

AVIENT SPECIALTY INKS

PRODUCT INFORMATION BULLETIN



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- >> Use as an overprint clear, tintable or may be corner properties
 - 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
- 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 SPECIALTY INKS

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

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



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



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 degradant



Health & Safety

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

2024, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application, volu have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner