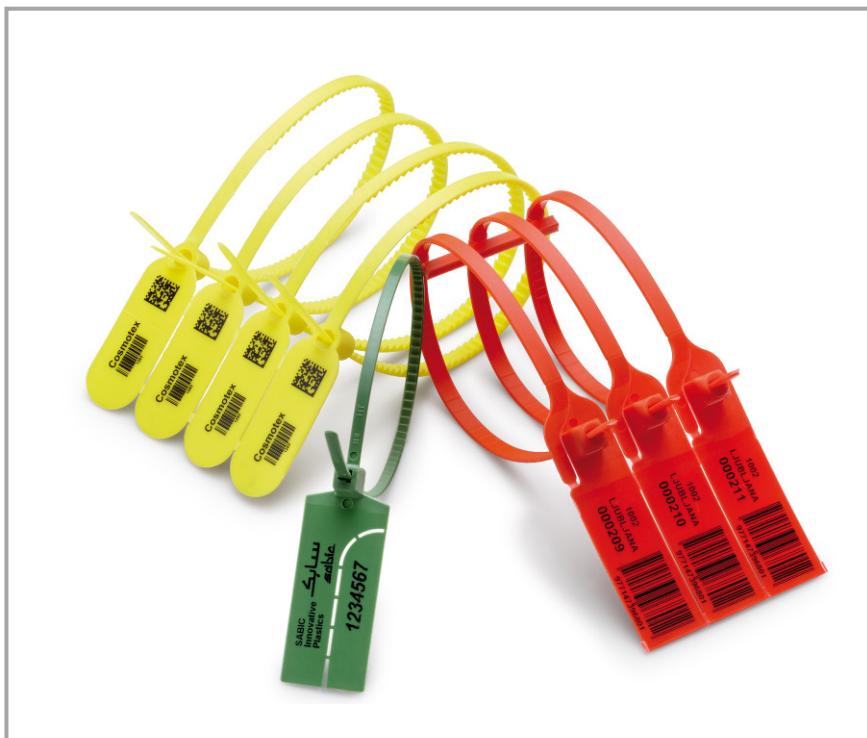


PRINTING ON PLASTIC TAGS AND SEALS

GUIDE TO THE CHOICE OF RIBBONS AND PRINTING METHODS FOR STRONG AND DURABLE PRINTS.



Due to the availability of the new Coditherm **I-ROLLER** you can now get texts very resistant and durable on plastic **Tags and multiple Seals**.

I-ROLLER works with a high-energy **Hot Roller** transfer and is suitable to make resistant prints, maintaining high rate of production.

Depending on the kind of thermal ribbon used is possible to obtain different levels of "durability".

PRINTING WITH ROLLER COATED WITH CONDUCTIVE RUBBER.

The print executed by roller coated with conductive rubber has a broad range of applications on various shape of tags. The heat transfer is, however, a bit less than that which is obtained with the roller entirely metallic.

a) PRINTS OBTAINED WITH A SINGLE PASS.

In this case you print directly on the colored surface of the plastic container. You use the colour **BLACK** if printing on clear surfaces and the **WHITE** colour if printing on dark surfaces.

Printing with the **POSY-Soft** method:

- **ST 130 + 460 Series:** with poor resistance to solvent.
- **ST 130 + 490 Series:** with average resistance to solvent.
- **ST 130 + 440 Series:** with fairly good resistance to solvent.

Printing with the **RINK** method:

- **ST 110 + 800 Series:** with average resistance to scratching and solvents.
- **ST 110 + 850 Series:** with high resistance to scratching and solvents. It requires high transfer temperature.



**b) PRINTS OBTAINED WITH DOUBLE PASS:
TRANSPARENT BACKGROUND + COLOR.**

In this case a transparent receptor of hard resin is used. During the first pass you have to print the transparent background. The second step is performed with the second layer which also includes the colored text (white or black). The result is a "sandwich" which is very resistant to scratching and solvents.

Printing with the POSY-Hard method:

- **ST 020 + 490 Series:** with high resistance to scratching and solvents.



**c) PRINTS OBTAINED WITH DOUBLE PASS:
WHITE BACKGROUND + BLACK.**

In this case the base obtained from the first pass is no longer transparent, but opaque white. The second step is performed with the transparent receptor + color (white or black).

Printing with the POSY-Hard method:

- 1st pass: White **BY 890**.
- 2nd pass: **ST 020 + 490 Series**.

The two stages can be performed in two ways:

- **Whit a single printer:** first you have to print the white background on all tags, then after you have changed the ribbons, you overprint the tags with colored text.
- **With two printers in parallel:** each tag is previously printed with the white background by the Printer 1. Immediately after it is over-printed with colored text, with the Printer 2.



PRINTING WITH METALLIC ROLLER.

The printing done with a integrally metal roller ensures the maximum durability. The high temperature, combined with the excellent transmission of the heat and high pressure, causes the surface of the plastic arrivals to the fusion of the surface layer.

The result is that of a printing area slightly hollowed.

This technique only works with "single pass" method and, at the moment, only with the ribbon **Series 850**.

The plastic must be of low melting temperature type, that is **typically P.E.**

Also the thickness of the plastic must be up to 2 mm max, in order to allow the plastic surface to perfectly adapt to the planarity of the metallic roller.

Print with RINK method:

- **ST 110 + 850 Series:** with very high resistance to scratching and solvents.

