PRODUCT INFORMATION BULLETIN

Rutland™ LC0550 CHILL LC BARRIER GREY

LC0550 Barrier Grey is an under base product designed to block unstable garment dyes from migrating into a Chill top white or Chill top colors on the very worst dyed fabrics or poly garments that are dye sublimated with patterns such as Camo and Digi-Camo. Chill products cure as low as 270°F/132°C for printing on polyester garments produced with unstable dyes or are prone to shrinkage when exposed to heat.

Highlights

- Lower cure temperatures allow for better control on fabrics that may shrink or distort under higher temperatures
- Works well on manual or automatic presses
- Shears down quickly to a creamy, smooth body
- Excellent bleed resistance at a wide temperature range, low cure (270°F/132°C) with maximum cure of 320°F/160°C
- Energy savings and cooler operating temperatures

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.
- Use 86–110t/in mesh screens for best performance and opacity
- For printing under a white or color over-print it is typical to print two strokes of Chill Barrier Grey, flash until dry to the touch, and then print white or colors over the barrier under base, flashing as needed.
- 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.

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: 86-110t/in
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.

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