THERMAL TRANSFER PRINTING

Thermal transfer printing is carried out by printers that use a carbon ribbon to permanently release text, logos, and barcodes onto paper or plastic supports. The use of this type of printing offers significant advantages in terms of reliability and robustness, making it perfectly suitable for industrial environments. The ability to print even a single label avoids unnecessary waste and makes printing costs extremely economical. To achieve the best print quality, it is essential to match the appropriate ribbon with the chosen support. Thanks to high resolution and image definition, thermal transfer has proven to be the most suitable printing method for barcodes, ensuring perfect readability over time.

The materials:

According to different usage needs, we offer various types of materials for the best print performance. All support materials, when combined with the correct ribbon, guarantee quality results.

- Coated and uncoated paper
- PA: Polyamide
- PE: Polyethylene
- PET: Polyester
- PP: Polypropylene
- PVC: Vinyl
- AL: Aluminium
- TNT: Non-woven fabric



Ribbon (carbonate tape)

The ribbon's structure consists of a polyester film with thermofusible ink applied on one side and backcoating, a protective layer that safeguards the printing head from abrasions caused by continuous contact with the film, on the other side. The ribbon must have suitable properties such as conductivity, heat resistance, mechanical and chemical resistance, and print uniformity. There are different types of ink available, including wax, wax-resin, and resin. The choice of ribbon depends on the type of support to be used and the type of printer employed.

The different types of ink for carbon ribbons can be grouped into 3 families:

Wax

- economical solution
- suitable for coated and uncoated papers
- good resistance to rubbing
- possibility to print barcodes rotated by 90°

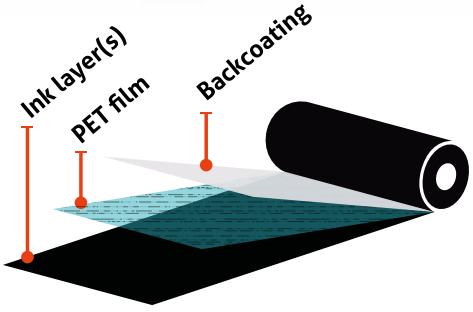
Wax-Resin

- ultra polyvalent, from coated papers to synthetics
- high temperature resistance (up to 100°C)
- good resistance to rubbing and scratching
- high printing speed
- suitable for printing barcodes rotated 90°

Resin

- suitable for synthetic materials (PE, PP, PET, etc.)
- high temperature resistance (up to 250°C)
- excellent resistance to rubbing and scratching
- excellent resistance to solvents
- high printing speed
- excellent printing quality for barcodes rotated by 90°





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