

LASER-DARK (NO-CUT) LITE

FOR BLACK & DARK COLORED SURFACES

2-PAPER-SYSTEM

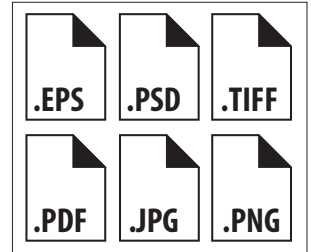
For LED-Printers With & Without White Toner



SUPPORTED FILE FORMATS

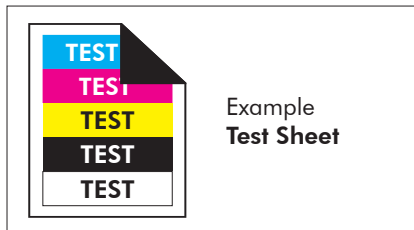
Generally, all common file formats can be used when printing with a White Toner OKI printer on to our transfer media. If you are not using a RIP software, we recommend printing from CorelDraw. CorelDraw can import most of the popular file formats. For example, you can create and save your designs in any Adobe program or create and print directly from CorelDraw. Printing detailed designs from Photoshop requires more effort and is only possible with high-end graphic computers.

PRINTABLE FILE FORMATS:



BEFORE YOU PRINT

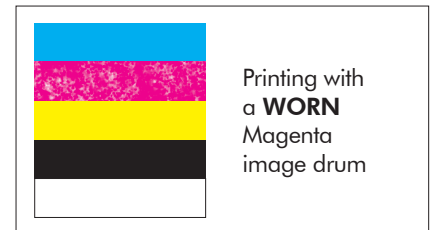
- Switch on your device.
- Go into the Calibration Menu, select **"Reg. Adjust"** and confirm to correct the color registration.
- Print a **test design**, preferably, with the primary colors Cyan, Magenta, Yellow, Black/White (if you do not have one at hand, please refer to our website at www.forever-ots.com)
- A **worn drum** may lead to poor toner coverage. When the message **"Image drum near end of life"** appears, we recommend that you observe the print quality of the respective color closely and to have a spare drum ready just in case.



Example Test Sheet



Printing with **INTACT** image drums



Printing with a **WORN** Magenta image drum

IMPORTANT: FOR CMYK DESIGNS WITHOUT WHITE TONER

Please note the Color Density (on the right) which is needed to achieve optimal results.

100%
100%
100%
100%



PRINTER SETTINGS:

	OKI ES7411WT/ C711WT/PRO7411WT & OKI ES9420WT/ C920WT/PRO920WT	OKI PRO8432WT	OKI ES9541DN OKI C941DN	OKI PRO9541WT	OKI PRO 6410 NEON COLOR & OKI LED CMYK
USE THE MULTI-PURPOSE TRAY FOR FEEDING AND THE REAR OR SIDE TRAY FOR COLLECTING					
PRINT MODE	Transparency	UserType 1	Transparency	UserType 1 / FOREVLDLT	Transparency
PAPER FEED	Multi-Purpose-Tray	Multi-Purpose-Tray	Multi-Purpose-Tray	Multi-Purpose-Tray	Multi-Purpose-Tray
COLOR SETTINGS: CYAN MAGENTA YELLOW WHITE BLACK	0 +2 +1 -3 -	0 0 0 0 -	*Recommended only with a RIP software	0 0 0 - 0	0 0 0 0 0

IMPORTANT! If you use TransferRIP make sure that the printer is set to the factory settings!

IMPORTANT: FOR ES7411WT / C711WT / PRO7411WT - If you have used a different print mode other than "transparent foil", turn off your printer completely for at least 20 Minutes before printing on A-Foil.



RASTERIZING PHOTOS & GRAPHICS FOR A SOFT TOUCH

- Why do we recommend rasterization?

Reason: Even photos or designs with a background can be transferred with Laser-Dark (No-Cut). In this case, we recommend to rasterize the design to achieve a soft touch on the fabric. With the help of a RIP software, you can rasterize your design with a few clicks and benefit from many other features.

A rasterized design on the fabric feels even softer than a screen print and has also extremely good wash-fastness. Since the surface is limited to the raster points, a rasterized print has much better washability than a print with larger or full-scale areas.



TEXTILE SELECTION

- Always select a less stretchy fabric when working with textiles (no spandex or lycra).

Reason: This helps to prevent cracking when pulling or stretching the fabric apart.



TRANSFER PRESS

- If existing, remove the Teflon sheet from the upper and lower plates of your heat press.

Reason: Teflon absorbs too much heat and leads to faulty and inconsistent results.

- Make sure that your silicone pad is faultless and is glued to the lower plate.

Reason: If the upper and the lower plate of the heat presses are not touching each other in a pure vertical movement, but also partially in a horizontal (slide) movement, this may lead to an incomplete transfer of the B-Coating to the A-Foil, especially by large, full-scale designs or pictures. This might happen due to a mechanical fault, where the closing device is worn out, loosened or defect.

- Make sure that the press has reached the set temperature on the heat plate. Leave your Swing-Away press closed until the lower metal plate is hot to the touch.

Reason: Only with sufficient heat on both plates, can you get consistent results. We advise that you keep your Heat Press in the closed position when not in use. This keeps the Lower Plate hot and ready for your next application.

- The bottom silicone pad of your heat press should not be too soft.

Reason: Extremely Soft silicone pads might lead to problems in the separation of A & B Media.

- Always place the transfer media in the middle of your heat press.

Reason: Some heat presses do not have uniform heat and pressure distribution on the edges. The further you go to the edges, the more likely processing errors will occur, due to this lack of pressure on and around these areas.



SEPARATION OF THE A & B MEDIA

- It is necessary to leave the A & B Media on the press during the separation.

Reason: Otherwise, cold air will flow under the media and will cause the transfer to cool down rapidly. If the media cools down too fast, parts of the design may transfer from your A-Foil to the B-Paper which is not desired.

- Do not separate the A & B Media too fast.

Reason: A too fast separation may lead to torn-out areas on round edges or other critical areas in your design.

- Separate the A & B Media in a flat angle with constant motion.

Reason: The media remains flat on the press and the separation works perfectly.

- Please note following information during the separation of print-outs from the OKI ES9541DN/C941DN/PRO9541WT:

The CMYK colors consists of polymer toner. This kind of toner stays longer hot than crushed toner which is used in the other OKI White Toner Printers. Therefore it is important to rub strongly with a piece of textile for 3-5 seconds all over the B-Paper to remove some residual heat, before starting the separation of A and B.



TRANSFER TO THE SUBSTRATE

- Tape all four corners of the transfer (A-Foil) with a heat resistant tape.

Reason: While opening the press or removing the textile from your press, it may happen that the corners of the A-Foil lift up from the fabric. This leads to undesired hot-peeling and to an incomplete and faulty transfer.



AFTER THE PRESS PROCESS

- Peel the A-Foil when absolutely cold.

Reason: If you remove the A-Foil while still warm, it will lead to an incomplete and faulty transfer.



WASHING

- Up to 40°C (cold wash cycle). Do not use fabric softener or liquid detergent. **Do not tumble dry.**



STORAGE

- Please store the unprinted media away from dust, moisture and heat.
- The printed A-Foils can often be stored for several months, when not scratched or bent.
- The married transfers can also be stored for longer, when protected from dust, moisture, heat, scratches and bending.
- We recommend that you store the media in airtight sealable bags and in a box protected from sunlight (e.g. original packaging).



1. PRINT

- Print your design in **Mirror Image Mode** onto the **Matt Side** of the **A-Foil**.



2. HEAT PRESS

- Place the **A-Foil** in the middle of the lower plate (Printed side **facing up**).
- Place the **B-Paper Lite** on top of the A-Foil (coated side **facing down**).
- Cover with a sheet of **Silicone or Baking Paper**.

The **B-Paper Lite** is cut slightly smaller than the **A-Foil**. This prevents your transfer press from becoming dirty.

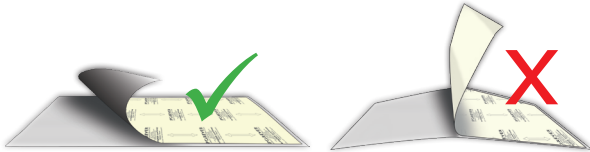
NOTE: It is possible that on unprinted areas some kind of white spots are appearing after pressing it with the B-Paper. To avoid that, put 5 sheets of normal copy paper onto the B-Paper Lite.



3. TRANSFER B-PAPER LITE TO A-FOIL

- Press the A-Foil & B-Paper Lite together at **150°C (300°F)** for **45-60 seconds** with **2-3 bar (29-43.5 psi)** medium pressure.

Increase the time to **75-90 seconds** for full-scale **White Toner & CMYK designs** (see **TABLE 1**).



- Separate the B-Paper Lite from the A-Foil without lifting them up from the lower plate of your heat press. Please work in a **SLOW, LOW & FLUID MOTION**.

- Cut around your design to remove the coating frame caused by the bleeding of the B-Paper Lite.



4. APPLICATION TO TEXTILES & OTHER SUBSTRATES

- Place the textile or another substrate on the lower plate of the heat press.
- Fix the transfer** by taping the corners of the A-Foil with **Heat Resistant Tape**.
- Press using the parameters shown in **TABLE 2**.
- Remove the A-Foil after it is **completely cold**.



5. FIXING

- It is important to **repress** the transfer properly to **soften the touch** and **increase the washability**.
- For a **Matte Finish** use our "**FOREVER Matte Finish Economy**" and press for 1-2 seconds with temperature and pressure as indicated in **TABLE 2**.
- For a **Glossy Finish** use our "**FOREVER Glossy Finish**" Paper and press for 1-2 seconds with temperature and pressure as indicated in **TABLE 2**.

As the B-Paper Lite was especially **developed for merchandising products only**, it is **not recommended** for products and materials, **which need to be highly washing resistant**. It is also not recommended to use on highly flexible or stretchable materials.

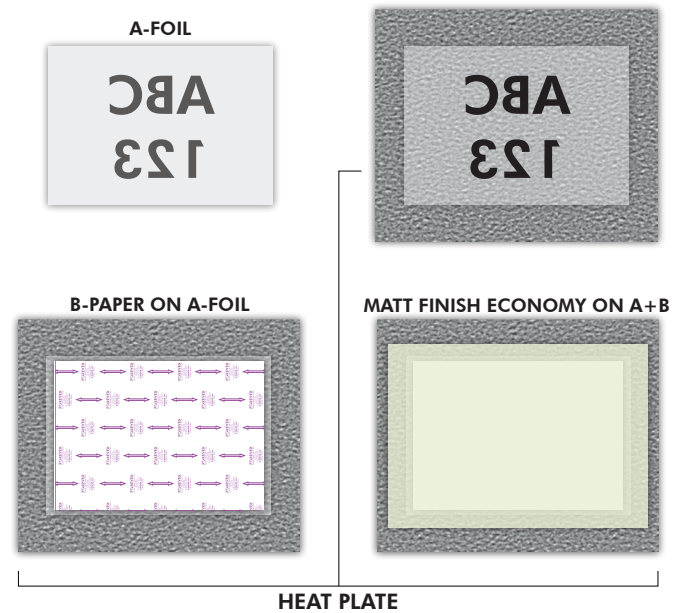








TABLE 1: B-PAPER LITE TO A-FOIL

	°C °F		
OKI WHITE TONER	150°C 302°F	45 - 60 sec. 75 - 90 sec.	2 - 3 Bar 29 - 43.5 PSI
CMYK	150°C 302°F	75 - 90 sec.	2 - 3 Bar 29 - 43.5 PSI

IMPORTANT: Different CMYK printer manufacturers use different types of toner. The settings above are only reference values! Finding out the optimal temperature and time requires experimentation.





TABLE 2: TEXTILES & OTHER SUBSTRATES

	°C °F		
COTTON	100 - 150°C 212 - 302°F	1-5 sec.	2 - 3 Bar 29 - 43.5 PSI
POLYESTER	120 - 130°C 248 - 266°F	1-5 sec.	2 - 3 Bar 29 - 43.5 PSI
POLYPROPYLEN	105°C 220°F	1-5 sec.	2 - 3 Bar 29 - 43.5 PSI
BLEND FABRIC	120 - 130°C 248 - 266°F	1-5 sec.	2 - 3 Bar 29 - 43.5 PSI
PAPER/CARTON	100°C 210°F	1-5 sec.	1 - 2 Bar 14.5 - 29 PSI
BOOK COVERS	110 - 120°C 230 - 250°F	1-5 sec.	1 - 2 Bar 14.5 - 29 PSI





FINISHING WITH HOT STAMPING FOILS

ONLY FOR LASER-DARK (NO-CUT) A-FOIL & B-PAPER AND ALSO A-FOIL & B-PAPER **LITE**

TRANSFER SETTINGS (B-PAPER) (TABLE 3):

	 °C / °F	 L	
B-PAPER TO A-FOIL	150°C / 310°F - 160°C - 320°F	90 - 120 sec.	2-3 Bar / 29-43.5 psi / medium pressure
TRANSFER ON THE SUBSTRATE WITH B-PAPER	150°C / 310°F - 160°C - 320°F	5 - 10 sec.	2-3 Bar / 29-43.5 psi / medium pressure
HOT STAMPING FOIL WITH B-PAPER	150°C / 310°F - 160°C - 320°F	50 - 55 sec.	5 Bar / 72.5 psi / high pressure

TRANSFER SETTINGS (B-PAPER **LITE**) (TABLE 4)

	 °C / °F	 L	
B-PAPER LITE TO A-FOIL	150°C	45 - 60 Sec.	2-3 Bar / 29-43.5 psi / medium pressure
TRANSFER ON THE SUBSTRATE WITH B-PAPER LITE	100 - 150°C / 212 - 310°F	1 - 5 Sec.	2-3 Bar / 29-43.5 psi / medium pressure
HOT STAMPING FOIL WITH B-PAPER LITE	100 - 150°C / 212 - 310°F	10 Sec.	5 Bar / 72.5 psi / high pressure

HSF FINISHING WITH HOT STAMPING FOILS:

PREPARATION OF THE TRANSFER:

- **Print** your design using **CMYK BLACK** (4-Color-Black*) & **Press** with B-Paper (see table 3).
- **Separate** the B-Paper from the A-Foil while **HOT**, in a **Slow, Low & Fluid Motion**.
- **Cut** around your transfer to remove the coating frame.

TRANSFER TO TEXTILE

- **Place** the transfer on your textile & **press** together (see table 3).
- **Wait** until the **textile has completely cooled down**, BEFORE removing the A-Foil!

APPLYING THE HOT STAMPING FOIL

- **Place** the desired sheet of Hot Stamping Foil on your design, cover it with a sheet of **Matt Finish Economy** & **press** together (see table 3).
- **Wait** until the Hot Stamping Foil has **completely cooled down**, BEFORE removing.

DURABILITY AND WASHABILITY

• B-PAPER:

Wash resistant up to 40°C (Cold Wash Cycle).

• B-PAPER **LITE**:

40°C Hand wash. As the B-Paper Lite was especially developed for merchandising products only, it is not recommended for products and materials, which need to be highly washing resistant. It is also not recommended to use on highly flexible or stretchable materials.

TIP: Use a textile to rub over the finished design to remove left-over HSF particles!

* 4-Color-Black consists of 100% Cyan, 100% Magenta & 100% Yellow!



ATTENTION: We recommend Swing-Away and Pneumatic Presses! It is important to use heavy pressure for the best results!

ATTENTION: Before you start your **mass production**, we recommend you to conduct **print and wash tests on all materials**. **Important note about double-sided printing on textiles:** T-shirts that receive a **design** on the **front AND back**, you must place over the heating plate of your transfer press. This way, only one side of the textile is treated with heat, and you avoid pressing out the design that was applied first.