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DATASHEET RETROLITE

RTL 100 IW

DESCRIPTION



RETROLITE RTL 100 IW

High quality HV silver fabric, made of high reflective glass microspheres applied on a 65% Cotton- 35% Polyester fabric layer.

It is specially designed to withstand industrial washing cycles.

It is certified according to 20471 and it is also certified according to ISO 6330 2A for 100 domestic washing cycles at 60°C, to ISO 15797 for 60 industrial washing cycles and for 10 dry cleaning cycles according to ISO 3175. It can be silk-printed or laser marked and, a perforated version is available, too.

It is a reflective fabric especially designed to:

- ✓ *increase the retro-reflection of the light on garments in low visibility conditions;*
- ✓ *provide high resistance to both domestic and industrial washings;*



The product is **UNI EN 20471 certified**, as per certificate **No. CO0824170092-00-02** issued by **Centro Tessile Cotoniero e Abbigliamento S.p.A.**, and is also **OEKOTEX STANDARD 100 CLASS I** certified.

TECHINICAL SPECIFICATIONS

- ✓ **Total thickness:** 250 Micron
- ✓ **Support fabric:** 65% Cotton – 35% Polyester
- ✓ **Glass Microspheres** with constant refractive value: 1.93
- ✓ **Refraction:** 530 clx 12'/5"

COLORIMETRY

Trichromatic coordinates:

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

REFRACTION * (Cd/lux m²)

Observation angle	Light angle			
	5°	20°	30°	40°
12'	528.2-526.8	519.2-531.7	421.0-483.0	238.0-383.1
20'	357.1-357.7	348.4-360.0	281.0-326.2	172.1-281.6
1°	38.4-40.1	41.6-41.7	40.4-43.7	28.2-28.5
1°30'	13.6-14.0	12.7-12.9	11.7-12.0	11.5-13.4

The retro-reflective properties of RETROLITE 100 IW comply with the values required by EN 20471 as per certificate released by Centro Tessile Cotoniero e Abbigliamento Spa.

PRODUCT SPECIFIC RESISTANCES

RETROLITE RTL 100 IW 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 100 washing cycles at 60°C
6. ISO 15797 – 60 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 100 IW complies with the values required by EN 20471, ISO 6330 2A, ISO 3175.

RTL 50 S		
NORM	WASHING CYCLES	WASHINGS TYPOLOGY
ISO 6330/2A	100	Domestic washing cycles at 60°C
ISO 15797	60	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	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 100 IW 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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