



Product Reference Guide

Printable and Computer Cut Heat Transfer Solutions



Since 1983 Chemica has developed a wide range of products designed for the visual communication, screen-printing and textile markets. Designed, manufactured and controlled in St Etienne, France, Chemica first began as an adhesive film manufacturer before quickly specialising in heat-transfer films for textiles.

WHAT IS OEKO-TEX®?

Oeko-Tex® Standard 100 Class I was first introduced in the early 1990s as a response to consumer's specific needs, who were looking for products without risk to health in the textile market.

An Oeko-Tex® certification guarantees that products are harmless to health and are compliant with Class I and Class II of the Standard 100 tests. Oeko-Tex® Certified products can be worn next to the skin and are tested for the following substances: formaldehyde, heavy metals, pesticides, chlorophenols, TBT compounds, arylamine dyes, PVC plasticisers.

Class I - textiles and textile toys for babies and small children up to the age of three (e.g. underwear, romper suits, bed linen, bedding, soft toys etc...)

Class II - textiles which, when used as intended, have a large part of their surface in direct contact with the skin (e.g. underwear, bed linen, shirts, blouses etc...).



Chemica's heat transfer films are designed to adhere on most fabrics such as: sport shirts, t-shirts, raincoats, caps, textile bags, flags, shoes and more.

Chemica uses a high quality glue which allows for the adhesion of transfers to any garment including cotton, acrylic, silk, wool, velvet and leather.

When applying to nylon we recommend Allmark and HotmarkPrint Nylon.

CHEMICA INSTRUCTIONAL KEY





 Thickness Micron / Fibre	 Press Temperature °C	 Press Time Seconds	 Peeling Warm or Cold	 Washing Temperature °C
 Tumble Dry	 Inside Out Ironing	 Oeko-Tex Standard Class I or Class II	 Sizing Roll or Per Metre	





PRINT MEDIA


Create custom t-shirts, hats, jumpers and more with Chemica's range of digitally printable heat transfer material films. Digitally printable using eco-solvent, solvent and latex inks.

POLYURETHANE FILMS

HOTMARK PRINT 1792

 50 Micron
  160°C
  20 Sec
  Hot Peel





 60°C
  Tumble Dry
  Inside Out
  Class I




 500 / 750 / 1500mm x Per Metre

- White matte polyurethane
- Transparent polyester carrier
- Extremely stretchy and soft
- Exceptional print quality

- Suitable Applications**
- Cotton
 - Polyester
 - Acrylic and similar fibres

HOTMARK PRINT SIR 1795





 100 Micron
  160°C
  20 Sec
  Hot Peel





 60°C
  Inside Out
  500 / 750 / 1500mm x Per Metre

- White matte polyurethane
- For sublimation textiles
- Transparent polyester carrier
- Very thin barrier to avoid sublimation inks migration

- Suitable Applications**
- Sublimation fabrics
 - Cotton
 - Polyester
 - Acrylic and similar fibres

HOTMARK PRINT NYLON 1992





 50 Micron
  140°C
  20 Sec
  Hot Peel





 40°C
  Tumble Dry
  Inside Out
  750mm x Per Metre

- Matte transparent polyurethane
- Application on nylon and waterproof materials
- Transparent polyester carrier

- Suitable Applications**
- Coated nylon
 - Cotton
 - Polyester
 - Acrylic and similar fibres

CLEARPRINT 1690





 60 Micron
  160°C
  20 Sec
  Cold Peel




 40°C
  Tumble Dry
  Inside Out
  750mm x Per Metre

- Matte transparent polyurethane
- Transparent polyester carrier
- Mirror print
- Eliminates need for weeding
- Soft touch
- High print quality
- Bright colours

- Suitable Applications**
- Light coloured fabrics
 - Cotton
 - Polyester
 - Acrylic and similar fibres

METALPRINT 1780





 85 Micron
  145°C
  15 Sec
  Hot Peel





 Cold Hand Wash
  Inside Out
  480mm x Per Metre

- Metal coated polyurethane
- Paper carrier
- Flexible metallic finish
- Bright colours
- High print quality

- Suitable Applications**
- Cotton
 - Polyester
 - Acrylic and similar fibres

GLITTERPRINT 1720

 220 Micron
  160°C
  20 Sec
  Hot Peel

 40°C
  Tumble Dry
  Inside Out
  500mm x Per Metre

- Polyurethane with white glitter
- Transparent polyester carrier
- Unique finish
- High print quality

- Suitable Applications**
- Cotton
 - Polyester
 - Acrylic and similar fibres

PVC FILMS

EASYPRINT 1702

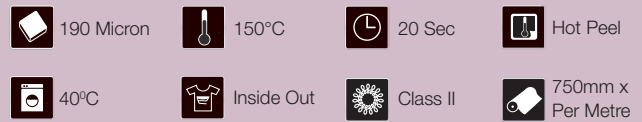


- White matte PVC
- Transparent polyester carrier
- No application tape required
- Exceptional print quality and brilliant colours

Suitable Applications

- Cotton
- Polyester
- Acrylic and similar fibres

EASYPRINT SIR 1712



- Barrier to avoid sublimation ink migration
- For sublimated textiles
- White matte PVC
- Transparent polyester carrier
- High print quality and exceptional colours

Suitable Applications

- Cotton
- Polyester
- Acrylic and similar fibres

SUNMARK PRINT 1710



- White semi matte PVC
- For awnings, tarpaulins and heat sensitive fabrics
- Transparent polyester carrier
- Low-temperature transfer
- High quality, bright application

Suitable Applications

- Silk
- Leather
- Flags
- Awnings



GENERAL INSTRUCTIONS FOR USE OF CHEMICA HEAT TRANSFER FILMS

As you know each textile option is different - whether it be the treatment or condition of application, the result is beyond our control. It is recommended by Chemica and Graphic Art Mart that testing is performed before each use.

- Keep roll at room temperature 24 hours before printing
- Handle printable products with gloves
- Follow the printers user's guide when printing
- Once the product is printed, wait for a minimum of 4 hours to allow inks to dry
- After pressing, wait 24 hours before first washing
- Wash and iron the garment inside out

CHEMICA HEAT TRANSFER MATRIX - PRINTABLE MEDIA

Material	Film	Name	Available Colours	Size	Press
Acrylic (and similar)	PVC	EasyPrint 1702	White	500/750/1500mm	160°C 20 seconds
Acrylic (and similar)	PVC	EasyPrint SIR 1712	White	750mm	150°C 20 seconds
Acrylic (and similar)	PU	Hotmark Print 1792	White	500/750/1500mm	160°C 20 seconds
Acrylic (and similar)	PU	Hotmark Print SIR 1795	White	500/750/1500mm	155°C 15-20 seconds
Acrylic (and similar)	PU	Hotmark Print Nylon 1992	White	750mm	150°C 20 seconds
Acrylic (and similar)	PU	ClearPrint 1690	Clear	750mm	160°C 20 seconds
Acrylic (and similar)	PU	GlitterPrint 1720	White	500mm	180°C 20 seconds
Acrylic (and similar)	PU	MetalPrint 1780	Silver	480mm	145°C 15 seconds
Cotton	PU	Hotmark Print 1792	White	500/750/1500mm	160°C 20 seconds
Cotton	PU	Hotmark Print SIR 1795	White	500/750/1500mm	155°C 15-20 seconds
Cotton	PU	Hotmark Print Nylon 1992	White	750mm	150°C 20 seconds
Cotton	PU	ClearPrint 1690	Clear	750mm	160°C 20 seconds
Cotton	PU	GlitterPrint 1720	White	500mm	180°C 20 seconds
Cotton	PU	MetalPrint 1780	Silver	480mm	145°C 15 seconds
Cotton	PVC	EasyPrint 1702	White	500/750/1500mm	160°C 20 seconds
Cotton	PVC	EasyPrint SIR 1712	White	750mm	150°C 20 seconds
Coated Nylon	PU	Hotmark Print Nylon 1992	White	500mm	150°C 20 seconds
Dye Sub Polyester	PVC	EasyPrint SIR 1712	White	750mm	150°C 20 seconds
Dye Sub Polyester	PU	Hotmark Print SIR 1795	White	500/750/1500mm	155°C 15-20 seconds
Polyester	PU	Hotmark Print SIR 1795	White	500/750/1500mm	155°C 15-20 seconds
Polyester	PU	Hotmark Print 1792	White	500/750/1500mm	160°C 20 seconds
Polyester	PU	Hotmark Print Nylon 1992	White	750mm	150°C 20 seconds
Polyester	PU	ClearPrint 1690	Clear	750mm	160°C 20 seconds
Polyester	PU	GlitterPrint 1720	White	500mm	180°C 20 seconds
Polyester	PU	MetalPrint 1780	Silver	480mm	145°C 15 seconds
Polyester	PVC	EasyPrint 1702	White	500/750/1500mm	160°C 20 seconds
Polyester	PVC	EasyPrint SIR 1712	White	750mm	150°C 20 seconds
To suit awnings and heat sensitive materials	PVC	SunmarkPrint 1710	White	750mm	100°C 15 seconds

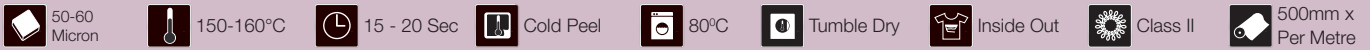
COMPUTER CUT MEDIA

Choose from an extensive range of Chemica Heat Transfer materials in an array of colours, finishes and features, to create custom t-shirts, hats, jumpers and more.

Note: Colours shown are digitally reproduced for display purposes only and are not 100% accurate. For an exact colour match please contact Graphic Art Mart.

HOTMARK

- Matte polyurethane
- For cotton, polyester, acrylic and similar fibres
- Thinnest on the market
- Flexible and stretchable
- Available in 54 colours
- Easy to use - cut, weed and apply



 CHM401 White	 CHM405 Orange	 CHM407 Bordeaux	 CHM441 Pastel Blue	 CHM476 Vegas Gold	 CHM1401 Opal
 CHM403 Black	 CHM456 Tangerine	 CHM459 Plum	 CHM419 Teal	 CHM434 Skin	 CHM452 Pearl
 CHM443 Pastel Yellow	 CHM429 Vivid Red	 CHM470 Lilac	 CHM442 Pastel Green	 CHM454 Caramel	 CHM473 Light Gold
 CHM413 Lemon Yellow	 CHM406 Red	 CHM416 Purple	 CHM455 Apple Green	 CHM415 Brown	 CHM402 Gold
 CHM404 Golden Yellow	 CHM451 Fuschia	 CHM412 Navy Blue	 CHM425 Light Green	 CHM462 Zinc	 CHM411 Fluo Yellow
 CHM484 Sun Yellow	 CHM453 Raspberry	 CHM409 Royal Blue	 CHM410 Dark Green	 CHM472 Mid Grey	 CHM426 Fluo Orange
 CHM474 Mustard	 CHM471 Sweet Pink	 CHM433 Pacific Blue	 CHM418 Forest Green	 CHM424 Grey	 CHM475 Fluo Red
 CHM440 Pastel Orange	 CHM428 Pink	 CHM430 Vivid Blue	 CHM450 Khaki	 CHM458 Anthracite	 CHM432 Fluo Pink
 CHM457 Apricot	 CHM444 Pastel Pink	 CHM408 Light Blue	 CHM414 Beige	 CHM423 Silver	 CHM431 Fluo Green

S.I.R WHAT FOR?

Sublimation inks can be reactivated and then migrate to the heat transfer materials. SIR products contain a barrier against re-sublimation from print sublimated garments.

HOTMARK SIR (SUBLI-BLOCK)

- Matte polyurethane
- For most sublimated textiles
- Total anti-migration barrier



 CSIR710 White

QUICKFLEX

- Matte polyurethane
- For cotton, polyester, acrylic and similar fibres
- Designed to saved you time and money taking just 5 seconds to press
- Ultra-thin, stretchable soft film
- Perfect for layering



	CQF3501 White		CQF3505 Orange		CQF3508 Light Blue		CQF3525 Light Green		CQF3502 Gold
	CQF3503 Black		CQF3506 Red		CQF3509 Royal Blue		CQF3510 Dark Green		CQF3531 Fluo Green
	CQF3513 Lemon Yellow		CQF3529 Vivid Red		CQF3530 Vivid Blue		CQF3524 Grey		CQF3511 Fluo Yellow
	CQF3504 Gold Yellow		CQF3528 Rose		CQF3512 Navy Blue		CQF3510 Silver		CQF3532 Fluo Pink

FIRSTMARK

- Semi matte
- For cotton, polyester, acrylic and similar fibres
- Economical solution
- 100% opacity
- Soft feel, super stretchable
- Easy to cut and weed



	CFM101 White		CFM184 Golden Yellow		CFM106 Red		CFM109 Royal Blue		CFM118 Forest Green		CFM132 Fluro Pink
	CFM103 Black		CFM134 Beige		CFM186 Fire Red		CFM189 Bright Blue		CFM115 Brown		CFM131 Fluro Green
	CFM113 Lemon Yellow		CFM105 Orange		CFM128 Pink		CFM112 Navy Blue		CFM124 Grey		CFM126 Fluro Orange
	CFM104 Yellow		CFM129 Vivid Red		CFM108 Light Blue		CFM110 Dark Green		CFM111 Fluro Yellow		

ALLMARK (FOR NYLON)

- Ultra thin, flexible and stretchable
- Optimised for applications on nylon
- Ideal for school bags, active wear, umbrellas and more

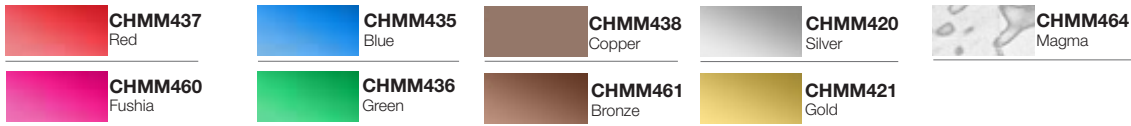


	CAM201 White		CAM203 Black		PMS 871 CAM202 Gold		PMS 877 CAM223 Silver
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HOTMARK METALLIC

- Metal coated polyurethane
- For cotton, polyester, acrylic and similar fibres
- Super thin
- Stretchable

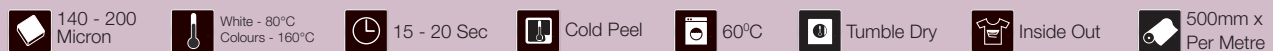
- Metal look with extreme shine
- Available in 9 colours
- Easy to use - cut, weed and apply



GALAXY

- Polyurethane with glitter effect
- For cotton, polyester, acrylic and similar fibres
- 100% opaque

- Perfect for layering
- Smooth touch
- Use with a 60° blade



BLING BLING STAR

- Shining or glittering polyester/aluminium blend
- For cotton, polyester, acrylic and similar fibres
- 100% opaque

- Perfect for layering
- Create stand out graphics
- Available in 10 colours

- Real glitter texture
- Use with a 60° blade



CONFETTI

- Glittering polyester/aluminium blend
- For cotton, polyester, acrylic and similar fibres
- High impact metallic/iridescent colours

- Smooth, glittering effect
- Create faux rhinestone look



REFLEX ECO-SILVER (REFLECTIVE)

- Reflective polyurethane
- For cotton, polyester, acrylic and similar fibres
- Highly reflective
- Use with 60° Sandblast blade



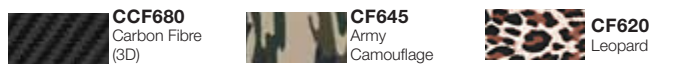
UPPERFLOK

- Viscose flock
- For cotton, polyester, acrylic and similar fibres
- Create a rich, textured, raised, soft velvet touch without the need for embroidery
- Use with a 60° blade



FASHION FLEX

- Printed polyurethane
- For cotton, polyester, acrylic and similar fibres
- Fashion patterns for 3D structure, fashionable range





NYLON HEAT PRESSING

We often have customers ask if we have a product that is an “all in one” to cover applications on nylon, cotton, polyester and acrylic style fibres. The answer is YES!

For those that are conscious of mixing products and using the wrong product for the wrong application, we have products available in both our print and cut portfolios. For a printable option, we recommend Hotmark Print Nylon 1992 and for a coloured cut film, we recommend Chemica Allmark, which is available in black, white, silver and gold.

For these applications it is important to follow these two simple steps below:

1. Identify what the item is made of.

Spray jackets, raincoats, umbrellas and school bags or any other product with a waterproof coating will generally have a nylon component. Be sure to always check the tag, if unsure proceed to step 2.

2. Test the product first.

Obtain a sample of the fabric, pre-press for the recommended 5 seconds then apply your heat transfer samples. Examine for adhesion and discolouration of the fabric.

If you find adhesion isn't optimal there may be a wax coating on the surface of the material, in which case we recommend you wash and dry thoroughly prior to retesting as per the step above.

Remember, nylon presses at a lower heat so whilst it won't eliminate discolouration issues, it should minimise them.

Once you are satisfied with the result, refer to our post press garment care tips and tricks on page 13.

Graphic Art Mart always recommends testing first. Should you have any questions, please contact your local Graphic Art Mart Representative.



CHEMICA HEAT TRANSFER MATRIX - COMPUTER CUT MEDIA

Material	Film	Name	Colours	Size	Press
Acrylic (and similar)	PU	Hotmark	All excluding metallics	500mm	155°C 15-20 seconds
Acrylic (and similar)	PU	Hotmark SIR	White	500mm	155°C 15-20 seconds
Acrylic (and similar)	PU	Quickflex	All excluding metallics	500mm	165°C 5 seconds
Acrylic (and similar)	PU	Metallic PU	All excluding super rainbow	480mm	150°C 10-15 seconds
Acrylic (and similar)	PU	Galaxy	Selected colours	500mm	170°C 15-20 seconds
Acrylic (and similar)	PU	Fashion	Camouflage	500mm	155°C 15-20 seconds
Acrylic (and similar)	PU	Fashion	Leopard	500mm	155°C 15-20 seconds
Acrylic (and similar)	PU	3D Fashion	Black carbon	500mm	150°C 10-15 seconds
Acrylic (and similar)	PU	Reflective	Eco silver	500mm	160°C 20 seconds
Acrylic (and similar)	PU	Allmark	White, black, gold and silver	500mm	150°C 10-15 seconds
Acrylic (and similar)	PVC	Firstmark	All excluding metallics	500mm	150°C 10-15 seconds
Acrylic (and similar)	PET Aluminium	Bling Bling	All excluding mirrors	500mm	160°C 20 seconds
Acrylic (and similar)	PET Aluminium	Confetti	Silver and Gold	500mm	160°C 15-20 seconds
Acrylic (and similar)	Flock	Upperflok	All colours	500mm	160°C 15-20 seconds
Cotton	PU	Hotmark	All excluding metallics	500mm	155°C 15-20 seconds
Cotton	PU	Hotmark SIR	White	500mm	155°C 15-20 seconds
Cotton	PU	Quickflex	All excluding metallics	500mm	165°C 5 seconds
Cotton	PU	Metallic PU	All excluding super rainbow	500mm	155°C 15-20 seconds
Cotton	PU	Galaxy	Selected colours	500mm	170°C 15-20 seconds
Cotton	PU	Fashion	Camouflage	500mm	155°C 15-20 seconds
Cotton	PU	Fashion	Leopard	500mm	155°C 15-20 seconds
Cotton	PU	3D Fashion	Black carbon	500mm	155°C 15-20 seconds
Cotton	PU	Reflective	Eco silver	500mm	160°C 20 seconds
Cotton	PU	Allmark	White, black, gold and silver	500mm	150°C 10-15 seconds
Cotton	PVC	Firstmark	All excluding metallics	500mm	150°C 10-15 seconds
Cotton	PET Aluminium	Bling Bling	All excluding mirrors	500mm	160°C 20 seconds
Cotton	PET Aluminium	Confetti	Silver and gold	500mm	160°C 15-20 seconds
Cotton	Flock	Upperflok	All colours	500mm	160°C 15-20 seconds
Nylon	PU	AllMark	White, black, gold and silver	500mm	150°C 10-15 seconds
Polyester	PU	Hotmark	All excluding metallics	500mm	155°C 15-20 seconds
Polyester	PU	Hotmark SIR	White	500mm	155°C 15-20 seconds
Polyester	PU	Quickflex	All excluding metallics	500mm	165°C 5 seconds
Polyester	PU	Metallic PU	All excluding super rainbow	480mm	150°C 10-15 seconds
Polyester	PU	Galaxy	Selected colours	500mm	170°C 15-20 seconds
Polyester	PU	Fashion	Camouflage	500mm	155°C 15-20 seconds
Polyester	PU	Fashion	Leopard	500mm	155°C 15-20 seconds
Polyester	PU	3D Fashion	Black carbon	500mm	150°C 10-15 seconds
Polyester	PU	Reflective	Eco silver	500mm	160°C 20 seconds
Polyester	PU	AllMark	White, black, gold and silver	500mm	150°C 10-15 seconds
Polyester	PVC	Firstmark	All excluding metallics	500mm	150°C 10-15 seconds
Polyester	PET Aluminium	Bling Bling	All excluding metallics	500mm	160°C 20 seconds
Polyester	PET Aluminium	Confetti	Silver and gold	500mm	160°C 15-20 seconds
Polyester	Flock	Upperflok	All colours	500mm	160°C 15-20 seconds

CHEMICA OVERLAPPING GUIDE

The table below outlines the results of tests Chemica conducted when overlapping their range of computer cut vinyl for heat transfer materials.

A green tick means that overlapping will withstand over 10 machine washes at 40°C.

A red cross means that the results alter after 10 machine washes at 40°C.

A yellow dot means that the overlapping is possible but the heat transfer films may be affected after washing.

A hand means that overlapping is possible with hand wash only and may withstand over 10 washes.

Each product has been heat pressed following its own application instruction which can be viewed on the Graphic Art Mart website under each product's data sheet <http://www.gamart.com.au/chemicaheattransfermedia.aspx>.

NOTE: This chart is a guide only, the results may vary depending on colours. Graphic Art Mart recommends testing is done prior to bulk production.

	HOTMARK	HOTMARK SIR	QUICKFLEX	FIRSTMARK	ALLMARK FOR NYLON	HOTMARK METALLIC	GALAXY	BLING BLING STARR	CONFETTI	REFLEX	UPPERFLOK	FASHION
HOTMARK	✓	✓		✓	✓	●	✓	✗	✗	✓	✓	✓
HOTMARK SIR	✓	✓		✓	✗	●	✓	✗	✗	✓	✗	✓
QUICKFLEX												
FIRSTMARK	✓	✓		✓	✗	●	✓	✗	✗	✓	✗	✓
ALLMARK (FOR NYLON)	✓	✓		✓	✓	●	✓	✗	✗	✓	✓	✓
HOTMARK METALLIC	✓	✋		✓	✗	✗	✋	✗	✗	✋	✋	✋
GALAXY	✓	✓		✓	✓	●	✓	✗	✗	✓	✓	✓
BLING BLING STARR	✓	✓		✓	✓	●	✓	✗	✗	✓	✓	✓
CONFETTI	✗	✗		✓	✗	●	✓	✗	✗	✗	✓	✗
REFLEX	✓	✓		✓	✓	●	✓	✗	✗	✓	✓	✓
UPPERFLOK	✓	✓		✓	✗	●	✓	✗	✗	✓	✗	✓
FASHION	✓	✓		✓	✓	●	✓	✗	✗	✗	✗	✗

ADDITIONAL LAYER

✓ Overlapping withstands 10 machine washes at 40°

✋ Overlapping is possible with hand wash only

✗ Overlapping is not possible

● Overlapping is possible but washing may affect the films



HEAT TRANSFER GARMENT MAINTENANCE

We are often asked the best way to maintain the integrity of a heat transferred garment once it has been applied. Depending on the durability of each individual product, here are our top tips for getting the maximum life out of your newly pressed garment.

1. Allow a minimum of 24 hours post pressing time before completing any of the processes outlined below.

2. Imagine your garment saying:

“If you’re going to wash me, wash me inside out.
If you’re going to dry me, dry me inside out, in the shade.
If you’re going to iron me, iron me inside out.
Do not tumble dry or dry clean me.”

3. While each product has its own set of specific washing instructions, we understand this can be hard to remember.

Instead, as a simple rule we encourage customers to wash at 40°C or under, which on most smart washing machines is a delicate cycle. This will work on most heat press films, with the exception of metallic films.

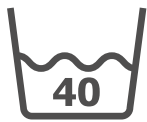
For metallic films, we recommend a cold hand wash only to prevent any fade or degradation of the metallic layer on your graphic.

4. Standard mild washing detergent should be used. We recommend staying away from stain removers, bleaches and soaks. This will prevent accelerated fading of your graphic.

5. While we do have some products that may withstand the temperatures of a clothes dryer, we do not recommend using one. It is ideal to dry your garment inside out, in the shade.



Inside out



Wash at 40°C



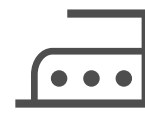
Hang to dry
in shade



Do not
tumble dry



Do not
dry clean



Iron inside
out



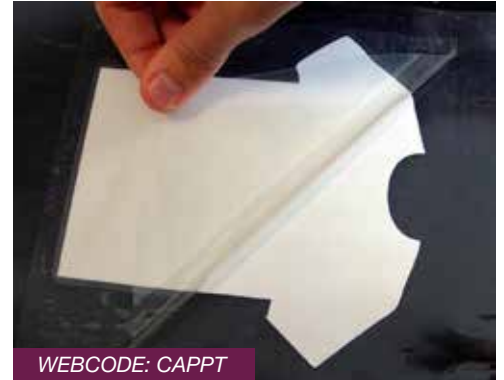
Do not
bleach

ACCESSORIES

ATT 450 - MEDIUM TACK APPLICATION TAPE

Chemica's ATT 450 Application Tape is a medium tack tape that allows you to transfer heat transfer products without difficulty.

It perfectly resists heat pressing and stops air bubbles being trapped. The adhesive is protected by a polyester carrier, so you can be sure your finished graphics do not stick to one another when stored.



WEBCODE: CAPPT

TEFLON SHEETING

Teflon Sheeting is Teflon coated and re-useable at high temperatures (up to 260°C) for long periods of time.

The Teflon coating creates a non-stick surface which avoids sublimation ink migration and the heat transfer graphic sticking to the heat press.



WEBCODE: CTEF

CHEMICA WEEDING HOOK

The Chemica Weeding Hook is a stainless steel high precision tool specifically designed to assist the weeding of Chemica products. Features a unique hook shaped tip that allows you to weed the most detailed designs without any difficulty. You can also use this tool to weed general signage films with ease.



WEBCODE: HOOK