



ELT Series

Extreme Low Temperature Plastisol Ink

Product Description

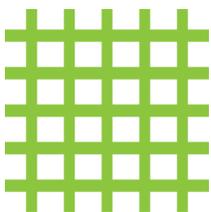
The latest innovation by One Stroke Inks is sure to change the screen printing industry forever. ELT is a new breed of plastisol ink. Speeding up production with quicker flash times and dropping energy cost with lower cure temperatures simply makes sense. The lower flash and cure temperature also lead to a number of other benefits not realized by the competition:

- No fabric shrinking.
- Stop ghosting.
- Prevent dye migration.
- Hot stacking is safe.
- Cool down stations are unnecessary.
- Significantly lower energy cost.
- Longer lasting platen adhesive.

In addition to preventing the problems listed above, ELT inks have many benefits not commonly found in plastisol inks:

- Excellent replacement for silicon ink.
- Universal ink for printing all fabrics (cotton, polyester, nylon, polypropylene).
- Stretches with Lycra® and spandex blends.
- Very smooth texture for fantastic resolution and easy multi-color printing.
- Ultra-soft feel.
- Very light ink viscosity.

Quick Product Specifications



Mesh Range:
61 - 230 count



Flash Curing:
3 to 4 seconds



Ink Curing:
250°F to 330°F



Clean Up:
IR-4 & PW-4

Ink Samples



Pantone® Colors

ELT Series inks are available in the Signature Color Chart. Please note the ELT Digital Black Underbase is not demonstrated in this color book. Custom colors are available. We can match Pantone® colors, heat press material, wet and dry ink, or any other swatch we can get our hands on.

Printing Tips For Success

Depending on the type of fabric you are screen printing, the ELT Series may require different printing instructions to be 100% successful. Each fabric type is listed below with instructions to lead you to better prints. See the following section for important printing instructions regarding the use of the ELT Digital Black Underbase.

Cotton & Poly/Cotton: Dye migration is not an issue when screen printing 100% cotton. However, cotton is likely to scorch at higher temperatures. Ghosting can also exist with lighter colors, pigment-dyed, and fluorescent cotton. Curing the ink film to 270°F or 280°F will prevent scorching and ghosting on 100% cotton. These temperatures will also prevent dye migration with poly/cotton.

100% Polyester: When printing polyester moisture management materials, keeping the temperature lower will help prevent common problems such as shrinking, ghosting, and dye migration. We recommend curing the ink film to 270°F to 280°F. Nylon catalyst will be required for screen printing waterproof polyester jackets and bags. Add 1 part nylon catalyst to 9 parts ink. For the most difficult dye migration fabrics, print with ELT Digital Black Underbase.

Digital Camo & Sublimated Polyester: Dye migration is a serious concern. Print the ELT Digital Black Underbase with your standard ELT White or colors on top. This will stop dye migration and contrast problems with ease. An extra screen will be required but dye migration will no longer be an issue. Cure the ink at 270°F to 280°F.

100% Nylon: Due to the possibility of damaging the nylon fabric, we recommend curing the ink film for most items to 270°F to 280°F. However, if you are screen printing 210 denier nylon drawstring bag or a similar heat sensitive material, it will be best to cure the ink as low as 250°F or 260°F. Nylon catalyst may be added to ELT Series inks for screen printing waterproof jackets and bags. Mix 1 part nylon catalyst to 9 parts ink.

Polypropylene: Inexpensive polypropylene will melt at temperatures above 275°F. For this reason, it is best to keep the curing temperature between 250°F and 270°F.

Spandex & Lycra® Blends: Stretch fabrics will require a thicker ink deposit to be successful. Consider 86 or 110 monofilament screen mesh with a print-flash-print technique. Also, the ELT Series inks are most stretchable when cured between 270°F and 280°F.

ELT Digital Black Underbase

ELT Digital Black Underbase is simply a dye-blocking underbase ink formulated to print with the ELT Series inks. This ink will cure at lower temperatures just like the rest of the ELT ink series, allowing you to protect the fabrics from ghosting, shrinking, scorching, and dye migration. Preventing these problems will keep you profitable while also separating you from the competition. Instructions are below for preventing dye migration on 100% polyester and sublimated polyester garments.

100% Polyester: Screen print the ELT Digital Black Underbase with 110 monofilament mesh count. One print is usually all you need before flashing and printing the additional colors on top. Depending on the top color(s) you plan on printing, you may want to print them once or twice.

Sublimated Polyester: Numerous printing techniques may be sufficient in preventing dye migration on items such as digital camo or striped uniforms. Print, flash, and print the ELT Digital Black Underbase for maximum dye migration protection. Additionally, print, flash, and print the ELT Series color on top of the underbase for the best result imaginable. Keep in mind that the print will still have a very soft and stretchable feel as the ELT Series inks are not your average plastisol ink.

You may be able to print-flash-print the ELT Digital Black Underbase and simply print one layer of ink on top with very good results. Similarly, you may be able to print the ELT Digital Black Underbase once with a print-flash-print of an ELT Series color on top. Testing these fabrics is critical as every different pattern and color can react very differently with the inks.

Important Notes

This tech sheet includes much more specific information than most of our plastisol inks. This is due to our desire to fully educate our customers leading to better prints and higher sales. With most fabrics, the ELT Series is best when cured between 270°F and 280°F. When pushing the limits of ELT Series to a 250°F cure temperature, always test your dryer. Utilize our Thermolabels to test at these very low temperatures.

Most screen printers will have significant ink stock on their shelves when they first make the switch to ELT Series. For fabrics such as cotton, poly/cotton, and most nylon, ELT Series inks can be printed with our other ink series. Simply cure the prints at 320°F to be sure all of the inks involved are fully cured. 100% polyester will be best using only the ELT Series inks as the low temperature is very important to the success of these prints.

Always perform a pretest print and test cure conditions on the fabric to be printed to establish the best results. Stir inks vigorously before each use. Viscosity may need adjusting for best results. If there is ever a question about a print job, call us at 800-942-4447. We are always happy to help!

