E3. Declaration of Conformity

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

Certificate No. J26322-2020		
	ubber Corporation Vashington Ave., Suite 4 ay, NJ 08854	403
Product information (name, model numl Optix Jacket, Fluorescent Yellow-Green Model Number: J26322	ber, part number or othe	er information as applicable):
Company declares that the above producompliant high-visibility safety item for P tested with documents referenced under	r this certificate number or appropriate amount of	ments as stated in ANSI/ISEA 107-2020 as a Type R; All relevant materials have been This item meets all design of visible reflective material and background
VISIBLE BACKGROUND MATERIA Amount of visible background material that contributes.	erial (smallest size offer	ed): >0.80m² (1240 in.²) SIBLE BACKGROUND MATERIAL listed above.
Use separate sheet for addition materials	5.	
Test Lab: Intertek	Material Type: □Kni	tted X Woven □ Other:
Report #: GZHT91069684	PU on Polyester	ch as Polyester, Modacrylic, and others):
Date: 11/11/2021	Weight: 4.0 oz	Color: Fl. Yellow-Green
Description: Interior Coated Polyuretha	ane on 210D Woven Po	olyester with Exterior DWR Coating
Material 2 Identification		
Test Lab:	Material Type: □Kni	tted D Woven D Other:
Report #:	Material Content (su	ch as Polyester, Modacrylic, and others):
Date:	Weight:	Color:
Description:		
Material 3 Identification		
Test Lab:	Material Type: □Kni	itted □ Woven □ Other:
Report #:	Material Content (su	ch as Polyester, Modacrylic, and others):
Date:	Weight:	Color:
Description:		

Declaration of Conformity (page 2 of 2)

2. VISIBLE RETROREFLECTIVE MATE	ERIAL
Amount of visible retroreflective material	(smallest size offered) >0.20m² (310 in.²)
Please list each type of material that contri	butes towards VISIBLE RETROREFLECTIVE MATERIAL listed above
Material 1 Identification	
Test Lab: Intertek	
Report #: GZHT91065188	
Date: 10/18/2021	Style #: 1303-4
Description: 50mm wide sew on silver re	eflective trim
Material 2 Identification	
Test Lab:	
Report #:	
Date:	Style #:
Description:	
*Use separate sheet for additional material	ds .
3. OVERALL LUMINANCE	
	al Overall Luminance testing is attached.
The undersigned hereby warrants that he/s	she is authorized to legally bind the company identified above.
signed: MIGHAN BOWSI	Title: Product Manager
Print Name: <u>Meghan Bowser</u>	Date: _8/17/22



Certificate of Test

TRC NANJING REPRESENTATIVE OFFICE Issued To:

Our Reference No.: GZHT9106968402

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 Yellow 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.: GZHT91069684

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

Page 1 Of 1









Number: Date:

GZHT91069684

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 Yellow PU on 210D Polyester.

Standard

ANSI/ISEA 107-2020

Buyer

Tingley Rubber Corporation

Ref. No.

Hi-Vis YG PU on 210D Polyester, #KBS202109210D-1

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 gzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager

Page 1 Of 9

wx / lydiayang

Intertek Testing Services Sherizhen Guangzhou Branch

深圳天祥质量技术服务精展公司 州分公司

Room 02, 1-8/F. & Room 01, F13/F201/E301#402/H501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhou Science Cith, GETDB: Gra gzhou, Guangdong, China 广州经济技术开发区科 (现场第7) 二第一 [20] 房 01 房 101、E201、E301、E501、E605、51、E801
Tel: +86 208213 9001 日本 (日本) 1000 9989 ostcode: 510663









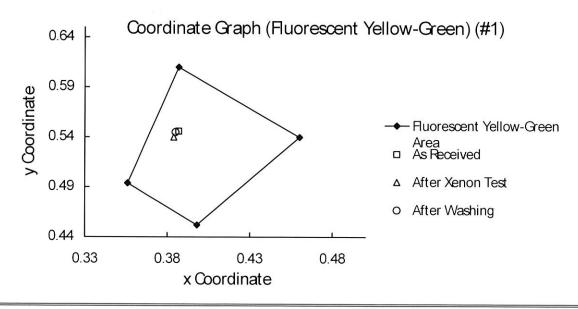
GZHT91069684

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

1 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°	0.3869	0.5460	113	-	-
	Yellow-	Received (#1)	90°	0.3868	0.5457	113	(E)	-
	Green		Mean	0.387	0.546	113	*	Pass
		After Xenon	0°	0.3839	0.5401	109	-	-
		Test (# & #1)	90°	0.3838	0.5405	109	(E)	-
			Mean	0.384	0.540	109	*	Pass
Note:	The Specimen	Is Backed By A B	ack Unde	rlay With A	Reflectance	e Of Less Than	0.04.	

Sample	Color	Pre-Condition	Chromaticity Coordinates		Total Luminance Factor	Applicant's Requirement	Pass/Fail	
			3	X	У	Y (%)		
-	Fluorescent	After Washing	0°	0.3847	0.5448	107	-	-
	Yellow-	(#1 & #2)	90°	0.3846	0.5448	108	-	-
	Green		Mean	0.385	0.545	108	*	Pass
Note:								



/ lydiayang

Intertek Testing Services Sherritek Ltd. Guangzhou Branch 深圳天祥质量投入报鉴策度公司、州分公司 Room 02, 1-8/F. & Room 01, Fate /F201/E301/E301/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou Gdelce Citt, GETDD Gara grhou, Guangdong, China 广州经济技术开发区科学版 按照 7 2 第 2 第 2 第 0 2 房、01 房 101、 E201、E301 上 101、 E501、E606、9 1 E801 Tel: +86 208213 900 Pax 增加加速度 989 ostcode: 510663

Page 2 Of 9









GZHT91069684

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: * =

Color	Chromaticity (Coordinates	Minimum Total Luminance Factor
	X	У	Y (%)
	0.387	0.610	
Fluorescent	0.356	0.494	70
Yellow-Green	0.398	0.452	70
	0.460	0.540	

- # = Xenon Test Based On AATCC 16.3-2014, Colorfastness To Light Xenon Arc. Expose The Materials To 40 AATCC Fading Units (170 KJ/m²@420nm).
- #1= Two Layers Of The Same Material
- #2 = ISO 6330:2012, Wash Condition:

es esserizerz, masir contaition.	
Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4 N
Bleaching Procedure:	H1
Drying Procedure:	-
Ironing Procedure:	-
Professional Textile Care Procedure:	-
Number Of Cycles:	25

/ lydiayang

Page 3 Of 9







GZHT91069684

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)℃

Relative Humidity:

 $(65 \pm 5)\%$

Period:

24 Hours

Sample	Test Condition	Results	Requirement	Pass / Fail
H	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) °C

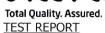
Test Period:

 $6 h \pm 5 min$

Sample			Results	Requirement	Pass / Fail
-	Color Change:	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		

Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, aipin Road, Guangzhoù Gence Cith, GETDB: Grangzhou, Guangdong, China 州经济技术开发区科学研究教育了。二第十一位是 02 房、01 房 101、 E201、E301 一位,E501、E602、第1、E801 Tel: +86 208213 9001 Pax 性限的 18039989 ostcode: 510663 No.7-2, Caipin Road, Guangzhou 广州经济技术开发区科学城





Tests Conducted (As Requested By The Applicant)



Number:

GZHT91069684

Page 5 Of 9

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		Resu	lts	Requirement	Pass / Fail
-	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		

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)°C

Water Volume:

250 ml

Spray Time

25 - 30 Seconds

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

Remark: * = AATCC 135-2018 (Home Laundering)

/ lydiayang

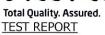
Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量技术服务解限公司 州分公司

Tel: +86 208213 9001 Fax

ostcode: 510663





Tests Conducted (As Requested By The Applicant)



Number:

GZHT91069684

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

Specimen Conditioning:

Temperature:

(20±2)℃

Relative Humidity:

 $(65 \pm 5)\%$

Period:

24 Hours

Test Condition:

Equipment Type:

Hydrostatic Head Tester

Water Temperature:

(21±2)°C

Gradient

60 mbar/min

Sample	Pre-treatment	Specimen	Results	Requirement	Pass/Fail
-	- As Received	1	> 500 cm	Min. 200 cm	Pass
		2	> 500 cm	Min. 200 cm	Pass
		3	> 500 cm	Min. 200 cm	Pass
		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 (Home Laundering)

/ lydiayang

Intertek Testing Services Shenzhen Ltd Guangzhou Branch

深圳天祥质量技术服务角限公司 州分公司 E10 /E201/E301/E403/E501/E601/E701/E801, Room 02, 1-8/F. & Room 01, No.7-2, Caipin Road, Guangzhou GETDD: Grangzhou, Guangdong, China 二第十二章 02 房、01 房 101、

广州经济技术开发区科 E201, E30

Tel: +86 208213 900 ostcode: 510663





Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)

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°F (Domestic Laundry)

Sample			Results	Requirement	Pass / Fail
-	Color Change:		Grade 4.5	Min. Grade 4.5	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		
		-Wool	Grade 4.5	,	

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

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:

Sample		Results	Requirement	Pass / Fail
-	Length	-0.4%	*	Pass
	Width	-0.4%	*	Pass

Remark: * =

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

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

/ lydiayang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 深圳天祥质量技 州分公司 Room 02, 1-8/F. & Room 01, No.7-2, Caipin Road, Guangzhous £101/E201/E301/E401/E501/E601/E701/E801, GETDD: Grangzhou, Guangdong, China

广州经济技术开发区科 02 房、01 房 101、 E201, E30 Tel: +86 208213 900

ostcode: 510663







GZHT91069684

Total Quality. Assured.
TEST REPORT

Tests Conducted (As Requested By The Applicant)

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	19.6 N	=	-
	3	18.6 N	PA PA	=
	4	19.0 N	=	-
	5	18.2 N	-	-
	Average	18.9 N	Min. 13 N	Pass
	Specimen	Cross-Machine Direction	Requirement	Pass/Fail
	1	14.2 N	-	_
	2	14.2 N	-	121
	3	15.4 N	=	_
	4	15.0 N	12	-
	5	13.8 N		(a)
	Average	14.5 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

Page 8 Of 9







中国认可 国际互认 检测 TESTING CNAS L0220

Number:

GZHT91069684



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

E201、E301、E301、E501、E60 Tel: +86 208213 9001 Fax: 18620 820

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 Floring
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

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 1

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 Conformality Declaration Released By Manufacturer.

Authorized By:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Guiliang Dong

Senior Lab Manager

Page 1 Of 1









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 gzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong

Senior Lab Manager

MR / lydiayang

Page 1 Of 6

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

深圳天祥质量**1.3 次原系特像公司**广州分公司 Room 02, 1-8/F. & Room 01, F. 19 1/E201/E301/E404/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou

GETDD: Brangzhou, Guangdong, China 二第一人表 92 房、01 房 101、 E60版, 知 E801 广州经济技术开发区科学城 E201, E30

Tel: +86 208213 9001 Fax: 1 80 8208 9909 ostcode: 510663



Tests Conducted (As Requested By The Applicant)





中国认可 国际互认 检测 **TESTING CNAS L0220**

Number:

GZHT91065188

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

Sample	Observation Angle	Entrance Angle β_1 (β_2 =0)	Coeffici Retroref 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·m²) (*)	Pass
		20°	366	363	Min. 200/150 cd/(lx·m²) (*)	Pass
		30°	359	354	Min. 170/128 cd/(lx·m²) (*)	Pass
		40°	326	312	Min. 60/45 cd/(lx·m²) (*)	Pass
	1.0°	5°	34.1	34.1	Min. 25/18.8 cd/(lx·m²) (*)	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.

/ lydiayang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 深圳天祥质量技 州分公司 Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, aipin Road, Guangzhous dence Cith, GETDB: Guangzhou, Guangdong, China 州经济技术开发区科学研究领路7 二第十 62 02 房、01 房 101、 E201、E301 — [42]、E501、E602、第1、E801 Tel: +86 208213 9001 Pax 性限分泌2089989 Jostcode: 510663 No.7-2, Caipin Road, Guangzhou Science City 广州经济技术开发区科学研制预路 7 E201、E301、A124、E501、





TEST REPORT

Tests Conducted (As Requested By The Applicant)

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 β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
	0.20° [12']	5°	482 cd/(lx·m²)	Min. 100 cd/(lx·m ²)	Pass

Sample		,	y-Direction (Vertical: ε=90°)	
-	Observation Angle	Entrance Angle β_1 ($\beta_2 = 0^{\circ}$)	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
	0.20° [12′]	5°	481 cd/(lx·m²)	Min. 75 cd/(lx·m ²)	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 β_1 ($\beta_2 = 0^{\circ}$)	Coefficient Of Retroreflection	Requirement	Pass / Fail
	0.20° [12′]	5°	424 cd/(lx·m ²)	Min. 100 cd/(lx·m ²)	Pass

Sample		,	y-Direction (Vertical: ε=90°)	
-	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
	0.20° [12′]	5°	418 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass

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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: $\varepsilon = 0^{\circ}$)						
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail			
-	0.20° [12']	5°	461 cd/(lx·m²)	Min. 100 cd/(lx·m ²)	Pass			

Sample		,	y-Direction (Vertical: ε=90°)	
	Observation Angle	Entrance Angle β_1 ($\beta_2 = 0^{\circ}$)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	457 cd/(lx·m²)	Min. 75 cd/(lx·m ²)	Pass

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°; Immediately Followed By
	c) For At Least 2 H At 20±2℃ And 65±5 % Relative Humidity

Sample		x-Direction (Horizontal: $\varepsilon=0^{\circ}$)						
	Observation Angle	Entrance Angle β_1 ($\beta_2 = 0^{\circ}$)	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail			
-	0.20° [12′]	5°	455 cd/(lx·m ²)	Min. 100 cd/(lx·m ²)	Pass			

Sample	y-Direction (Vertical: ε =90°)						
	Observation Angle	Entrance Angle β_1 ($\beta_2 = 0^{\circ}$)	Coefficient Of Retroreflection	Requirement	Pass / Fail		
-	0.20° [12′]	5°	452 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass		

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

Wash Condition:

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℃.
Ironing Procedure:	-
Professional Textile Care Procedure:	-
Number Of Cycles:	25

Sample	x-Direction (Horizontal: ε=0°)					
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail	
= -	0.20° [12′]	5°	154 cd/(lx·m²)	Min. 100 cd/(lx·m²)	Pass	

Sample		y-Direction (Vertical: ε =90 $^{\circ}$)							
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail				
-	0.20° [12′]	5°	125 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass				

7 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: $\varepsilon = 0^{\circ}$)						
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail			
-	0.20° [12']	5°	290 cd/(lx·m ²)	Min. 100 cd/(lx·m²)	Pass			

Sample	y-Direction (Vertical: ε =90 $^{\circ}$)						
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail		
-	0.20° [12′]	5°	276 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass		

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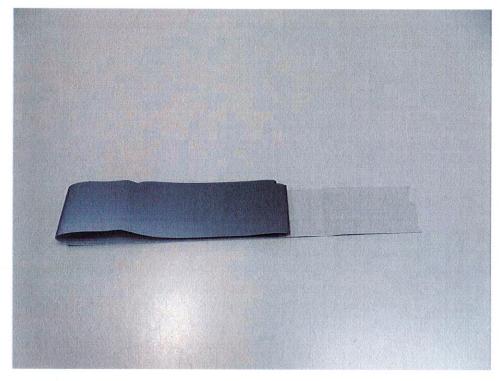
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End Of Report

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