



| Recommendations         |                               |
|-------------------------|-------------------------------|
| <b>Product Overview</b> |                               |
| Product Code            | PLHE1070                      |
| Industry                | Inks                          |
| Application             | Screen Printing               |
| Category                | White Inks                    |
| Chemistry               | Plastisol                     |
| Substrate(s)            | Blends                        |
| Best Used By            | 12 months                     |
| Certification(s)        | ISO9001                       |
| <b>Curing:</b>          |                               |
| Fusion Temperature      | 300 °F                        |
| Fusion Time             | 4-6 seconds                   |
| <b>Performance:</b>     |                               |
| Coverage                | High Opacity                  |
| After Flash Tack        | Decreases with increased mesh |
| <b>Squeegee:</b>        |                               |
| Squeegee Profile        | Square                        |
| Squeegee Type           | Polyurethane                  |
| Squeegee Angle          | 10° - 20°                     |
| <b>Screen:</b>          |                               |
| Mesh                    | 110 to 230                    |
| <b>Storage:</b>         |                               |
| Storage Temperature     | 65°F - 95°F (18°C - 35°C)     |

*Last Change: Feb 2017*

## EF LB DIAMOND WHITE

EF LB Diamond White is a direct print low-bleed white for controlling dye migration on cotton / polyester blended garments. It can also be used as a bleed-resistant underbase for cotton / polyester blended garments.

### Features

- Smooth, bright white appearance
- Superior bleed resistance
- High opacity
- Extremely fast flashing with low tack
- Improved viscosity stability

### Instructions

PLHE-1070 Diamond White plastisol is Union's high-opacity low-bleed white. It is formulated to be an extremely bright white exhibiting high opacity, easy printability through fine meshes up to 196 (76 metric) and excellent bleed resistance on cotton / polyester blended fabrics. Diamond White retains a creamy viscosity during storage, is ready to use straight from the container and is designed for both manual and automatic printing. PLHE-1075 Premium LB White exhibits all the qualities mentioned above however, this Premium product also maintains and provides a smoother finish and a tolerance for higher temperatures which make it an excellent choice for underbasing or when a smoother finish is required. Mesh: Print through 125-230 (48-92 metric) monofilament polyester. Because of the excellent printing characteristics of Diamond White it may be printed as an underbase through a mesh count of 230 (92 metric) leaving an ultra smooth, opaque printing surface for the overprint colors. Caution: Thinner deposits of ink will reduce the effectiveness of the bleed resistance properties. On some cotton / polyester blends thinner deposits may not be possible.

Stencils: Any direct emulsion or capillary film compatible with plastisol inks.

Additives: PLHE-1070 is supplied ready to print. The viscosity has been carefully formulated to sit on top of the fabric when printed. Reducing the ink is not recommended unless absolutely necessary as over-reduction could cause a loss of bleed resistance and opacity. Measure carefully by weight and add no more than 5% PLRE-9000 Viscosity Reducer or 2% of the PLRE-9100 Concentrated Viscosity reducer. When printing through finer meshes (180-230T/72-92T metric) and/or at higher screen tensions (40 N/cm and above), the ink's ability to flow through the screen can be enhanced with very small amounts (less than 2%) of Union Ink's Flow Additive (MIXE- 9020). Additions above the recommended level will reduce the ink's viscosity dramatically and will have a negative effect on opacity and bleed resistance.

Printing Instructions: 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. Curing Instructions: PLHE-1070 / 1075 will fully cure and withstand repeated washings when the entire thickness of the ink deposit reaches 300°F (149°C). PLHE-1070 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.

Caution: Always test this product for curing, adhesion, bleed resistance, crocking, opacity, washability and other specific requirements before using in production.

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### Statement

Union Ink does not knowingly add plasticizers containing the phthalates listed and outlined in California Bill 1108, CPSIA HR-4040 and Oeko-tex Standard 100. The plasticizers identified may include di-(2-ethylhexyl) phthalate (DEHP), dibutyl phthalate (DBP), benzyl butyl phthalate (BBP), diisononyl phthalate (DINP), diisodecyl phthalate (DIDP), di-n-octyl phthalate (DnOP), (DIBP) Di-iso-butyl, and (DMP) Dimethylphthalate, including esters of ortho-phthalic acid and are not direct ingredients in the manufacture of our Non-Phthalate Inks. Union Ink does not test the final product for amounts of the aforementioned phthalate plasticizers and esters and encourages all users to conduct testing for their intended use.

### Disclaimer:



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