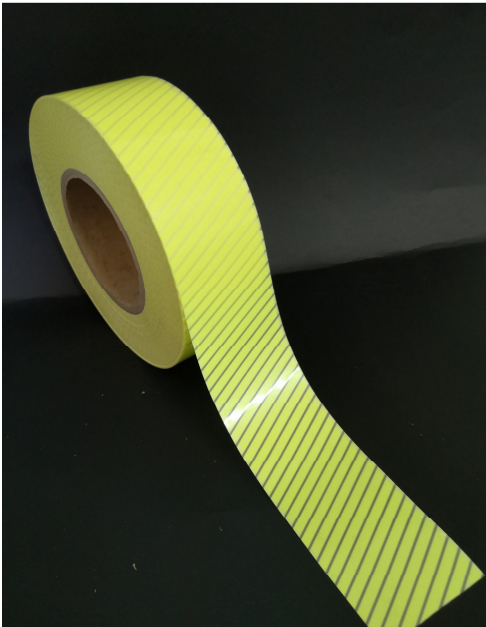


GENERAL CHARACTERISTICS

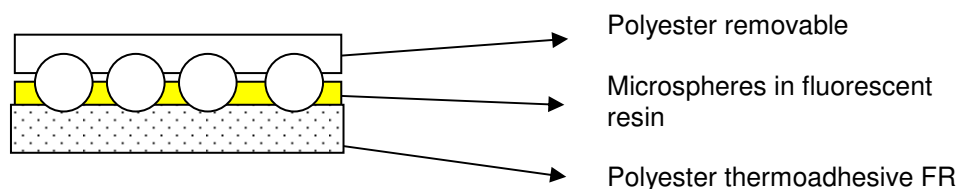


The product basically consists of segmented metallised microspheres, partially incorporated in a removable polyester (front layer) and permanently bonded to a thermoadhesive FLAME RETARDANT (backing layer). The thermoadhesive polyester base provide excellent adhesion to the most common type of fabrics.

RETROLUX TT 900 KISS CUT is a reflective thermotransfer designed for:

- flame retardant garment
- 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 SCHEME (section)



COLORIMETRY

New material: **Y=87.0** **x= 0,370** **y= 0,505**

After xenon test: **Y=80.0** **x= 0,368** **y= 0,484**
(norm EN 471, test method UNI ISO 105 B02)

The colour coordinates and the luminance factor of RETROLUX TT 900 KISS-CUT satisfy all the minimum requirements envisaged by the EN 20471 Norm (combined performance material).

COEFFICIENT OF RETROREFLECTION* (Cd/lux.m²)

Observation Angle	Entrance Angle			
	5°	20°	30°	40°
12'	80-85	85-87	75-78	58-60
20'	73-75	75-77	70-72	58-60
1°	9 -9.7	9.4-9.6	9.3-9.7	8.0-7.8
1° 30'	51-5.6	4.8-5.2	4.4-4.6	3.7-3.8

*The values were obtained from an average of various sets of samples. Reflected colour: white.

The reflective fabric called RETROLUX TT 900 KISS-CUT satisfies all the minimum requirements accordingly EN 20471 Norm (combined performance material)

PHYSICAL PERFORMANCE

RETROLUX TT 900 KISS-CUT satisfies the following features:

1. Colour fastness to dry friction (ISO 105 X12 10 cycles): Index 5
2. Colour fastness to wet friction (ISO 105 X12 10 cycles): Index 5
3. Colour fastness to mechanical washing with synthetic cleaning (ISO C06, C1S test - 60°C without perborates): Index 5

WASHING PERFORMANCES

RETROLUX TT 900 KISS-CUT exceed the minimum reflective values after:

25 cycles at 60°C (ISO 6330)

Wash guideline



Minimum temperature: 30 °C
Maximum temperature: 62 °C

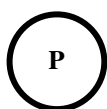
Detergent: Use only ECE type A without perborates

- Optical brightness, perborates or additional bleaches, reduces washing performances of RETROLUX TT 900 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

FLAME RESISTANCE PROPERTIES

RETROLUX TT 900 comby-y KISS CUT satisfies the following requirements:

EN 14116:2015, EN 11612:2015, EN 15614:2007;

Limited flame spread (test method EN 15025):
before and after 25 washing cycles at 60°C

EN 11612:2009, EN 15614:2007 (EN469:2007)

Heat resistance at 180 °C before and after 25 washing cycles at 60°C

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.

IRONING:

Use cool IRON (110°C)



NOTICE TO USERS

APPLICATION

RETROLUX SUPER TT 900 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: 155 - 160°C

HEATING TIME: 12 – 15 seconds

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 SUPER TT 600 must be applied.

BEFORE HOT MELTING **RETROLUX SUPER TT 900 KISS-CUT** ON ANY TYPE OF SURFACE PRELIMINARY TESTS MUST BE CONDUCTED TO DETERMINE THE OPTIMUM CONDITIONS OF BONDING.

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.

STORAGE

Retrolux reflective transfer must be stored in a cool and dry area, we recommend temperatures between 15 and 25 °C and relative humidity less than 70%.

Retrolux reflective transfer must be stored in their original box and used within 1 year of receipt.

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