

Cookbook



# Customized Clothing with HP Latex Printers



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# 1 Overview

Who can benefit from reading this document?

This document is intended for:

- Owners and operators of any HP Latex Printer, with special focus on the HP Latex 110 Printer, the HP Latex 300 series printers and the HP Latex 500 series printers.
- HP Latex customer support, marketing and sales organizations

This document provides information about:

- The process to transfer a “heat transfer material” to clothing, including printing on an HP Latex Printers, cutting with a contour cutter, weeding the excess of material and transferring the material to the fabric.
- A list of heat transfer materials that have been tested to guarantee good printability and good transfer to the fabric.
- Washing resistance of transferred materials, when available.

## 2 Introduction to “Customized Clothing”

HP Latex Printers can print onto standard “heat transfer material” available in the market for inkjet printing. This is a material which usually consists of a liner, a heat-sensitive adhesive and the printable material itself, which is usually made of PVC or PU. This material should be printed with the provided “media profiles” from HP and run through a contour cutter to get a “kiss cut” (cut which does not reach the liner itself). Immediately after, the weeding process can start, which consists of removing the excess of material which we don't want to transfer to the fabric. The cut material is then ready to be transferred to a fabric: this is usually done with an “applicator tape”, which allows for the different pieces to keep its relative position, as well as to be placed on the right side for the transfer. The application tape is placed onto the fabric and the hot-press is run with the right specifications determined from each media vendor in their corresponding Data Sheet: time and temperature are the two main parameters, always keeping the right level of pressure.

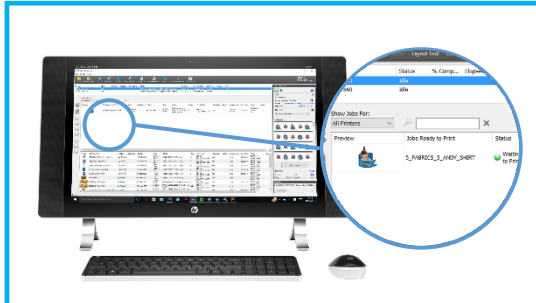
Each heat transfer material has its specific fabrics where it can be transferred (polyester, cotton, nylon...). Check the corresponding Data Sheet of the different materials, to learn about these compatibilities.

### 3 Certified heat transfer materials

HP has certified several brands of heat transfer materials and profiles are available at HP's media locator ([www.printos.com/ml/#/medialocator](http://www.printos.com/ml/#/medialocator)) or directly downloadable from the HP Latex printer's front panel. Here is a table with information on how to use these materials. More updated and specific information can be obtained at [www.chemica-us.com](http://www.chemica-us.com):

	CHEMICA Clearprint	CHEMICA Aprint 1718	CHEMICA Bestprint (formally EasyPrint) 1702	CHEMICA Hotmark Print 1792
<b>Composition</b>	Polyurethane	Vinyl	Vinyl	Polyurethane
<b>Compatible with</b>	100% cotton 100% polyester Poly/cotton blends	100% cotton 100% polyester Poly/cotton blends	100% cotton 100% polyester Poly/cotton blends	100% cotton 100% polyester Poly/cotton blends
<b>Cutting blade</b>	Standard	Standard	Standard	Standard
<b>Application Tape</b>	No need	ATT450	BY HAND or ATT450	ATT450
<b>Pressure (in hot press)</b>	Medium	Medium	Medium	Medium
<b>Temperature (of hot press)</b>	160°C / 320°F	120°C / 248°F	160°C / 320°F	160°C / 320°F
<b>Time (in hot press)</b>	20s	20s	20s	20s
<b>Removal of application tape</b>	Cold	hot	hot	hot
<b>Washing</b>	40°C / 104°F	40°C / 104°F	60°C / 140°F	60°C / 140°F
<b>Printers</b>	300 & 500	300 & 500	300 & 500	300

## 4 How to obtain a “customized clothing”



1. [Design your file with HP Signage Suite and send it to the printer... and to the contour cutter!](#)

- Use the RIP to send the file. It has to include both the printing file and the contour cut file (to be detected when designed as a Pantone color).
- A printing file will be sent to the HP Latex Printer and a “cutting file” will be sent to the contour cutter



2. [Print the file with a heat transfer material](#)

- Download the “media preset” for your substrate through the “online search” in the printer’s front panel
- Look for any of the media on Table 1 online to get their printing profiles.



3. [Send the “cutting file” to the large-format contour cutter](#)

- A “kiss cut” will cut the printed material (vinyl or polyurethane) up to its plastic liner
- A cutting force of 100 gr and a speed of 31 ips is a good starting point, especially for PU based materials.



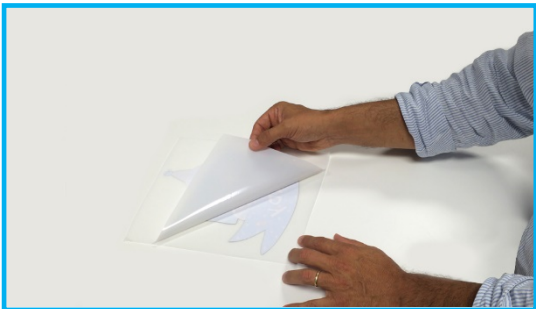
[Remove the unprinted material from its liner \(weeding\)](#)

- A “weeder pick tool” is very helpful for the removal of small pieces of material



4. [Apply an “application tape” to the image](#)

The print needs to be printed-side-up when applied to the T-shirt



5. [Remove the original “clear carrier” from the print](#)

- The print is now ready to be directly transferred to the T-shirt



6. [Just place this “sandwich” into the heat press](#)

- Every material has its specific temperature and transfer time.
- Check Table 1 to know the exact parameters for your transfer material.



7. [Apply heat and pressure to the print](#)

- Every material has its specific temperature and transfer time. Check its Data Sheet for specific info



8. [The T-shirt is ready for use](#)

- Customize your T-shirts, sweaters, tote bags, aprons and more