



AVIENT SPECIALTY INKS

ASI Sharp Clear LC

ASI Sharp Clear LC is a low-cure special effect clear developed to create high resolution graphics with sharp detail. ASI Sharp Clear LC can be used in high density applications or blended with other texture inks to create unique effects.

HIGHLIGHTS

- ▶ Satin finish, dry hand feel
- ▶ Low cure, save energy
- ▶ Super straight-edge definition, excellent sharp-corner properties
- ▶ Use as an overprint clear, tintable or may be overprinted with color
- ▶ Excellent adhesion to fabrics, stretch properties, and wash durability

PRINTING TIPS

- ▶ Use consistent, high-tensioned screen mesh and sharp edged squeegees for best print results. Recommended mesh counts can vary depending on particle size
- ▶ For best HD results, use open mesh counts with 200 - 400 micron capillary film and print-flash-print. Use a heavy flood to fully fill the open areas of the stencil with ink then print with medium squeegee pressure
- ▶ ASI Sharp Clear LC stacks easily for HD application. Commonly overprinted with multiple colors for a unique look and feel
- ▶ Suitable for fine mesh printing for tone-on-tone look
- ▶ Tintable with plastisol colorants. See Pigment Loading section for suggested tinting percentages. Adjust the % colorant added based on the strength of the colorants and color saturation desired
- ▶ Surface of clear may appear milky during application but will gain transparency after cured. Clarity of ASI Sharp Clear LC is dependent on thickness
- ▶ Curing is a time and temperature process, a lower oven temperature setting with a slower belt speed while maintaining recommended ink cure temperature is always best to protect fabric and reduce energy consumption
- ▶ ASI Sharp Clear LC can be cured between 270°F - 320°F (132°C - 160°C). Excessive cure temperatures above 350°F (177°C) can result in tacky hand feel, rounded edges, and an increase in gloss

COMPLIANCE

- ▶ Non-phthalate
- ▶ For individual compliance certifications and conformity statements, please visit www.avientspecialtyinks.com/services/compliance-support

PRECAUTIONS

The information above 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



AVIENT
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INKS

V1.12 (Modified: 05/08/2025)

PRODUCT INFORMATION BULLETIN



RECOMMENDED PARAMETERS



Fabric Types

100% cotton, blends, spandex, uncoated nylon, acrylic



Mesh

Count: 86-196 t/in (34-77 t/cm)
Tension: 25-35 n/cm²



Squeegee

Durometer: 60/90/60, 60-70
Profile: Square, Sharp
Stroke: Hard flood, Slow stroke
Angle: 10-15°



Stencil

2 over 2
Off Contact: 1/16" (.2cm)
Emulsion Over Mesh: 15-20% or 200-400 micron



Flash & Cure

Flash: 220°F (105°C)
Cure: 270°F - 320°F (132°C - 160°C)



Pigment Loading

up to 10% Wilflex PC
up to 15% Wilflex EQ
up to 40% Wilflex RIO / MX
up to 30% Rutland C3 Boosters



Additives

N/A



Storage

65-90°F (18-32°C)
Avoid direct sunlight
Use within one year of receipt



Clean Up

Dispose unused ink responsibly. Standard plastisol cleaners, press wash, or ink degreaser



Health & Safety

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