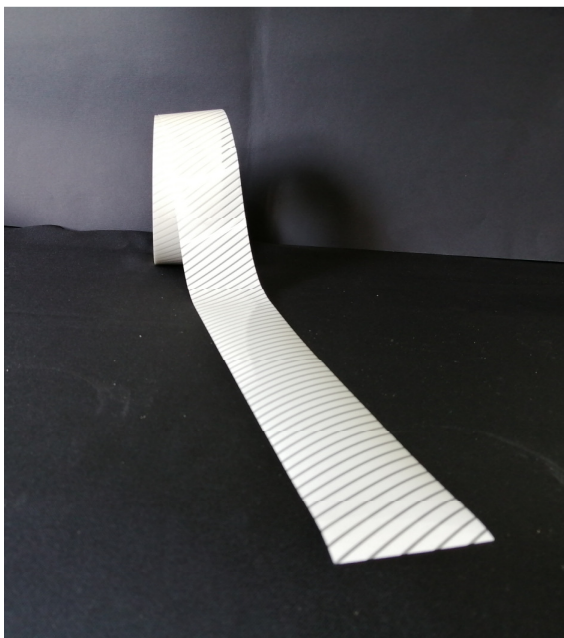


GENERAL CHARACTERISTICS



The product basically consists of segmented microbeads having known reflective index and extremely high refraction power, applied on a thermoadhesive by means of a polyurethane binder with high flexibility and resistance to mechanical and chemical-physical stresses.

RETROLUX TT 100 KISS CUT is a reflective thermotransfer designed for:

- improve the breathability of the finished garment
- keeping the elasticity of the fabric on which it is applied
- offer greater comfort on light clothing (polo shirts, T-shirts, etc.)
- provide a more fashionable look to the garment
- Improve the daytime and nighttime visibility of the garments

PRODUCT COMPOSITION

Front coating: Glass microspheres with constant reflective power
Binder: Aliphatic polyurethane resin.
Thermoadhesive: Co- polyester base.

COLORIMETRY

Cromaticity coordinates (white colour): $x = 0.3335$ $y = 0.3510$ $Y = 55.3$ (luminance factor)

COEFFICIENT OF RETROREFLECTION (0,2/5°): over 75 cd/lux·m²

PHYSICAL PERFORMANCE

RETROLUX TT 100 KISS CUT meet or exceed the minimum reflective values after the following test:

1. Flexing (ISO 7854/A 7500 cycles)
2. Cold Fold (ISO 4675 -20°C)
3. Abrasion (UNI 530/2 5000 cycles)
4. Temperature variance (12 hours at 50°C, 20 hours at -30°C)
5. Rainfall test (Annex A)

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WASHING PERFORMANCES

RETROLUX TT 100 KISS CUT exceed the minimum reflective values after:

25 cycles at 60 °C (ISO 6330)

25 cycles of dry cleaning (ISO 3175-method 9.1)

Wash guideline



Minimum temperature: 30 °C

Maximum temperature: 62 °C

Detergent: Use only **ECE type A** without perborates

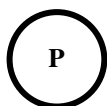


- Optical brightness, perborates or additional bleaches, **reduces washing performances of Retrolux TT 100 KISS CUT**
- **Do not use** organic solvents, chlorine bleaches and alkaline products (pH>8).
- **Do not exceed** 62 °C during wash

Drying Conditions

- Air drying is recommended

Dry cleaning



Use pure Perchloroethylene

ADDITIONAL INFORMATION

The material is supplied in rolls of 50 linear meters length and in all widths from 1 cm till 1 meter. The cut tolerance is ± 1.5 mm.

The thermotransfers of the Retrolux series can be cut with cutting plotters, with dies and with laser.

For the kiss cut, we recommend to make a specific machine adjustment with preliminary tests on the Retrolux reflective transfer, to avoid problems of removing the scraps or dragging the reflective part in the removal of the scraps.

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IRONING:

Use cool IRON (110°C)



NOTICE TO USERS

APPLICATION

RETROLUX TT 100 KISS CUT HAVE GOOD ADHESION TO VARIOUS TYPES OF SUBSTRATES SUCH AS POLYESTER, COTTON, RUBBER, PVC, LEATHER ETC. WATER REPELLENT OR WATERPROOF FINISHES ON THE SUBSTRATE MAY REDUCE THE THERMAL BONDING STRENGTH.

CONDITIONS OF APPLICATION

TEMPERATURE: 150 - 155°C

HEATING TIME: 12-15 seconds

PRESSURE: 3 BAR

NOTES:

The parameters stated above are obtained from internal tests performed on some common types of substrates (polyester/cotton).

The pressure to be used and the heating time are **strictly dependant on the type of plant used and the substrate** on which RETROLUX TT 100 KISS CUT must be applied.

BEFORE HOT MELTING **RETROLUX TT 100 KISS CUT** ON ANY TYPE OF SURFACE PRELIMINARY TESTS MUST BE CONDUCTED TO DETERMINE THE OPTIMUM CONDITIONS OF BONDING.

Lamination method roll to roll with heated calenders, may require completely different conditions then those above mentioned.

PRINTABILITY

The product correctly transferred and in any case without the front liner, can be printed using inks suitable for polyester or other inks, carrying out preliminary adhesion tests.

We recommend the application of the ink with screen printing technique, good results have been obtained with digital printing with ecosolvent inks.

The correct adhesion of the inks must also be verified by subjecting the printed product to repeated washing.

FOR FURTHER INFORMATION CONTACT IRC S.p.A - Italy