

# LUMINARIS<sup>200</sup>

## Simply-Peel Media Step A&B Transfer Paper Instructions

Ricoma's Luminaris 200 Simply-Peel Media Step A&B Transfer Paper allows you to effortlessly transfer prints from the Luminaris 200 White Toner Transfer Printer, including white and fluorescent color prints onto various garments, particularly dark fabrics. Through a 2-step process, the white adhesive is applied, enhancing print color and ensuring superior adhesion to your garment. This results in maximum durability, opacity, and vibrancy on your final product. Incorporating rasterization and breathability into your design, along with utilizing the garment color as a mask, amplifies the stretch limit and softness of the finished product.

For optimal results, the **default pressing temperature** for the Luminaris 200 Simply-Peel Media Step A&B Transfer Paper is set at **310°F/154°C**. It's essential to exercise caution when pressing onto certain synthetic materials like nylon or polyester, as these may require special attention. **Spandex or Lycra material is not recommended at this default temperature.** To preserve vibrancy and prevent damage from excessive heat, a **lower pressing temperature of 250°F/120°C** onto the substrate is advised.

The Luminaris 200 Simply-Peel Media Step A&B Transfer Paper operates as a weed-free system, streamlining your production process by allowing detailed, high-quality images without the hassle of weeding.

### Finished Garment Care:

- Your finished garments can endure up to 50 washes, depending on the laundering method.
- For optimal results, it's recommended to wash finished garments inside out in cold or warm water with low agitation.
- Avoid using fabric softener.
- Opt for a tumble dry on a low setting, and for best results, consider hanging to dry.
- If ironing is necessary, place a piece of kraft paper between the pressed image and the hot iron to prevent a melted transfer.

### Compatibility and Usage:

- The Luminaris 200 Simply-Peel Media Step A&B Transfer Paper is designed for use with the Luminaris 200 White Toner Transfer printers and is compatible with various color laser printers (please check with your printer manufacturer for compatibility).
- White toner-enabled printers are highly recommended for optimal results.
- The set consists of a 'Transparent Transfer Sheet' and an 'Adhesive Sheet.'

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### Instructions for Best Results:

1. Insert the transparent transfer sheet, with the coated, rough side as the print side, into the appropriate tray of the Luminaris 200 White Toner Transfer Printer.
  - a. **Tip:** If feeding multiple sheets simultaneously, stack them in the tray to ensure a clean paper pull.
  - b. Never run the adhesive sheet through your printer to avoid potential fuser failure.
2. Print the image.
3. **Preheat the press to 310°F/154°C** and keep it closed for at least **5 minutes** before heating up the lower platen.
  - a. **This step is crucial for ensuring a strong bond during the marrying process. Do not proceed until you feel heat radiating from the bottom of the press platen.**
4. **Place the printed image in the middle of the press** with the printed side facing up.
  - a. Position the adhesive sheet on top of the print, adhesive-coated side down, ensuring the image and adhesive are face-to-face.
  - b. Adhesive side is the non-marked, smooth, coated side.
  - c. **Tip:** Fold a small corner of the adhesive sheet over before pressing for easier peeling.
5. **Cover the sheets with kraft paper** and press them together in the heat press at 310°F/154°C for 120 seconds with medium pressure.
  - a. For heavier, denser images, consider pressing at 330°F/165°C, extending the pressing time (20 seconds more), or increasing dwell time before peeling for a clean adhesive pull.
6. **Open the press immediately**, rub the sheets with a piece of textile for 5 seconds, then peel the adhesive sheet away diagonally in one slow, low, and fluid motion while still hot.
  - a. To minimize heat loss, peel on the press using heat-resistant gloves.
  - b. **Tip:** Begin the peel from the side of the image with the greatest toner density and slow down at the end to avoid losing the last edge of the graphic.

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7. **Inspect the used adhesive sheet.** Any design remnants on it indicate an incomplete pull. Discard the used adhesive sheet.
  - a. Examine the transfer sheet for acceptability and proceed to **Step 9**.
8. **Trim excess adhesive from the edges** of the transparent transfer sheet using scissors or a cutting board to prevent it from sticking to the garment and eliminate the chance of a white box around your design.
9. **Place or thread your garment on the press.** Position the transfer sheet (print side down) onto the garment.
  - a. It's recommended to use heat-resistant tape to secure the sheet to the garment to prevent premature lifting.
  - b. **For precise placement**, lay the garment out on a table, position the transfer sheet, and tape the corners before placing on the press.
10. **Cover the transfer sheet and garment with kraft paper** and press the garment using a heat press at 310°F/154°C for 30 seconds with medium-high pressure for cotton textiles.
  - a. Press at 265°F/129°C for 100% poly or 285°F/140°C for 50/50 cotton/poly.
  - b. If necessary to avoid dye migration on polyester fabrics, prevent damage to delicate textiles, or retain vibrancy, press as low as 250°F/121°C.
  - c. **Tip:** Pressing at a lower temperature will result in a more vivid final product.
11. Carefully remove the garment from the heat press and lay it flat. Allow it to cool for at least **5 minutes**.
12. **Once the garment is completely cooled**, carefully peel away the transfer sheet in one smooth, continuous rolling motion.
  - a. Peel within 60 minutes or less.
  - b. Use ice packs if necessary to speed up the cooling process.

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13. **Re-press the image** into the garment for wash durability.
  - a. Place the textile back on the heat press.
  - b. Cover with kraft paper for a matte finish.
  - c. **Re-press the image for about 20 seconds at 310°F/154°C** or the original pressing temperature (if lower) to help retain vibrancy. **A hotter post-press may dull the pressed image.**
  
14. **Wait 10 seconds before removing** the fixing or kraft paper to avoid any part of the transfer sticking to the kraft sheet.
  - a. **Pull slowly in one smooth, continuous motion.** It's crucial to wait before pulling the paper off to prevent pulling the design off.
  - b. **While garment is still hot and on the press,** lightly stretch the material to allow the toner to soak into the fabric to avoid cracking.

### TECH TIPS – Enhancing Your Process:

To ensure precision, consider the following adjustments:

- **Type of Image:** Recognize that press times may vary based on the complexity of your image—photos or full-color graphics may necessitate longer press times than vector images or text.
- **Garment Specifics:** Different fabrics respond uniquely to heat. While these guidelines cater to cotton garments, opting for less stretchy fabrics can minimize the risk of image cracking over time.
- **Toner Coverage:** Maintain a minimum of 70% toner coverage, especially for halftones. Incomplete coverage might lead to challenges in transferring the adhesive.
- **Heat Press Variations:** Different heat presses may require slight modifications in temperature and duration. The instructions provided are tailored for use with a Ricoma Heat Press.
- **Paper Selection:** Strictly use kraft paper designed for heat press applications. Using alternatives may result in the image adhering to the paper.

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**During Step 6**, placing the adhesive sheet on top is crucial due to:

- The top-down heat source directly transferring heat to the adhesive sheet.
- The top sheet's tendency to curl when pulled apart. If this were the transfer sheet, placing it on your garment could be cumbersome and risk damaging the image when hot.

**In Step 7**, note that denser images make A & B sheet separation more challenging. Starting with less dense images is advisable, as full-coverage images may require a longer press time and/or higher temperature.

**If images aren't peeling cleanly in Step 8:**

- Ensure you're printing the right amount of white.
- Preheat the bottom platen for a sufficiently hot press.
- Leave sheets on the press during separation to avoid cold air interference.
- If issues persist, consult the Humidity and Storage sections below.

**For adjusting the heat press temperature in Step 11 to accommodate delicate materials**, increase the temperature to 310°F / 154°C during Step 6 for proper adhesive transfer.

**Additional Tips:**

- For Polyester, Cotton/Poly blends, and hoodies, press the garment at 250°F / 121°C for 20 seconds, then cool and peel tightly. Repress for 15 seconds and cool immediately.
- For Mylar Balloons, after the marrying step, press the substrate for 10 seconds at 190°F / 88°C with medium pressure.

**Humidity and Storage:**

- If transfers are incomplete, your adhesive sheets may be affected by humidity. Place the sheets face up in the hot press (open) for 1-2 minutes before proceeding.
- To prevent humidity affecting the adhesive sheets, store them in a resealable bag with a silica pack or use a dehumidifier.

**Optimal Conditions:**

- Humidity: 45% - 65%, regulated with A/C, humidifier, or dehumidifier.
- Temperature Range: 50°F / 10°C - 75°F / 24°C.

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### Transfer Sheet Storage:

- If static electricity causes sheets to stick, store in an antistatic bag with a dryer sheet. Fan out the paper before loading it into the printer.

### Halftones Correction:

- Print white on top of color or run the sheet through the printer for a second pass to enhance toner coverage and adherence.

### Caution for Different Fabrics:

- Coatings on textiles and synthetic fabrics vary, so test adhesion and washability. Wash garments inside out in cold or warm water, avoiding fabric softener, and tumble dry on low setting. Use kraft paper during ironing to prevent melted transfers.