












PLHE1070 LB DIAMOND WHITE

PLHE1070 LB Diamond White is legendary for its excellent to superior bleed resistance and coverage. Diamond achieves a smooth hand with creamy to medium body. Its printability is good to great and can be used on a wide range of blends. This ink provides best in class dye resistance when a low-bleed ink is needed for challenging to general purpose printing. Diamond white prints well as an under base or stand alone white. While Diamond white can be used with most any plastisol, this ink's finish matches Brite Cotton White and Premium Poly White.


Highlights

-  Medium gloss, smooth, bright white appearance
-  Superior bleed resistance
-  Fast flashing with low tack
-  Improved viscosity stability
-  Matches Brite Cotton White
-  Widely considered a "must-have" ink for decades






Compliance

-  Non-phthalate
-  Internationally compliant
-  Visit <https://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.

Printing Tips

-  It is best practice to "pre-shear" ink before use. Do this by "Slicing and folding" the ink with an ink knife. Do not mix with power drill, friction heat from mechanical mixers other than a "Turn about" style mixer will thicken up the ink body.
-  Because of the excellent printing characteristics of Diamond White it may be printed as an underbase through mesh counts as high as 230/in (92 t/cm). Caution: Thinner ink deposits reduce bleed resistance.
-  For the best coverage, bleed resistance and brightest print, adjust the off-contact distance and squeegee pressure to print the ink layer on top of the fabric rather than penetrating through it.
-  PLHE1070 / 1075 will fully cure when the entire thickness of the ink deposit reaches 300°F (149°C). PLHE1070 is a superior quality low-bleed ink. To enhance the ability to prevent dye migration, flashing should be the minimum time and temperature necessary to surface cure the ink.
-  It has been noted that Diamond white becomes stiffer and harder to print as the product ages, do not add any reducer to Diamond if you can avoid it as this will effect dye blocking. Instead, transfer a smaller amount of ink into a smaller vessel and pre-shear vigorously with a stiff ink knife until the body loosens. If you feel like the ink is too stiff to stir- start with a smaller amount, get it moving, and add more.

Recommended Parameters

 Fabric Types Cotton/Poly blends	 Flash & Cure Flash: Flash 220°F Cure: 60 seconds at 300°F	 Clean Up Standard plastisol cleaners, press wash, or ink degradant
 Mesh Count: 125-230 t/in (48-92 t/cm) Tension: 18-35n/cm ³	 Pigment Loading Not recommended	 Health & Safety Find safety information here: www.avient.com/resources/safety-data-sheets or contact your local CSR
 Squeegee Durometer: Medium: 70 or 60-90-60 Profile: Square Stroke: x2 stroke, medium speed Angle: 10-20%	 Additives Reducers not recommended K2940 Hugger Catalyst	<p>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. You 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.</p>
 Stencil Standard Emulsion Off Contact: 1/16" (2mm) or greater Emulsion Over Mesh: 15-20%	 Storage 65 -95° F (18 -35° C) Avoid direct sunlight. Use within one year of receipt. Keep container well sealed.	
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