



70DIAC ECOCENTRIC INKS

PRODUCT INFORMATION BULLETIN

Libra™ Clear Gel

RECOMMENDED PARAMETERS



Fabric Types

100% Polyester, Nylon, Cotton and Poly/Cotton blended fabrics



Mesh

Count: 156-305t/in (61-120t/cm) Tension: 18-35n/cm3



Squeegee

Durometer: 70 or 60-90-60 Profile: sharp, square

Stroke: x2 stroke, medium speed

Angle: 10-15%



Stencil

Standard Emulsion Off Contact: 1/16" (2mm) Emulsion Over Mesh: 25-40 micron



Flash & Cure

Flash: 280°F(138°C) for 4 seconds (on

preheated pallets)

Cure: 60 seconds at 270°F(132°C)



Pigment Loading

Libra™ Silicone Pigments Maximum

20%



Libra™ Additives

Libra™ Retardant: 0.1-2%



Storage

Store in sealed containers 12 months from manufacture >40°F (5°C)

<77°F(25°C)



Clean Up

Standard plastisol cleaners



Health & Safety

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

Libra™ Clear Gel is a low-medium viscosity 2-part system (LIB0410 Part A/ LIB0411 Part B) designed to be mixed in a 1:1 ratio with no Catalyst required. This silicone ink provides a crystal clear and high gloss finish for special effect embellishments and can be used with glitters, shimmers and color shifting particles to create eye popping effects. A semi-tacky hand feel and excellent hand and drape-ability are achieved with this gel.

HIGHLIGHTS

Crystal clear, extreme gloss finish

Semi tacky hand with excellent drapability

Excellent adhesion to Nylon

Super-soft hand feel

Water droplet effect

DWR (Durable Water Repellents) may effect cure

PRINTING TIPS

Mix Libra™ Clear Gel Part A and B in a 1:1 ratio, no Libra™ Catalyst is required. Libra™ Silicone pigments or special effect powders can be added up to 20 parts. Mix well and print. To prevent wastage only mix what is need to print for 4 hours.

Use 156-305t/in (61-120t/cm) mesh screens for best performance.

Printing over an underbase prevents the low viscosity gel from absorbing into fabric and keeps it on top for best effect. Printing over a Libra™ RFU black when using colorshifting pigments will maximize effect.

Print with 1/16" or 2mm off contact.

Print two strokes to ensure the mesh is clear and you have a good ink deposit. Flash between prints.

Clean the stencil area when stopped to prevent screen blockages.

Prints should be cured at 270°F /132°C for 60 seconds. Check the cure temp at the ink surface.

Test all prints for print durability before starting the production run. Certain antimicrobial and DWR (Durable Water Repellents) may effect cure.

COMPLIANCE

Non-PVC, non-phthalate

Visit www.avient.com/products/screen-printing-inks/zodiac-libra for more information

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

V3.01 (Modified: 04/19/2021)

2021, 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. You have the responsibility to conduct full-scale end-product esting 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 nformation. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner