

TEST REPORT

2021CN0132

DATE OF RECEPTION

15/02/2021

DATE TESTS

Starting: 15/02/2021

Ending: 23/03/2021

APPLICANT

SHANGHAI XM GROUP LTD
Room 2403,88 Guangxin Road
CN-200063
SHANGHAI

IDENTIFICATION AND DESCRIPTION OF SAMPLES

REFERENCES

TAPE XM-6001H

According to information supplied by the customer:

Fabric reference: XM-6001H

Composition and percentage: XM-6001H TC 480 Polyester 65% and Cotton 35% Tape, Silver Reflective Material, R480, 5 cm, 50x60C, EN 20471, N/A

Weight: N/A

Color: Silver

TESTS CARRIED OUT

- DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE.
- PRETREATMENT - DETERMINATION OF THE ABRASION RESISTANCE OF FABRICS.
- PRE-TREATMENT FOR INDUSTRIAL WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING.

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*Tests marked with * are not included within the scope of the ENAC accreditation*



SAMPLE DESCRIPTION

PHOTOGRAPHY



Reference ⁽¹⁾
Tape XM-6001H



RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Standard

CIE 54.2 modified by ISO 20471:2013/A1:2016 section 7.3

Apparatus

Optronik rms 10 retroreflectometer 13320E06

Light lamp	CIE standard Illuminant A
Observation angle	12'
Illumination angle	5°
Measurement distance	A=15 m B= 16 m

To determine the retroreflection coefficient is considered

$\epsilon_1 = 0^\circ$ vertical retroreflective strips

$\epsilon_2 = 90^\circ$ Horizontal retroreflective strips.

Deviation from the Standard

Remark:

The uncertainty of the assay of retroreflective photometric performance is $\pm 2\%$ of the value measured, for a coverage factor of $K=2$ (95%).

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Preliminary photometric asses

Reference	Tape XM-6001H
Sample size	100 cm ²
Measurement distance	A
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results(cd/lx·m ²)
12' / 5°	$\epsilon_1 = 0^\circ$ vertical	521,9
12' / 5°	$\epsilon_2 = 90^\circ$ horizontal	524,1

Variation between retroreflection coefficients 27,00 %
Orientation-sensitive material

Note:

When measured at the two rotation angles $\epsilon_1 = 0^\circ$ and $\epsilon_2 = 90^\circ$, materials having coefficients of retroreflection that differ by more than 15 % are defined as orientation sensitive.

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference Tape XM-6001H
Pre-treatment As received
Sample size 100 cm²
Measurement distance A
Date test 23/03/2021

Observation angle	Position	Test results(cd/lx·m ²)			
		Entrance angle			
		5°	20°	30°	40°
12'	ε1 = 0° vertical	521,9	522,9	520,6	485,9
20'	ε1 = 0° vertical	318,3	318,9	316,1	304,1
1°	ε1 = 0° vertical	54,23	53,69	53,73	48,85
1° 30'	ε1 = 0° vertical	8,74	8,32	8,25	7,97
12'	ε2 = 0° horizontal	524,1	522,0	514,9	469,2
20'	ε2 = 0° horizontal	319,1	318,0	313,7	293,1
1°	ε2 = 0° horizontal	54,00	53,59	53,40	47,38
1° 30'	ε2 = 0° horizontal	8,67	8,43	8,20	7,92

Minimum coefficient of retroreflection in cd/(lx m²) for separate performance retroreflective material according to section 6.1 of standard ISO 20471:2013/A1:2016

Observation angle	Entrance angle			
	5°	20°	30°	40°
12'	330	290	180	65
20'	250	200	170	60
1°	25	15	12	10
1°30'	10	7	5	4

PERFORMANCE LEVEL ACCORDING EN ISO 20471:2013/A1:2016 PASS

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference	Tape XM-6001H
Pre-treatment	5000 Abrasion cycles in accordance with ISO 12947-2:1998
Sample size	100 cm ²
Measurement distance	A
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results(cd/lx·m ²)
12' / 5°	ε1 = 0° vertical	507,2
12' / 5°	ε2 = 90° horizontal	508,9

PERFORMANCE LEVEL ACCORDING EN ISO 20471:2013/A1:2016

PASS

Observation angle. Entrance angle	Position	Separate performance retroreflective material requirement after pre- treatment
12' / 5°	ε1 = 0° vertical	≥ 100 (cd/m ² ·lx)
12' / 5°	ε1 = 90° horizontal	

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference	Tape XM-6001H
Pre-treatment	7500 Flexion cycles in accordance with EN ISO 7854:1997
Sample size	100 cm ²
Measurement distance	A
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results(cd/lx·m ²)
12' / 5°	ε1 = 0° vertical	512,8
12' / 5°	ε2 = 90° horizontal	513,3

PERFORMANCE LEVEL ACCORDING EN ISO 20471:2013/A1:2016

PASS

Observation angle. Entrance angle	Position	Separate performance retroreflective material requirement after pre- treatment
12' / 5°	ε1 = 0° vertical	≥ 100 (cd/m ² ·lx)
12' / 5°	ε1 = 90° horizontal	

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference	Tape XM-6001H
Pre-treatment	Folding at cold temperatures at -20°C in accordance with ISO 4675:1990
Sample size	100 cm ²
Measurement distance	A
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results(cd/lx·m ²)
12' / 5°	ε1 = 0° vertical	504,9
12' / 5°	ε2 = 90° horizontal	512,5

PERFORMANCE LEVEL ACCORDING EN ISO 20471:2013/A1:2016

PASS

Observation angle. Entrance angle	Position	Separate performance retroreflective material requirement after pre- treatment
12' / 5°	ε1 = 0° vertical	≥ 100 (cd/m ² ·lx)
12' / 5°	ε1 = 90° horizontal	

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference	Tape XM-6001H
Pre-treatment	Climatic ageing in accordance with EN ISO 20471:2013/A1:2016 section 7.4.4
Sample size	100 cm ²
Measurement distance	A
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results(cd/lx·m ²)
12' / 5°	ε1 = 0° vertical	532,8
12' / 5°	ε2 = 90° horizontal	531,5

PERFORMANCE LEVEL ACCORDING EN ISO 20471:2013/A1:2016

PASS

Observation angle. Entrance angle	Position	Separate performance retroreflective material requirement after pre- treatment
12' / 5°	ε1 = 0° vertical	≥ 100 (cd/m ² ·lx)
12' / 5°	ε1 = 90° horizontal	

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference	Tape XM-6001H
Pre-treatment	Rainfall in accordance with EN ISO 20471:2013/A1:2016 Annex C
Sample size	100 cm ²
Measurement distance	B
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results(cd/lx·m ²)
12' / 5°	ε1 = 0° vertical	529,5
12' / 5°	ε2 = 90° horizontal	529,6

PERFORMANCE LEVEL ACCORDING EN ISO 20471:2013/A1:2016

PASS

Observation angle. Entrance angle	Position	Separate performance retroreflective material requirement after pre- treatment
12' / 5°	ε1 = 0° vertical	≥ 100 (cd/m ² ·lx)
12' / 5°	ε1 = 90° horizontal	

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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Reference	Tape XM-6001H
Pre-treatment	50 washing cycles in accordance with ISO 6330:2012 method 6N, F drying (tumble dry)
Sample size	100 cm ²
Measurement distance	A
Date test	23/03/2021

Observation angle Entrance angle	Position	Test results
12' / 5°	ε1 = 0° vertical	308,3
12' / 5°	ε2 = 90° horizontal	311,8

PERFORMANCE LEVEL ACCORDING UNE-EN ISO 20471:2013

PASS

Observation angle. Entrance angle	Position	Separate performance retroreflective material requirement after pre- treatment
12' / 5°	ε1 = 0° vertical	≥ 100 (cd/m ² ·lx)
12' / 5°	ε1 = 90° horizontal	

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RESULTS

PRETREATMENT - DETERMINATION OF THE ABRASION RESISTANCE OF FABRICS

Standard

EN ISO 12947-2:2016

Apparatus

Martindale Abrasion Tester

Conditioning date

16/02/2021

Test date

09/03/2021

Atmosphere for conditioning and testing according accordance EN ISO 139:2005/A1:2011**Temperature**

(20±2) °C

Relative humidity

(65±4) %

Testing conditions

Rubbing against SM-25 abradant fabric

Testing pressure

9 kPa

Reference

Tape XM-6001H

Specimens	No. of cycles
1	5000
2	5000

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RESULTADOS / RESULTS

PRE-TREATMENT FOR DOMESTIC WASHING AND DRYING PROCEDURES FOR TEXTILE TESTING

Standard

ISO 6330:2012

Standard deviation

Reference

Sample1 Tape XM-6001H

Units

1

Equipment

Wascator 13470E05

Dryer machine

JAMES HEAL
13472E05

Washing procedure 6N **Washing cycles** 50

Drying procedure

F (tumble dryer)

Washing powder

ECE detergent 98 + sodium perborate + TAED

Units	Dry mass of the samples	Counterweight mass	Equipment
1	0,07 Kg	1,90 Kg of Polyester	Wascator 13470E05

Start and finish date

18/02/2021 - 26/02/2021

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Lucia Martinez
Head of PPE and Ballistics department



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- 10.- The uncertainties of tests, which are made explicit in the Results Report, have been estimated for a $k = 2$ (95% probability of coverage). If not informed, they are available to the client in AITEX.
11. - The original materials and rests of samples, not subject to test, will be retained in AITEX during the twelve months following the issuance of the report, so that any check or claim which, in his case, wanted to make the applicant, should be exercised within the period indicated.
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- 13.- The results of the tests and the statement of compliance with the specification in this report refer only to the test sample as it has been analyzed / tested and not the sample / item which has taken the test sample.
- 14.- The client must attend at all times, to the dates of the realization of the tests.
- 15.- According to Resolution EA (33) 31, the test reports must include the unique identification of the sample, and any brand or label of the manufacturer may be added. It is not allowed to re-issue test reports of untested sample names (references), they can only be re-issued for error correction or inclusion of omitted data that were already available at the time of the test. The laboratory can not assume responsibility for declaring that the product with the new trade name / trademark is strictly identical to the one originally tested; This responsibility belongs to the client.
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CERTIFICATE OF TEST

Certificate of test n°

21CN0133

AITEX declares that the articles:

Given by the company:

"TAPE XM-6001H"

Information according to the customer:

Fabric reference: XM-6001H

Composition and percentage: XM-6001H TC 480

Polyester 65% and Cotton 35% Tape, Silver Reflective

Material, R480, 5 cm, 50x60C, EN 20471, N/A

Weight: N/A // Color: Silver

SHANGHAI XM GROUP LTD
Room 2403,88 Guangxin Road
CN-200063
SHANGHAI

Complies with the requirements of the standard/s:

EN ISO 20471:2013/A1:2016 HIGH VISIBILITY CLOTHING - TEST METHODS AND REQUIREMENTS

SECTION	TEST	REQUISITES	RESULTS	REPORT No.
7.3	Photometric performance requirements for retroreflective material as new	Table 4	Pass	2021CN0132
7.3; 7.4.1	Photometric performance requirements for retroreflective material after 5000 Abrasion cycles in accordance with ISO 12947-2:1998	Section 6.2.2	Pass	2021CN0132
7.3; 7.4.2	Photometric performance requirements for retroreflective material after 7500 Flexion cycles in accordance with ISO 7854:1997	Section 6.2.2	Pass	2021CN0132
7.3; 7.4.3	Photometric performance requirements for retroreflective material after Folding at cold temperatures at -20°C in accordance with ISO 4675:1990	Section 6.2.2	Pass	2021CN0132
7.3; 7.4.4	Photometric performance requirements for retroreflective material after Climatic ageing in accordance with ISO 20471:2013 section 7.4.4	Section 6.2.2	Pass	2021CN0132
7.3; 7.4.5	Photometric performance requirements for retroreflective material after Rainfall in accordance with EN ISO 20471:2013/A1:2016 Annex C	Section 6.2.2	Pass	2021CN0132
7.3; 7.5.2	Photometric performance requirements for retroreflective material after 50 washing cycles in accordance with ISO 6330:2012 at 60°C method 6N drying method F	Section 6.2.2	Pass	2021CN0132

Remark: The tests have been carried out in the following reports: 2021CN0132 (Date tests ending: 23/03/2021).

The test results above indicated are shown in the testing report:

2021CN0132

Issued by AITEX on: 23/03/2021

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not implies any monitoring or control activity on this product done by AITEX.

This document is a test summary and does not imply a product certification.

Signed by: Raquel Muñoz González
Manager Innovation Area

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LUMBRERAS
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CERTIFICATE OF TEST

Certificate of test n°

22EP7157

AITEX declares that the articles:

Given by the company:

"TAPE REF.- XM-6001H"

According to information supplied by the customer:
Fabric ref. XM-6001H
Composition and percentage: XM-6001H TC 480 Polyester
65%, Cotton 35% Tape, Silver Reflective Material, R480, 5 cm,
50x60C, EN 20471, N/A
Weight:
Color: Grey / Others: XMT-21-079-JT

XM TEXTILES EUROPE UAB

Darius ir Gireno st. 42A Office 509
LT-02189
Vilnius

Complies with the requirements of the standard/s:

EN ISO 20471:2013/A1:2016. HIGH VISIBILITY CLOTHING. TEST METHODS AND REQUIREMENTS

Clause	TEST	RESULTS	REQUIREMENTS	REPORT No.
7.5.3	Retroreflective performance after 30 cycles of dry cleaning	PASS	12/5° ≥ 100 (cd/m ² ·lx)	2022EP6676

certificate

The test results above indicated are shown in the testing report:

2022EP6676

Issued by AITEX on: 17/05/2022.

This document is of application for the tested sample, according to the tests that have been done in the previously mentioned dates in the reports above shown. This does not imply any monitoring or control activity on this product done by AITEX.

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Manager Innovation Area

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TEST REPORT

2022EP6676

DATE OF RECEPTION

Date Format: dd/MM/yyyy 13/04/2022

DATE OF TESTS

Starting : 25/04/2022

Ending: 11/05/2022

APPLICANT

XM Textiles Europe UAB

Darius ir Gireno st. 42A Office 509

LT-02189 Vilnius

Att CERTIFICATION TEAM

REFERENCE OF SAMPLES

Reference by AITEX	Reference provided by the customer	Sample description
2022EP6676-S01	Tape ref. XM-6001H	Reflective tape

TESTS CARRIED OUT

- PRE-TREATMENT OF DRY CLEANING
- DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Tests marked with * are not included within the scope of the accreditation.





DESCRIPTION OF SAMPLES



Reference by AITEX: 2022EP6676-S01

Reference provided by the customer:

Tape ref. XM-6001H

Sample description:

Fabric ref. XM-6001H

Composition and percentage XM-6001H TC 480 Polyester 65%, Cotton 35% Tape, Silver Reflective Material, R480, 5 cm,

50x60C, EN 20471, N/A

Weight

Color Grey

Others (if any) XMT-21-079-JT

Reference by AITEX	Reference provided by the customer
2022EP6676-S01.1	Tape ref. XM-6001H - AFTER DRY CLEANING

**EXECUTIVE SUMMARY**

	Sample	Test/Standard	Result
EN ISO 20471:2013/A1:2016	2022EP6676-S01.1	RETROREFLECTIVE PERFORMANCE AFTER PRETREATMENT EN ISO 20471:2013/A1:2016	PASS



REQUIREMENT SUMMARY

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

REQUIREMENT ACCORDING EN ISO 20471:2013/A1:2016

Minimum coefficient of retroreflection in $\text{cd}/(\text{lx m}^2)$ for separate performance retroreflective material according to section 6.2.2 of standard EN ISO 20471:2013/A1:2016

Observation angle Entrance angle	Position	Requirement after pre-treatment
12' / 5°	$\epsilon_1 = 0^\circ$ vertical	≥ 100 ($\text{cd}/\text{lx}\cdot\text{m}^2$)
12' / 5°	$\epsilon_2 = 90^\circ$ horizontal	



RESULTS

PRE-TREATMENT OF DRY CLEANING

Standard

EN ISO 3175-2:2018

Equipment

Drying machine 13104N12
Scale 13003E03
Scale sartorius 04075IE03

Washing procedure

Normal

Reference

2022EP6676-S01

Test date

Start date 25/04/2022 **End date** 29/04/2022

Washing cycles	30
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RESULTS

DETERMINATION OF RETROREFLECTIVE PHOTOMETRIC PERFORMANCE

Standard

EN ISO 20471:2013/A1:2016

Equipment

Optronik rms 10 retroreflectometer 13320E06

Test date

Start date 09/05/2022 **End date** 11/05/2022

Light lamp

CIE standard Illuminant A

Measurement distance

A=15m

B=16m

To determine the retroreflection coefficient is considered

$\epsilon_1 = 0^\circ$ vertical retroreflective strips.

$\epsilon_2 = 90^\circ$ Horizontal retroreflective strips.

Variation between retroreflection coefficients

0.12 % No orientation-sensitive material

Reference

2022EP6676-S01.1

Pre-treatment

30 cycles of dry-cleaning in accordance with EN ISO 3175-2:2010

Sample size

100 cm²

Measurement distance

A

Observation angle Entrance angle	Position	Result (cd/lx·m ²)
12' / 5°	$\epsilon_1 = 0^\circ$ vertical	459.7
12' / 5°	$\epsilon_2 = 90^\circ$ horizontal	460.3

Uncertainty

±2% of the value measured

Note

Minimum coefficient of retroreflection in cd/(lx m²) for separate performance retroreflective material according to section 6.2.2 of standard EN ISO 20471:2013/A1:2016



Lucia Martinez
Head of PPE and Ballistics department

Date: 17/05/2022 11:24:29

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- 12-This report may only be sent or delivered by hand to the applicant or to a person duly authorised by the same.
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