

TECHNICAL SHEET

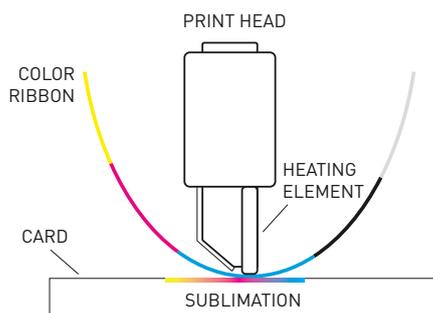
SUBLIMATION TECHNOLOGY COLOR - THERMAL TRANSFER MONOCHROME FOR CARD PRINTING

Evolis printers (excluding Avansia) use dye-sublimation technology - monochrome thermal transfer, otherwise known as D2T2 (Dye Diffusion Thermal Transfer), to graphically customize plastic cards.

A CLOSER LOOK AT THE TECHNOLOGY

- **Dye-sublimation:**

The color ribbon consists of three separate color panels (Yellow, Magenta, Cyan) that are applied to the card one after the other. The ink is transformed into gas and diffused into the top layer of the card. Up to 16 million colors can be created using this procedure.



Card printed with the yellow panel (Y)



Card printed with the magenta panel (M)



Card printed with the cyan panel (C)

- **Thermal transfer monochrome:**

The ink is heated and deposited on the surface of the card.



Card printed with the black panel (K)





QUALITY PRINTING

D2T2 technology provides high-quality printing:

- **Photographic resolution of 300 dpi:** image reproduction is faithful and precise. Management of texts and barcodes with a separate panel in black ensures maximum readability.
- **Edge-to-edge printing:** the whole surface of the card is printed.



MEDIA COMPATIBILITY

Many types of card with the format ISO CR80 - ISO 7810 (53.98 x 85.60 mm) are suitable for dye-sublimation / monochrome thermal transfer technology:

- PVC cards
- Composite PVC cards
- PETF cards
- PETG cards
- Polycarbonate cards with the special Unichroma™(1) ribbon
- ABS(1) cards, etc.

COUNTLESS POSSIBILITIES WITH EVOLIS HIGH TRUST® RIBBONS

To maximize the quality and lifetime of the printed cards, the service life of the print head, and the overall reliability of your printer, use the Evolis High Trust ribbons®.

Ribbon capacity:

- YMCKO ribbon: up to 300 prints/roll
- YMCKO-K ribbon: 200 prints/roll
- 1/2 YMCKO ribbon: 400 prints/roll
- 1/2 YMCKO-K ribbon: 250 prints/roll
- Monochrome ribbon in black: up to 2000 prints/roll
- Monochrome ribbons in red, green, blue: 1000 prints/roll
- Monochrome ribbons in gold, silver: 1000 prints/roll
- Signature panel ribbon: 1000 prints/roll
- Scratch ink ribbon: 1000 prints/roll
- KO ribbon: 600 prints/roll
- SO-KO ribbon: 250 prints/roll
- Hologram ribbon: 400 prints/roll



1. Under specific conditions

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