# E3. Declaration of Conformity

Declaration of Conformity to ANSI/ISEA 107-2020, High-Visibility Safety Apparel

Certificate No. J26119-2020				
	ober Corporation ashington Ave., Suite 40 v, NJ 08854	03		
Product information (name, model numb Bomber II Jacket, Fluorescent Orange-R Model Number: J26119	er, part number or other	information as applicable):		
Company declares that the above production compliant high-visibility safety item for Petested with documents referenced under	rformance Class <u>3</u> ., T this certificate number. T r appropriate amount of	rents as stated in ANSI/ISEA 107-2020 as a Figure 1. Figure 2. All relevant materials have been Files item meets all design visible reflective material and background		
<ol> <li>VISIBLE BACKGROUND MATERIAL</li> <li>Amount of visible background material</li> </ol>		d): <u>&gt;0.80m² (1240 in.²)</u>		
Please list each material that contributes to Use separate sheet for addition materials. Material 1 Identification	owards the amount <b>VISI</b>	BLE BACKGROUND MATERIAL listed above.		
Test Lab: Intertek	Material Type: □Knitte	ed X Woven □ Other:		
Report #: GZHT91069942	Material Content (such as Polyester, Modacrylic, and others): PU on Polyester			
Date: 11/11/2021	Weight: 4.0 oz	Color: Fl. Orange-Red		
Description: Interior Coated Polyuretha	ne on 210D Woven Poly	yester with Exterior DWR Coating		
Material 2 Identification				
Test Lab:	Material Type: □Knitte	ed Uwoven Other:		
Report #:	Material Content (such	h as Polyester, Modacrylic, and others):		
Date:	Weight:	Color:		
Description:				
Material 3 Identification				
Test Lab:	Material Type: □Knitte	ed Uwoven Other:		
Report #:	Material Content (such	h as Polyester, Modacrylic, and others):		
Date:	Weight:	Color:		
Description:				

# Declaration of Conformity (page 2 of 2)

2.	VISIBLE RETROREFLECTIVE MATE	:RIAL
• ,	Amount of visible retroreflective material	(smallest size offered) _>0.20m² (310 in.²)
Р	ease list each type of material that contr	ibutes towards VISIBLE RETROREFLECTIVE MATERIAL listed above.
M	aterial 1 Identification	
	Test Lab: Intertek	
	Report #: GZHT91065188	
	Date: 10/18/2021	Style #: 1303-4
	Description: 50mm wide sew on silver r	eflective trim
M	aterial 2 Identification	
	Test Lab:	
	Report #:	
	Date:	Style #:
	Description:	
*(	Jse separate sheet for additional materia	ls
3.	OVERALL LUMINANCE  Check here if test report for options	al Overall Luminance testing is attached.
TI	ne undersigned hereby warrants that he/	she is authorized to legally bind the company identified above.
Si	gned: MIGHAN BOWS	Title: Product Manager
Ρ	rint Name:_Meghan Bowser	Date: 8/17/22



## Certificate of Test

Issued To: TRC NANJING REPRESENTATIVE OFFICE Our Reference No.: GZHT9106994202

ROOM 1809.#3 BUILDING.

Certificate Issue Date: Nov 11, 2021

DEYING INT'L PLAZA, #222 CHANGHONG ROAD.

YUHUATAI DISTRICT, NANJING 210012

Attn:

ANNE WANG

Description:

One (1) piece of submitted sample said to be Hi-Vis Orange PU on 210D Polyester.

We Hereby Declare That The Sample Described Above Has Been Tested By Intertek Testing Services Shenzhen Ltd. Guangzhou Branch And Meets The Requirements Of The Following Selected Tests Of ANSI/ISEA 107-2020.

Color Performance Of Background And Combined-performance Materials Colorfastness To Crocking Of Background Material Color Fastness To Perspiration Of Background Material Colorfastness To Water Of Background Material Water Repellency Protection Waterproof Protection Color Fastness To Laundry Of Background Material Dimension Change Of Background Material Tear Resistance

The test results are given in our report

No.: GZHT91069942 Dated: Nov 11, 2021

#### Note:

- This Declaration Applies To The Particular Sample Tested And To The Specific Tests Carried Out As 1 Dated And Detailed In The Report(S) Referenced Above.
- 2 This Certificate Is Valid Only For The Applicant's Selected Test Items And Must Not Be Used Without The Attached Test Report.
- This Certificate Must Not Be Confused Neither With The EU Type Examination Certificate Released By Nofified Body Nor With The Conformalty Declaration Released By Manufacturer.

Authorized By:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Guiliang Dong Senior Lab Manager







Number: Date:

GZHT91069942

Nov 11, 2021

Applicant:

TRC NANJING REPRESENTATIVE OFFICE

ROOM 1809, #3 BUILDING,

DEYING INT'L PLAZA, #222 CHANGHONG ROAD,

YUHUATAI DISTRICT, NANJING 210012

Attn: ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis Orange PU on 210D Polyester.

Standard

ANSI/ISEA 107-2020

Buyer

**Tingley Rubber Corporation** 

Ref. No.

Hi-Vis OR PU on 210D Polyester, #KBS202109210D-2

Goods Exported to

U.S.A

Date Received/Date Test Started

Oct. 11, 2021

Date Final Information Confirmed/

Nov. 10, 2021/--

Date Payment Received:

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at <a href="mailto:qzfootwear@intertek.com">qzfootwear@intertek.com</a>

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager

wx / lydiayang

Page 1 Of 9

Intertek Testing Services Sherizhen Ltd. Guangzhou Branch

深圳天祥质量技术服务/编纂/ 州分公司
Room 02, 1-8/F. & Room 01 F10 / E201/E301/E402/E501/E601/E701/E801,
7-2, Caipin Road, Guangzhou scheice City, GETDu Gran gzhou, Guangdong, China 广州经济技术开发区科学研制系统 7 二第一 是 02 房、01 房 101、E201、E201、E301、L60、701、E601、F01662 No.7-2, Caipin Road, Guangzhous 广州经济技术开发区科

Tel: +86 208213 9001 Fax: 4 8670 82089909 ostcode: 510663









Number:

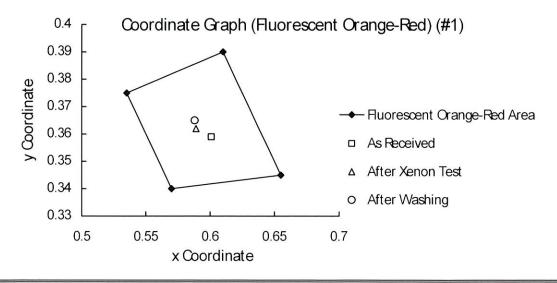
GZHT91069942

TEST REPORT
Tests Conducted (As Requested By The Applicant)

Color Performance Of Background And Combined-performance Materials (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.1.2 (After Xenon Test) & ASTM E1164-17)

Sample	Color	Pre-condition	Chromaticity Coordinates		Total Luminance Factor	Requirement	Pass/Fail	
			3	X	У	Y (%)		
-	Fluorescent	As	0 °	0.6008	0.3589	47	-	-
	Orange-Red	Received (#1)	90°	0.6011	0.3589	47	-	-
			Mean	0.601	0.359	47	*	Pass
		After Xenon	0°	0.5887	0.3625	49	-	-
		Test (# & #1)	90°	0.5891	0.3625	49	-	-
			Mean	0.589	0.362	49	*	Pass
Note:	The Specimen	Is Backed By A E	Black Und	erlay With A	Reflectand	ce Of Less Tha	n 0.04.	

Sample	Color	Pre-Condition	Chromaticity Coordinates		Total Luminance Factor	Applicant's Requirement	Pass/Fail	
			3	×	У	Y (%)		
-	Fluorescent	After Washing	0°	0.5876	0.3646	41	-	-
	Orange-Red	(#1 & #2)	90°	0.5880	0.3648	41	-	-
	5.		Mean	0.588	0.365	41	*	Pass
Note:	The Specimen	Is Backed By A E	Black Unde	erlay With A	Reflectance	e Of Less Thai	n 0.04.	



/ lydiayang

Intertek Testing Services sherrhen/Ltd. Guangzhou Branch 深圳天祥质量技术服务编版公司、州分公司
Room 02, 1-8/F. & Room 01, 150/F201/E301/E501/E501/E501/E501/E501,
No.7-2, Caipin Road, Guangzhou Gelec Ctt, GETDD Brangzhou, Guangdong, China 广州经济技术开发区科学规划领路 7 (二第一) 82, 02 房、01 房 101、E201、E301、Ltd. E501、E505、/ 501 E801
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Number:

GZHT91069942

Tests Conducted (As Requested By The Applicant)

Color Performance Of Background And Combined-performance Materials (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.1.2 (After Xenon Test) & ASTM E1164-17) (Cont)

Remark: \* =

**TEST REPORT** 

Color	Chromaticity Coordinates		Minimum Total Luminance Factor
	X	У	Y (%)
	0.610	0.390	
Fluorescent	0.535	0.375	40
Orange-Red	0.570	0.340	40
- 100 Mariana	0.655	0.345	

- # = Xenon Test Based On AATCC 16.3-2014, Colorfastness To Light Xenon Arc. Expose The Materials To 40 AATCC Fading Units (170 KJ/m<sup>2</sup>@420nm).
- Two Layers Of The Same Material #1=
- ISO 6330:2012, Wash Condition: #2 =

Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4N
Bleaching Procedure:	-
Drying Procedure:	Line Drying
Ironing Procedure:	-
Professional Textile Care Procedure:	-
Number Of Cycles:	25







Number:

GZHT91069942

Total Quality. Assured. **TEST REPORT** 

Tests Conducted (As Requested By The Applicant)

Colorfastness To Crocking Of Background Material (ANSI/ISEA 107-2020, 8.2.1 & AATCC 8-2016)

Preconditioning:

Temperature:

(20 ± 2)°C

Relative Humidity:

 $(65 \pm 5)\%$ 

Period:

24 Hours

Sample	Test Condition	Results	Requirement	Pass / Fail
-	Dry	Grade 4.5	Min. Grade 3.0	Pass
	Wet	Grade 4.5	Min. Grade 3.0	Pass

3 Colorfastness To Perspiration Of Background Material (ANSI/ISEA 107-2020, 8.2.2 & AATCC 15-2013)

Test Condition:

Load:

4.54 kg

Oven temperature:

(38 ± 1) ℃

Test Period:

 $6 h \pm 5 min$ 

Sample		R	esults	Requirement	Pass / Fail
-	Color Change:		Grade 4.5	Min. Grade 4.0	Pass
	Color Stain:	-Acetate	Grade 4.5		
		-Cotton	Grade 4.5		
		-Nylon	Grade 4.5		
		-Polyester	Grade 4.5	Min. Grade 3.0	Pass
		-Acrylic	Grade 4.5		
		-Wool	Grade 4.5		

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Tel: +86 208213 9001 名文 连接20189998 \* ostcode: 510663



Total Quality. Assured. **TEST REPORT** 

Tests Conducted (As Requested By The Applicant)



Number:

GZHT91069942

Colorfastness To Water Of Background Material (ANSI/ISEA 107-2020, 8.2.3 & AATCC 107-2013)

Test Condition:

Pressure:

4.5 kg

Oven Temperature:

(38 ± 1) ℃

Test Period:

18 h

Sample		R	esults	Requirement	Pass / Fail
1411	Color Change	:	Grade 4.5	Min. Grade 3.0	Pass
	Staining	-Acetate	Grade 4.5		
		-Cotton	Grade 4.5		
		-Nylon	Grade 4.5		
		-Polyester	Grade 4.5	Min. Grade 3.0	Pass
		-Acrylic	Grade 4.5		
		-Wool	Grade 4.5		

5 Water Repellency Protection (Spray Test) (ANSI/ISEA 107-2020, 8.5.1 & AATCC 22-2017)

Specimen Conditioning:

Temperature:

(20 ± 2) °C

Relative Humidity:

 $(65 \pm 5)\%$ 

Period:

24 Hours

Test Condition:

Water Temperature:

(27±1)℃

Water Volume:

250 ml

Spray Time

25 - 30 Seconds

Sample	Pre-treatment	Results	Requirement	Pass/Fail
-	As Received	100	Min. 90	Pass
	After 5 Laundry Cycles (*)	80	Min. 70	Pass

Remark: \* = AATCC 135-2018

/ lydiayang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务精限公司 州分公司 Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, dence City, GETDD: Guangzhou, Guangdong, China 数数 7 大二第一 经 02 房、01 房 101、 No.7-2, Caipin Road, Guangzhou

广州经济技术开发区科学 E201, E30 Tel: +86 208213 900

ostcode: 510663

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**TEST REPORT** 

Tests Conducted (As Requested By The Applicant)



Number:

GZHT91069942

Waterproof Protection (Hydrostatic Pressure Test) (ANSI/ISEA 107-2020, 8.5.3 & AATCC 127-2017)

Specimen Conditioning:

Temperature:

(20 ± 2) °C

Relative Humidity:

 $(65 \pm 5)\%$ 

Period:

24 Hours

Test Condition:

Equipment Type: Water Temperature: Hydrostatic Head Tester

(21±2)℃

Gradient

60 mbar/min

Sample	Pre-treatment	Specimen	Results	Requirement	Pass/Fail	
-		1	> 500 cm	Min. 200 cm	Pass	
	As Received	As Received	2	> 500 cm	Min. 200 cm	Pass
		3	> 500 cm	Min. 200 cm	Pass	
After		1	> 500 cm	Min. 200 cm	Pass	
	After 5 Laundry Cycles(*)	2	> 500 cm	Min. 200 cm	Pass	
		3	> 500 cm	Min. 200 cm	Pass	

Sample	Pre-treatment	Specimen	Results	Applicant's Requirement	Pass/Fail
-	- After 25 Laundry Cycles(*)	1	> 500 cm	Min. 200 cm	Pass
		2	> 500 cm	Min. 200 cm	Pass
		3	> 500 cm	Min. 200 cm	Pass

Remark: \* = AATCC 135-2018

/ lydiayang

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ostcode: 510663





Tests Conducted (As Requested By The Applicant)





中国认可 国际互认 检测 TESTING CNAS L0220

Number:

GZHT91069942

7 Color Fastness To Laundry Of Background Material (ANSI/ISEA 107-2020, 8.2.3)

Test Condition:

Test Method:

AATCC 61-2013-2A,Modified To Use  $105\,^{\circ}\mathrm{F}$  (Domestic Laundry)

Sample		Resul	ts	Requirement	Dags / F-:1
-	Color Change:		Grade 4.5	Min. Grade 4.5	<u>Pass / Fail</u> Pass
	Color Stain:	-Acetate	Grade 4.0		
		-Cotton	Grade 4.5		
		-Nylon	Grade 3.5		
		-Polyester	Grade 4.5	Min. Grade 3.0	Pass
		-Acrylic	Grade 4.5		1 433
		-Wool	Grade 4.5		

Remark: This Test Was Conducted At Room 801/901, No. 8, East BaoYing Road, Huangpu District, Guangzhou.

8 Dimension Change Of Background Material (Home Laundering) (ANSI/ISEA 107-2020, 8.3 & ASTM D1776-16)

Test Condition:

Standard Code:

AATCC 135-2012 (3)(III)(A)(iii)

Cleaning Cycles:

5

Sample		Results	Doguiromant	D / F :1
	Length		Requirement	<u>Pass / Fail</u>
		-0.8%	*	Pass
	Width	-0.4%	*	Pass
		0.170		Pas

Remark: \* =

Material Type	Knit Fabrics And All Other Materials
Length	Not Exceed ±7%
Width	Not Exceed $\pm 5\%$

Remark: This Test Was Conducted At Room 801/901, No. 8, East BaoYing Road, Huangpu District, Guangzhou.

/ lydiayang

Page 7 Of 9





Tests Conducted (As Requested By The Applicant)



Number:

GZHT91069942

Tear Resistance Of Woven Materials (Uncoated, Coated Or Laminate) (ANSI/ISEA 107-2020, 8.4.2 & ASTM D1424-09(2019))

Preconditioning:

Temperature:

(20±2)°C

Relative Humidity:

 $(65 \pm 5)\%$ 

Period:

24 hours

Sample	Specimen	Machine Direction	Requirement	Pass/Fail
-	1	19.0 N	-	-
	2	19.4 N	-	-
	3	18.5 N	-	-
	4	18.9 N	_	-
	5	19.4 N	-	1070
	Average	19.0 N	Min. 13 N	Pass
	Specimen	Cross-Machine Direction	Requirement	Pass/Fail
	1	14.3 N		
	2	14.7 N	-	-
	3	13.6 N	_	_
	4	13.8 N	-	-
	5	14.0 N	_	-
	Average	14.1 N	Min. 13 N	Pass

Remark: N = Newton

Remark: This Test Was Conducted At Room 801/901, No. 8, East BaoYing Road, Huangpu District, Guangzhou.

/ lydiayang

Intertek Testing Services Sherrzhen Ltd Guangzhou Branch 深圳天祥质量技术服务特限公司 一州分公司 Room 02, 1-8/F. & Room 0f 501/E601/E701/E801, E101/E201/E301/E401/E No.7-2, Caipin Road, Guangzhou Science City, GETDD: Gran gzhou, Guangdong, China 广州经济技术开发区科 (2) 2 房、01 房 101、 E201, E30 Tel: +86 208213 9001

ostcode: 510663







Number:

GZHT91069942



End Of Report

This report is made solely on the basis of your instructions and/or information and materials supplied by you. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the Review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. No copy of the test report(except for full text copy) shall be made without the written approval by Intertek.

/ lydiayang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务精限公司 州分公司 Room 02, 1-8/F. & Room 01 501/E601/E701/E801, E101/E201/E301/E401/E No.7-2, Caipin Road, Guangzhou S 广州经济技术开发区科

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ostcode: 510663



### Certificate of Test

Issued To:

TRC NANJING REPRESENTATIVE

Our Reference No.: GZHT9106518802

**OFFICE** 

ROOM 1809,#3 BUILDING.

Certificate Issue Date: Oct 18, 2021

DEYING INT'L PLAZA,#222 CHANGHONG

ROAD.

YUHUATAI DISTRICT, NANJING 210012

Attn:

ANNE WANG

Description:

One (1) piece of submitted sample said to be Silver CS 1303-4 Reflective Tape.

We Hereby Declare That The Sample Described Above Has Been Tested By Intertek Testing Services Shenzhen Ltd. Guangzhou Branch And Meets The Requirements Of The Following Selected Tests Of ANSI/ISEA 107-2020.

Retroreflective Performance Prior to Test Exposure Retroreflection After Abrasion Retroreflection After Flexing Retroreflection After Folding At Cold Temperatures

Retroreflection After Temperature Variation Retroreflection After Washing Retroreflection (Wet Performance)

The test results are given in our report No.: GZHT91065188 Dated: Oct 18, 2021

### Note:

This Declaration Applies To The Particular Sample Tested And To The Specific Tests Carried Out As Dated And Detailed In The Report(S) Referenced Above.

This Certificate Is Valid Only For The Applicant's Selected Test Items And Must Not Be Used Without

2

The Attached Test Report.

This Certificate Must Not Be Confused Neither With The EU Type Examination Certificate Released By Nofified Body Nor With The Conformaity Declaration Released By Manufacturer.

#### Authorized By:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Guiliang Dong Senior Lab Manager

Page 1 Of 1

Intertek Testing Services Shenzhen Ltd Guangzhou Branch

深圳天祥质量技 **康多祷**康 **河** 州分公司 Room 02, 1-8/F. & Room 01, 5107/E201/E307/E403/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhoù Science Cith, GeTDD: Gra garbou, Guangdong, China 广州经济技术开发区科·威克顿路 7 二第三 85 02 房、01 房 101、 E201、E301、E403、E501、E603、F301、E801 Tel: +86 208213 9001 日本 电极动 5208998 Jostcode: 510663







Number: Date:

GZHT91065188

Oct 18, 2021

Applicant:

TRC NANJING REPRESENTATIVE OFFICE

ROOM 1809, #3 BUILDING,

DEYING INT'L PLAZA, #222 CHANGHONG ROAD,

YUHUATAI DISTRICT, NANJING 210012

Attn:

ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Silver CS 1303-4 Reflective Tape.

Standard

ANSI/ISEA 107-2020

Buyer

Tingley Rubber Corporation

Ref. No.

CS 1303-4 Reflective Tape, #SF210610CSR

Goods Exported to

U.S.A

Date Received/Date Test Started

Sep. 16, 2021

Date Final Information Confirmed/

--/Oct. 15, 2021

Date Payment Received:

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at <a href="mailto:gzfootwear@intertek.com">gzfootwear@intertek.com</a>

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

**Guiliang Dong** Senior Lab Manager

Page 1 Of 6

MR / lydiayang

Intertek Testing Services Sherizher Ltd. Guangzhou Branch 深圳天祥质量技术服务精度公司、州分公司 Room 02, 1-8/F. & Room 01, 115/F201/E301/E301/E601/E701/E801, No.7-2, Caipin Road, Guangzhou 广州经济技术开发区科学

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Number:

GZHT91065188

<u>TEST REPORT</u>
Tests Conducted (As Requested By The Applicant)

Retroreflective Performance Prior to Test Exposure (ANSI/ISEA 107-2020, 9.1 & 10.3 & ASTM E809-08(2013))

Sample	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2$ =0)	Coeffici Retrorei cd/(lx	flection	<u>Requirement</u>	Pass/Fail
-	0.20° [12′]	5°	490	488	Min. 330/248 cd/(lx·m²) (*)	Pass
		20°	490	485	Min. 290/218 cd/(lx·m²) (*)	Pass
		30°	483	475	Min. 180/135 cd/(lx·m²) (*)	Pass
		40°	425	407	Min. 65/47 cd/(lx·m²) (*)	Pass
	0.33° [20′]	5°	362	360	Min. 250/188 cd/( $lx \cdot m^2$ ) (*)	Pass
		20°	366	363	Min. 200/150 cd/( $lx \cdot m^2$ ) (*)	Pass
		30 °	359	354	Min. 170/128 cd/( $lx \cdot m^2$ ) (*)	Pass
		40°	326	312	Min. 60/45 cd/(lx·m²) (*)	Pass
	1.0°	5°	34.1	34.1	Min. 25/18.8 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	33.3	33.2	Min. 15/11.3 cd/(lx·m²) (*)	Pass
		30 °	33.6	32.6	Min. 12/9 cd/(lx·m²) (*)	Pass
		40°	34.2	31.0	Min. 10/7.5 cd/(lx·m²) (*)	Pass
	1.5° [1° 30′]	5°	25.4	24.9	Min. 10/7.5 cd/(lx·m²) (*)	Pass
		20°	24.2	23.8	Min. 7/5.25 cd/(lx·m²) (*)	Pass
		30°	22.9	22.8	Min. 5/3.75 cd/(lx·m²) (*)	Pass
		40°	21.0	19.9	Min. 4/3 cd/(lx·m²) (*)	Pass

\*= Retroreflective Material Shall Comply With The Minimum Requirements For The Coefficient Of Retroreflection At The One Of The Two Rotation Angles, And Shall Be Not Less Than 75% Of The Values At The Other Rotation Angle.

Note: Take Measurements At  $\epsilon 1=0^\circ$  And  $\epsilon 2=90^\circ$ . Maximum Value Is Recorded On Left Side Of The Result Column And The Other Value On Right Side Of Test Result Column.

Tel: +86 208213 9001 Fa

E801 O**909** Ostcode: 510663

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Tests Conducted (As Requested By The Applicant)



Number:

GZHT91065188

2 Retroreflection After Abrasion (ANSI/ISEA 107-2020, 9.2 & 10.4.1)

Test Exposure	Test Method
Abrasion	ISO 12947-2:2016, Pressure: 9 kPa, 5,000 Cycles

Sample	x-Direction (Horizontal: $\varepsilon = 0^{\circ}$ )				
-	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
	0.20° [12′]	5°	482 cd/(lx·m²)	Min. 100 cd/(lx·m²)	Pass

Sample			y-Direction (Vertical: ε=90	° )	
-	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^{\circ}$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
	0.20° [12′]	5°	481 cd/(lx·m²)	Min. 75 cd/(lx·m <sup>2</sup> )	Pass

Retroreflection After Flexing (ANSI/ISEA 107-2020, 9.2 & 10.4.2)

Test Exposure	Test Method	
Flexing	ISO 7854:1995, Method A, 7,500 Cycles	

Sample		>	x-Direction (Horizontal: ε=	0°)	
-	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
	0.20° [12′]	5°	424 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m²)	Pass

Sample			y-Direction (Vertical: ε=90	)	
-	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^{\circ}$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
	0.20° [12']	5°	418 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass

/ lydiayang

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Retroreflection After Folding At Cold Temperatures (ANSI/ISEA 107-2020, 9.2 & 10.4.3)

Test Exposure	Test Method
Folding At Cold Temperatures	ISO 4675:2017, Exposure At $(-20\pm1)^{\circ}$ C For 4 Hours

Sample		>	x-Direction (Horizontal: ε=0	D°)	
	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	461 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m²)	Pass

Sample			y-Direction (Vertical: ε=90°	)	
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^{\circ}$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	457 cd/(lx·m²)	Min. 75 cd/(lx·m <sup>2</sup> )	Pass

5 Retroreflection After Temperature Variation (ANSI/ISEA 107-2020, 9.2 & 10.4.4)

Test Exposure	Test Method
	a) For 12 H At 50±2℃; Immediately Followed By
Temperature Variation	b) 20 H At −30±2°C; Immediately Followed By
	c) For At Least 2 H At 20±2°C And 65±5 % Relative Humidity

Sample	x-Direction (Horizontal: ε=0°)				
	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	455 cd/(lx·m²)	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\varepsilon$ =90°)					
	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail	
-	0.20° [12′]	5°	452 cd/(lx·m <sup>2</sup> )	Min. 75 cd/( $lx \cdot m^2$ )	Pass	

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Tests Conducted (As Requested By The Applicant)



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Retroreflection After Washing (ANSI/ISEA 107-2020, 9.2 & 10.4.5.2 (Washing))

	•	
Wash	Cond	ition.

Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	6N
Bleaching Procedure:	
Drying Procedure:	After Each Wash Cycle The Samples Were Dried At 50±5°C.
Ironing Procedure:	-
Professional Textile Care Procedure:	-8
Number Of Cycles:	25

Sample			x-Direction (Horizontal: ε=	0°)	
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^{\circ}$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	154 cd/(lx·m²)	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample		y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail	
-	0.20° [12′]	5°	125 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass	

Retroreflection (Wet Performance) (ANSI/ISEA 107-2020, 9.2 & Appendix B)

Test Exposure	Test Method	
Retroreflective Wet Performance	ANSI/ISEA 107-2020, Appendix B	

Sample		x-Direction (Horizontal: ε=0°)				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^{\circ}$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail	
-	0.20° [12′]	5°	290 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m²)	Pass	

Sample		)	/-Direction (Vertical: ε=90	° )	
	Observation Angle	Entrance Angle $\beta_1$ $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	276 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m²)	Pass

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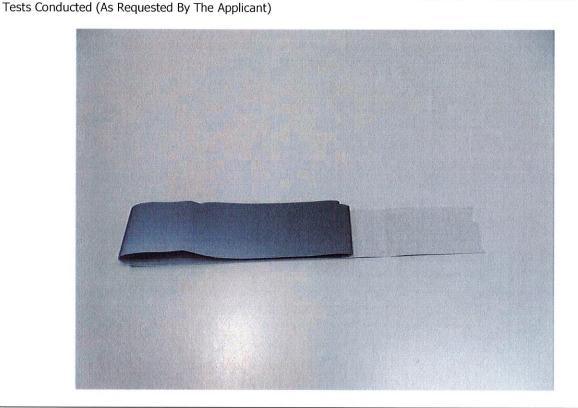






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End Of Report

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