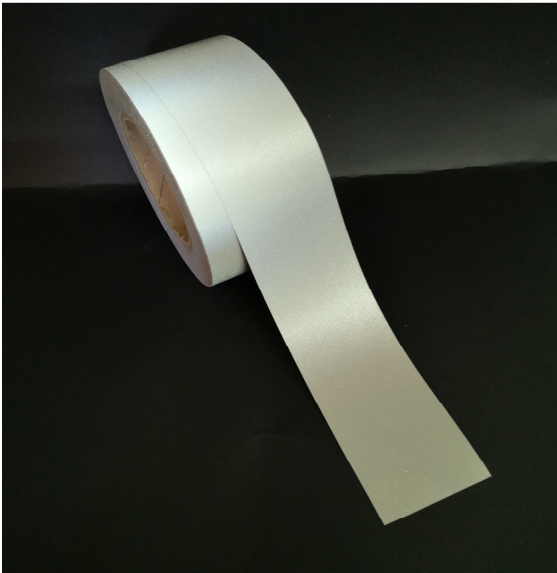


**GENERAL CHARACTERISTICS**



The product basically consists of a fabric coated with metallised microspheres having known reflective index and extremely high refraction power, by means of a polyurethane binder with high flexibility and resistance to mechanical and chemical-physical stresses.

RETROLUX RF 500 is a reflective fabric designed for:

- offer a high resistance of the clothing to repeated domestic washings
- improve the retro-reflection on clothing in conditions of poor visibility

**PRODUCT COMPOSITION**

<u>Front coating:</u>	Glass microspheres metallised	40% of total weight
<u>Binder:</u>	Aliphatic polymerising polyurethane resin.	22% of total weight
<u>Substrate:</u>	Polyester/Cotton fabric with high dimensional stability.	38% of total weight

**COEFFICIENT OF RETROREFLECTION\*** (Cd/lux.m<sup>2</sup>)

Observation Angle	Entrance Angle			
	5°	20°	30°	40°
12'	519-525	542-551	374-442	176-234
20'	330-360	338-366	300-316	159-201
1°	29-44	28-37	22-25	26-39
1° 30'	13-18	10-11	13-21	8-9

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

**The silver grey reflective fabric called RETROLUX RF 500 satisfies all the minimum requirements accordingly EN 20471**

## **PHYSICAL PERFORMANCE**

RETROLUX RF 500 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, ANSI ISEA 107-99 Annex A)

## **WASHING PERFORMANCES**

RETROLUX RF 500 exceed the minimum reflective values after:

**60 cycles** at 60 °C (ISO 6330)

**30 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

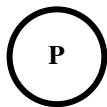


- **Optical brightness, perborates or additional bleaches, reduces washing performances of Retrolux RF 500.**
- **Do not use** organic solvents, chlorine bleaches and alkaline products (pH>8).
- **Do not exceed 62 °C** during wash
- **Do not exceed 120 °C** during drying

### **Drying Conditions**

- Air drying is recommended
- TUMBLE DRY: NOT EXCEED 90°C
- TUNNEL DRY: 100°C is recommended, not exceed 120°C.

### **Dry cleaning**



Use pure Perchloroethylene

### **ADDITIONAL INFORMATION**

The material is supplied in rolls of 50 linear meters length and in all widths from 1 centimeter till 1 meter.

The cut tolerance is  $\pm 1.5$  mm.for

For cutting die cutting is recommended. Reflective fabric can also be hand-cut or guillotined.

**Sewing:** 100% polyester yarn is recommended.

#### **IRONING:**

Use cool IRON (110°C)



### **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**

Laboratory Manager