



Non-Phthalate Plastisol

EF Polyester Low-Bleed Plastisol (ATHP)

A high-opacity, low-bleed plastisol ink series for 100% polyester athletic uniforms.

Applications

- Direct print low-bleed series for controlling dye migration on 100% polyester fabrics.
- Athletic uniforms or any other fabrics prone to dye migration.

Features

- All inks are made with non-migrating pigments.
- Excellent opacity.
- Superior bleed resistance.
- Excellent durability.

General Information: Polyester low-bleed plastisols (ATHP) - Series are Union's ultimate high-opacity, low-bleed plastisols formulated to fight dye migration on the worst bleeding 100% polyester athletic uniforms or other synthetic substrates prone to dye migration. ATHP-Series inks are formulated to provide excellent printing characteristics and are designed for both manual and automatic printing. Premium Low-Bleed White ATHP-1070 offers printers a low-bleed white ink with easier printability, increased whiteness and better post-bleed properties. All standard colors of ATHP-Series inks contain non-migrating pigments. Which prevent overlapping colors from showing through and migrating into each other.

Opacity: Polyester low-bleed plastisols are high-opacity, low-bleed inks.

Mesh: Print through 74T-110T (29-34 metric) monofilament polyester. For maximum opacity use 62T (24 metric).

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

Additives: Polyester low-bleed plastisols are supplied ready to print. Since plastisol inks "body up" as they sit in the container you should always stir the ink well to determine the actual printing viscosity before adding any reducer. The viscosity of Polyester low-bleed plastisol has been carefully formulated to sit on top of the fabric when printed. Reducing will cause the ink to penetrate into the fabric affecting coverage. Any chemical modification will also diminish the inks bleed resistance. Care should be taken if modification is deemed necessary. Very small amounts .5-1% by weight of PLRE-9100 Concentrated Plastisol Reducer should be adequate. Never add mineral spirits to any plastisol ink.

Available Colors

ATHP-1070 Premium Low Bleed White	ATHP-2046 Rebel Gold
ATHP-1500 Grey	ATHP-2050 Burnt Orange
ATHP-1508 Dark Grey	ATHP-2057 University Orange
ATHP-2010 Lemon Yellow	ATHP-2064 Orange
ATHP-2013 Cream	ATHP-2102 Khaki
ATHP-2017 Vegas Gold	ATHP-3006 Brite Red
ATHP-2020 Chrome Yellow	ATHP-3011 Scarlet Red
ATHP-2040 Golden Yellow	ATHP-3015 Cardinal Red
ATHP-2045 Blazer Gold	ATHP-3021 Low Crock Flag Red

Printing Instructions: For the best coverage, bleed resistance and brightest prints, adjust the off-contact distance and squeegee pressure to print the ink layer on top of the printed fabric rather than pushing the ink entirely through it. Also be sure to follow recommended emulsion coating techniques as well as exposure settings.

Curing Instructions: Plastisol inks will not air dry and must be heat cured. Polyester low-bleed plastisols will fully cure and withstand repeated washings when the entire thickness of the ink deposit reaches 300°F (149°C). Be careful ink film temperatures do not exceed 330°F (166°C) as this temperature may facilitate dye migration.

Caution: Always test this product for curing, adhesion, crocking, opacity, bleed resistance, washability and other specific requirements before using in production. Because of the thick ink deposits required by athletic printers, Polyester Low-Bleed plastisols may require higher dryer temperatures or slower belt speeds for the ink deposit to reach the recommended curing temperature. For 100% polyester fabrics prone to extreme dye migration consider using Union's Barrier Clear PLHE-9040 or Barrier Grey PLHE-1500 as an under base especially when light or white overprint colors are required.

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ATHP-3033 Maroon
ATHP-3213 Cool Pink
ATHP-4010 Magenta
ATHP-4020 Deep Purple
ATHP-4101 Fashion Lilac
ATHP-4103 Rose Magenta
ATHP-5002 Aqua
ATHP-5008 Brite Blue
ATHP-5015 Collegiate Blue
ATHP-5017 University Blue
ATHP-5020 Mono Blue
ATHP-5035 Royal Blue
ATHP-5040 Navy Blue
ATHP-5060 Aqua Marine
ATHP-5075 Columbia Blue

ATHP-5108 Peacock Blue
ATHP-5148 Light Navy
ATHP-6001 Tahiti Green
ATHP-6008 Brite Green
ATHP-6016 Lime Green
ATHP-6020 Kelly Green
ATHP-6022 Chrome Green
ATHP-7031 Sienna Brown

Barrier Inks

PLHE-9040 Barrier Clear
PLHE-1500 Barrier Grey

Additives

PLRE-9100 Concentrated Reducer