PRODUCT INFORMATION BULLETIN

Rutland™ LC9800 CHILL LC POLY WHITE

LC9800 Chill Low Cure Poly White is a flexible temperature cure ink for 100% poly fabrics. When printing on fabrics that exhibit unstable dyes, this ink allows you to drop the cure temperature as low as 270°F/132°C offering you better dye migration control and lowering energy consumption costs. Chill Poly White shears down to a very creamy body and produces a bright, opaque, matte finish with soft hand and terrific fiber control.

Highlights

- Lower cure temperatures allow for better control on fabrics that may shrink or distort under higher temperatures
- Supple hand and excellent elasticity
- Stable finish even at higher cure temps, this ink does not "puff" or swell as much as competitive products
- High opacity on darker fabrics facilitating non-migrating pigments
- Energy savings and cooler operating temperatures
- Excellent bleed resistance

Compliance

- Non-phthalate
- Internationally compliant
- Visit www.rutlandinc.com for more information

Precautions

- The information provided in this document is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications

Printing Tips

- Adjust flash cure temperature and dwell time so ink is just dry to touch. Avoid excessive flash temperatures to protect fabric and migration of dyes. Depending on flash unit, a 3 - 5 second flash is adequate.
- For best results, use a print-flash-print technique to ensure sufficient ink deposit on dark fabrics.
- Use 86–230t/in (34-90t/cm) mesh screens with high tension for best performance, ink release and opacity. Lower mesh equals more deposit. Use higher meshes to achieve half tones.
- Adjust your print parameters to allow this ink to clear fully on the second stroke using medium to low pressure for best dye blocking and opacity. As this ink shears down, less pressure will be required. Adjust accordingly.
- Curing is a time and temperature process. Using a lower temperature, at a lower belt speed will provide the best result without damaging the fabric.
- A behavior for high-opacity low cure inks is to "body-up" or gain viscosity when at rest. Be sure to "Pre-shear" or agitate this ink before use to achieve optimal flow before printing. Be careful to not use high-speed drills or similar equipment that will create friction-heat that can cause the ink to begin to cure. Store ink buckets up off of cold floors to reduce pre-shear time.
- Add up to 10% of LC0000 Chill Relax Extender to extend the LC colors and whites.

Recommended Parameters

Fabric Types
100% Polyester & Poly blends

Flash & Cure
Flash: 150° F (66° C)
Cure: 270°-320° F (132° -160° C)

Clean Up
Non-phthalate press wash

Mesh
Count: 86- 230t/in (34 -90t/cm)
Tension: 18-35n/cm3

Pigment Loading
N/A

Health & Safety
Find SDS information here: www.avient.com/resources/safety-data-sheets or contact your local CSR

Squeegee
Durometer: Medium: 60-70, 60/90/60
Profile: sharp, square
Stroke: 2 stroke, medium speed
Angle: 10° -20°

Additives
K2940 HUGGER CATALYST

Stencil
Standard Emulsion
Off Contact: 1/16" (2mm)
Emulsion Over Mesh: 15-20%

Storage
65°-90°F (18°-32°C)
Avoid direct sunlight.
Use within one year of receipt.
Keep container well sealed.

AVIENT
AVIENT SPECIALTY INKS

V1.00 (Modified: 18/03/2022)