

DATASHEET RETROLITE

RTL 50 S ELASTIC

DESCRIPTION



RETROLITE RTL 50 S ELASTIC

High quality HV silver 86% polyester – 14% spandex fabric, made of high reflective glass microspheres
It is certified according to UNI EN 20471.

It is also certified according to ISO 6330 2A for 70 domestic washing cycles at 60°C, to ISO 15797 for 10 industrial washing cycles at 75°C and to ISO 3175 for 10 dry cleaning cycles. It ensures stretch properties to any HV garment.

It is a reflective fabric especially designed to:

- ✓ *increase the retro-reflection of the light on garments in low visibility conditions;*
- ✓ *offer high resistance to washings;*
- ✓ *Ensure stretch properties on garments;*

The product is **UNI EN 20471** certified as per certificate No. **N° CO824240009-00-00** released by Centro Tessile Cotoniero e Abbigliamento Spa. It is also certified according to **OEKOTEX STANDARD 100 Class I**.

TECHINICAL SPECIFICATIONS

- ✓ **Total thickness:** 150 Micron
- ✓ **Support fabric:** 86% Polyester – 14% Spandex
- ✓ **Glass Microspheres** with constant refractive value: 1.93
- ✓ **Refraction:** 450 clx 12'/5''

COLORIMETRY

Trichromatic coordinates:

x = 0.309 y = 0.326 Y β = 19.0 (luminance factor Beta)

REFRACTION * (Cd/lux m²)

Observacion angle	Light angle			
	5°	20°	30°	40°
12'	438,1 – 459,9	426 – 430,9	383,3 – 361,2	285,7 – 247,7
20'	302,6 – 319,1	289,7 – 293,9	273,4 – 268,9	224,1 - 204
1°	28,8 – 29,5	35,5 – 36,6	41,1 – 37,2	35,2 – 27,7
1°30'	16,9 - 17	19,4 – 19,8	19,4 – 20,6	22,7 – 19,8

The retro-reflective properties of RETROLITE 50 S ELASTIC comply with the values required by EN 20471 as per certificate released by Centro Tessile Cotoniero e Abbigliamento Spa.

PRODUCT SPECIFIC RESISTANCES

RETROLITE RTL 50 S ELASTIC complies with the values required by EN 20471.

In particular:

1. Bending (ISO 7854/A 7500 cycles)
2. Cold bending (ISO 4675 -20°C)
3. Abrasion (UNI 530/2 5000 cycles)
4. Temperature variations 12 hours at 50°C – 20 hours at -30°C
5. ISO 6330 method 2 A 70 washing cycles at 60°C
6. ISO 15797 – 10 washing cycles at 75°C
7. ISO 3175 – 10 dry cleaning cycles
8. Photometric Rain Performance Test (EN 471 Annex A)

PRODUCT WASH RESISTANCES

RETROLITE RTL 50 S ELASTIC complies with the values required by EN 20471, ISO 6330 2A, ISO 15797 and ISO 3175.

RTL 50 S ELASTIC		
NORM	WASHING CYCLES	WASHINGS TYPOLOGY
ISO 6330/2A	70	Domestic washing cycles at 60°C
ISO 15797	10	Industrial washing cycles at 75°C
ISO 3175	10	Dry cleaning cycles
AVAILABLE FORMATS		
WIDTH	RUNNING METERS	AVAILABILITY
H 50 mm	100 mt	V
H 60 mm	100 mt	V
H 70 mm	100 mt	V
H 1050 mm	50/100 ml	V
Different widths	100 mt	On demand

Detergent: use only ECE detergent, A type, **without optical brighteners or perborates.**

- ✓ Optical brighteners, perborates, or other brighteners, decrease RETROLITE 50 S ELASTIC performances.
- ✓ Do not use organic solvents, chlorine-based brighteners and strong alkaline substances (pH>8).
- ✓ Do not exceed the temperature of 60°C – 75°C during the washing process.

DRYING CONDITIONS

- ✓ Air drying is recommended.
- ✓ TUMBLE DRY: do not exceed 60°C.

IRONING

Ironing: do not exceed temperature of 120 °C.

HOW TO USE

Stitching: 100% Polyester sewing thread is recommended

CUSTOMIZATION

The product can be silk-printed using vinyl-based ink or other different ones.

Washing tests need to be run to prove the correct behaviour of the inks adopted.

It can be laser marked with any kind of logo, brand, serial number, both in reels or single labels.

Laser marking modifies permanently the fabric.

FURTHER INFORMATION

- ✓ The product must be stocked in a dry environment with a temperature between 15°C and 30°C and far away from heat sources and direct light. The product must be used within one year from the delivery.
- ✓ The product is supplied in 100/200 running meters reels +/- 0,5mt, from 1cm up to 105cm width.

For further information, please contact IRE S.r.l.

IRE Srl

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