

# CROMÁTICO® Digital

## TECHNICAL INFORMATION

English

Cromatico Digital Transparent's natural translucency is obtained by beating the cellulose fibres (pressure) to achieve a jelly like substance, which is then tinted, drained and dried to give a brightly coloured translucent paper.

Cromatico Digital Transparent is made from paper pulp from well managed forests and has is FSC certified.

The paper is chlorine free and 100% recyclable.

The high beating (pressure) used to achieve the clean transluence makes Cromatico more reactive to humidity and variations in temperature than conventional paper. It is more compact (bulk=0,8) and also less porous and compressible.

Cromatico Digital Transparent gives highly original results and requires special care. A trial is recommended for any delicate production processes.

Herewith some technical advice. For any process not listed here, we recommend a trial.

## CONDITIONS AND USAGE :

Store unopened packs in the press room for a minimum of 24 hours before opening, longer if previously stored in very different conditions.

Ensure that conditions are normal before opening, i.e. temperature 17-23°C (63-73°F), 50% humidity. The paper must be covered with plastic between processes.

## HP INDIGO :

Cromatico Digital Transparent has been specifically developed for the HP Indigo printing process. Ink adhesion is excellent on Cromatico Digital.

Cromatico Digital printed on HP Indigo gives excellent results with dense flat tints and rich blacks. The ink is already dry at the delivery end.

Cromatico Digital is HP Indigo certified:

Cromatico Digital Transparent sheets have a silver strip at each end to activate detector cells in the press. It should be possible

to run the sheets under standard settings provided all sensors are perfectly clean (dust may reduce captor efficiency).

Set the press as follows:

Create a Cromatico Digital Transparent script for each paper weight and record the specific data for each one. Tick "Transparent" in the box at the bottom of the screen to adjust the sensitivity of captors in the press.

Cromatico Digital Transparent

110 G	32 x 46 cm.	Thickness: 0.09 mm.
150 G	32 x 46 cm.	Thickness: 0.12 mm.
200 G	32 x 46 cm.	Thickness: 0.15 mm.

If the paper jams, turn the sheets over (silver strips face down). If the paper still jams, bypass the captors.

Paper feeder:

Do not leave the sheets in the paper feeder for long periods. The paper must be rewrapped between runs. If the paper curls in the paper feeder, turn the stack over.

Duplex printing:

Cromatico Digital Transparent is suitable for duplex printing on

HP Indigo presses. Duplex printing is necessary when Cromatico is being inserted as a section of 8 or more pages. If problems arise, contact us at: [technique@thibierge-comar.fr](mailto:technique@thibierge-comar.fr)

## XEROX IGEN 4 :

Cromatico Digital prints well on iGEN presses but you may need to adjust the settings. In any case, it is better to load the paper in the bottom tray because the circuit is shorter and simpler.

110 g:	Thickness 120. Approximate speed 110 A4/min.
150 g:	Thickness 120. Approximate speed 80 A4/min.
200 g:	Thickness 150. Approximate speed 80 A4/min.

Shiny streaks parallel to the long side of the paper may appear on some runs. These streaks are due to excess oil and will disappear after a while.

## MGI DP 60, KODAK NEXPRESS M700 et KONICA :

Cromatico Digital Transparent prints very well on MGI DP 60, Kodak Nexpress M700 and Konica presses.

## PHOTOGRAVURE :

The use of under color removal technique will reduce drying times. A 133-150 L.p.i. screen is optimum, maximum is 200 L.p.i. screen.

## OFFSET PRINTING :

Air sheets during loading.

As for all papers, best results are obtained by printing across the grain. Tracing paper is very dense and non absorbent, to avoid long drying times, use fully oxidising inks as used for plastics. 1-2% of a drying agent can be added to the ink.

**Our advice :** Excessive dampening slows ink drying and can make the paper fan out. Avoid large areas of solid colour. Reduce dampening to a minimum, using a slightly acid solution pH 5-6.

13-15 % alcohol may be used. Use ink absorbers in the margin if possible. Apply maximum pressure. Tracing paper is a very dense paper, scarcely more porous than a film. Conventional inks require longer drying times. Airing the sheets speeds up the oxidation of the ink. Sealing with UV varnish can reduce the risk of set-off. Sudden changes in temperature can cause curling. Avoid high temperature drying operations. Restrict racks to 4-5 cm and use fine powder (15-20 microns) to prevent set-off. Allow sufficient drying time before the next operation.

When using metallic inks (gold, silver) and opaque white, two light passes give better results.

## OFFSET PRINTING WITH UV INKS AND DRYER :

This technical dries the ink immediately and eliminates set-off. Make sure that the UV dryer is equipped with a thermal filter to control the temperature.

## SILK SCREENING :

Cromatico allows use of very fine screens.

**Our advice :** Water based inks must be applied sparingly and high temperature drying should be avoided.

## LASER COPYING (B & W AND COLOUR) :

Laser printing and copying in general give excellent results on the smooth surface of translucent paper. However, with high-speed machines, the heat may cause the paper to curl and jam the machine. A trial is recommended.

## INK JET PRINTING (B & W AND COLOUR) :

Ink jet printing gives good results, particularly on machines of a recent design which use a very fine spray. On older models, the ink may take a few extra seconds to dry. A trial is recommended.

## FOIL STAMPING :

This technique gives excellent results, but requires special care, particularly on 200 gsm.

As Cromatico is not compressible, contact with film must be exact: use a precision ground blade and a platen press in good condition with a resilient material (blanket) on the paper cylinder, instead of card or Bakelite.

**Our advice :** Increase pressure until the paper is on the verge of distortion. Respect the temperature recommended by film suppliers (100-200°C). Use dry film with standard adhesives (HC films from Kurz or 8590 from Oeser).

## VARNISH :

Glossy varnish gives a very elegant contrast with the Cromatico's matt surface. Use a spray or UV varnish. With UV varnish, one application is generally sufficient.

## FOLDING - SCORING - EMBOSING :

Tracing paper is fragile and folds will not stand up to repeated opening and closing. Scoring marks the fold but does not make it

more flexible as it does for conventional papers. To avoid damaging the paper, the channel width and depth must be carefully adjusted and the creasing rule slightly dull. Use a soft cylinder and light pressure.

Tracing paper whitens when distorted, which can heighten the effect of a fold or embossed pattern; But be careful because it indicates a slight weakening of the paper.

**Our advice :** If you decide to fold Cromatico 200 gsm, use a very wide creasing rule (4 pts) on a 4 mm card cylinder, or better still, use double creasing. Scoring is essential for thick tracing paper, but unnecessary for thin papers. Do not apply pressure to the fold. Restrict the depth of the channel.

## PERFORATING - CUTTING :

Tracing paper is suitable for perforation and cut-outs. Cut in small racks, because the paper is very hard and could damage the blade. Laser cutting gives excellent results when the sheets are fed into the machine singly.

**Our advice :** Do not exceed racks of 5 cm thickness.

## TRIMMING :

Tracing paper is a dense , hard paper. A slightly dull but polished 23° - bevel angle blade is ideal to avoid flaking.

**Our advice :** Do not exceed racks of 5 cm thickness.

## BINDING - GLUING :

Tracing paper can be glued, stitched or stapled.

**Our advice :** When the outside fold of a brochure is to be stapled, reinforcing is recommended. Water-based glues tends to make the paper curl. Use glue sparingly, along the grain. Solvent-based glues and hot melts are recommended.

## INSERTS :

Tracing paper may be inserted in coated or uncoated paper, provided that both papers have similar relative humidity (RH 50%) even after printing.

## For any further information :

Please contact us directly : [www.thibierge-comar.fr](http://www.thibierge-comar.fr)  
Or consult your supplier.