b>Squeegee Angle</b>       | 45°                                      |
| <b>Squeegee Speed</b>       | Medium to High                           |
| <b>Underlay</b>             | N/A                                      |
| <b>Emulsion</b>             | Direct emulsion                          |
| <b>Mesh Count</b>           | 86–305mc. in. (34–120 mc. cm.)           |
| <b>Extender</b>             | N/A                                      |
| <b>Thickener</b>            | N/A                                      |
| <b>Storage</b>              | 65°F to 95°F. Avoid direct sun.          |
| <b>Cleanup</b>              | Non-hazardous screen washes              |
| <b>MSDS</b>                 | #38                                      |
| <b>Color Range</b>          | EH9020 NPT SILKY Cotton White            |
| <b>Substrate Type</b>       | Cotton                                   |
| <b>Substrate Color(s)</b>   | Light, Medium, & Dark fabrics            |

#### Product Overview:

NPT SILKY Cotton White is designed for maximum smoothness and opacity on cotton fabrics. NPT SILKY Cotton White is opaque, with excellent matting characteristics. This smooth, creamy consistency is easy to print with on both manual and automatic presses. NPT SILKY Cotton White is fast flashing, allowing for shorter dwell times and faster production rates. NPT SILKY Cotton White works well as a highlight white or a stand-alone white.

#### Printing:

For best results, flood the image and print using a sharp 70 durometer squeegee. A 65-90-65 durometer squeegee may be used when a very heavy deposit is required. NPT SILKY Cotton White will print through screen meshes in the range of 86-305 MCI (32-120 MC cm). For smoothest deposit, use 160 MCI (62 MC cm) mesh or higher when necessary. Coarse meshes (86–110 MCI, 34-43 MC cm) are recommended for a thicker ink deposit which may be needed for heavy cotton fleece fabric.

#### Additives:

NPT SILKY Cotton White is a ready-to-print ink. Reduce, only if necessary, using curable reducer. Reducing the viscosity will also reduce the opacity and coverage of the ink. Please test before production run.

#### Flashing:

Parameters vary between all flash units. Flash for 2-3 seconds with the ink deposit reaching 150-250°F (65-121°C). Ink should be dry and without tack. Warning: Over flashing can cure the ink and prevent adhesion between coats of ink.

#### Curing:

Cure at 320°F (160°C) over a 60-90 second period, depending on oven type and thickness of ink deposit. A thicker deposit will take longer to cure as the heat must penetrate through the entire ink layer.

### Special Recommendations

- **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 NPT SILKY Cotton White nor any of the Clairia 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.