E3. Declaration of Conformity

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

Certificate No. J26142-2020		
	Rubber Corporation Washington Ave., Suite 403 way, NJ 08854	
Product information (name, model nu Narwhal Jacket, Fluorescent Yellow-0 Model Number: J26142	mber, part number or other info	ormation as applicable):
Company declares that the above pro compliant high-visibility safety item for tested with documents referenced und	Performance Class 3., Type der this certificate number. This der appropriate amount of visi	s as stated in ANSI/ISEA 107-2020 as a e.R.; All relevant materials have been item meets all design ble reflective material and background
VISIBLE BACKGROUND MATER Amount of visible background materials.		>0.80m² (1240 in.²)
-	es towards the amount VISIBL	E BACKGROUND MATERIAL listed above.
Test Lab: Intertek	Material Type: □Knitted	X Woven □ Other:
Report #: GZHT91074189	Material Content (such as PU on Polyester	Polyester, Modacrylic, and others):
Date: 12/08/2021	Weight: 5.5 oz	Color: Fl. Yellow-Green
Description: Interior Coated Polyure	thane on 300D Woven Polyest	er with Exterior DWR Coating
Material 2 Identification		
Test Lab:	Material Type: □Knitted	□ Woven □ Other:
Report #:	Material Content (such as	Polyester, Modacrylic, and others):
Date:	Weight:	Color:
Description:		
Material 3 Identification		
Test Lab:	Material Type: □Knitted	□ Woven □ Other:
Report #:	Material Content (such 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)
Ρ	lease 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.		al Overall Luminance testing is attached.
Т	he undersigned hereby warrants that he/s	she is authorized to legally bind the company identified above.
S	igned: Myhan BOWS	Title: Product Manager
Ρ	rint Name: Meghan Bowser	



Certificate of Test

Issued To:

TRC NANJING REPRESENTATIVE OFFICE

Our Reference No.: GZHT9107418902

ROOM 1809,#3 BUILDING,

Certificate Issue Date: Dec 08, 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 YG PU on 300D 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.: GZHT91074189

Dated: Dec 08, 2021

Note:

- 1 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 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







Number:

Date:

GZHT91074189

Dec 08, 2021

Applicant:

TEST REPORT

TRC NANJING REPRESENTATIVE OFFICE

ROOM 1809, #3 BUILDING,

DEYING INT'L PLAZA, #222 CHANGHONG ROAD,

YUHUATAI DISTRICT, NANJING 210012

ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis YG PU on 300D Polyester.

Standard

ANSI/ISEA 107-2020

Buyer

Tingley Rubber Corporation

Ref. No.

Hi-Vis YG PU on 300D Polyester, #ZY202109053

Goods Exported to

U.S.A

Date Received/Date Test Started:

Oct 28, 2021

Date Final Information Confirmed/ --/Dec 07, 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 Sherrichet Ltd Guangzhou Branch

深圳天祥质量技术服务精展公司广州分公司

Room 02, 1-8/F. & Room 01, F164/F201/E3012E402/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou Scielce Cita, GETDB 3rd gzhou, Guangdong, China 广州经济技术开发区科学研制资格 7 二第十 起 02 房、01 房 101、E201、E301、E301、E501、E605、101、E801
Tel: +86 208213 9001 (本: 增度公司 30159309) ostcode: 510663





Tests Conducted (As Requested By The Applicant)





中国认可 国际互认 检测 **TESTING CNAS L0220**

Page 2 Of 9

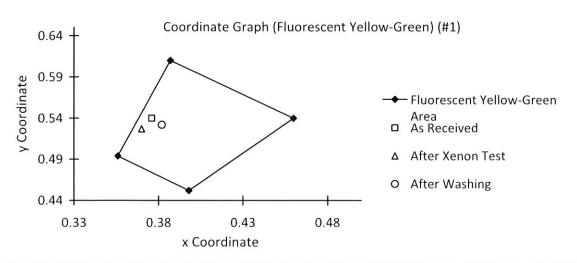
Number:

GZHT91074189

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	
			ε	X	у	Y (%)		
-	Fluorescent	As	0°	0.3762	0.5403	107	-	-
	Yellow-	Received (#1)	90°	0.3763	0.5398	108	-	-
	Green		Mean	0.376	0.540	107	*	Pass
		After Xenon	0°	0.3702	0.5266	104	-	-
		Test (# & #1)	90°	0.3705	0.5266	103	-	-
		300174 3000743	Mean	0.370	0.527	104	*	Pass
Note:	The Specimen	Is Backed By A B	ack Unde	erlay With	A Reflecta	nce Of Less T	han 0.04	

Sample	Color	Pre-Condition	Chromaticity Coordinates		Total Luminance Factor	Applicant's Requirement	Pass/Fail		
			ε	×	У	Y (%)	50		
-	Fluorescent	After Washing	0°	0.3824	0.5316	98	-	-	
	Yellow-	(#1 & #2)	90°	0.3812	0.5333	98	-	-	
	Green	25	Mean	0.382	0.532	98	*	Pass	
Note:	100 (200 (200 (200 (200 (200 (200 (200 (



/ 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





Number:

GZHT91074189

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 (%)	
Fluorescent	0.387	0.610		
	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 = Single Layer
- ISO 6330:2012, Wash Condition: #2 =

30 0350.2012, Wash Condition.	
Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4N
Bleaching Procedure:	-
Drying Procedure:	Line Dry
Ironing Procedure:	-
Professional Textile Care Procedure:	•
Number Of Cycles:	25

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Page 4 Of 9

Number:

GZHT91074189

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
-	Dry	Grade 4.5	Min. Grade 3.0	Pass
	Wet	Grade 4.5	Min. Grade 3.0	Pass

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

No.7-2, Caipin Road, Guangzhou Scielce Cith, GFTDD: Grang gzhou, Guangdong, China 广州经济技术开发区科 (2011)。 E2011、E3011 (E501)。 E5011、E605 (2011) E801

Tel: +86 208213 9001 Pax: 神論 2089909

ostcode: 510663





Number:

GZHT91074189

TEST REPORT

Tests Conducted (As Requested By The Applicant)

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		F	Results	Requirement	Pass / Fail
-	Color Change: Gr		Grade 4.5	Min. Grade 3.0	Pass
	Staining	-Acetate	Grade 4.5		
		-Cotton	Grade 4.5		
		-Nylon	Grade 4.0		
		-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:

 $(65\pm5)\%$

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 (*)	80	Min. 70	Pass

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

/ lydiayang

Intertek Testing Services Shenzhen to Guangzhou Branch

深圳天祥质量技术服务精限公司广州分公司





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Number:

GZHT91074189

Tests Conducted (As Requested By The Applicant)

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)℃

Gradient

60 mbar/min

Sample	Pre-treatment	Specimen	Results	Requirement	Pass/Fail
-		1	> 500 cm	Min. 200 cm	Pass
	As Received	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
3. 5 .	- 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 Sherize的人 Guangzhou Branch 深圳天祥质量技术服务 解 列 州分公司
Room 02, 1-8/F. & Room 01, 103/E201/E301/E401/E501/E601/E701/E801,
No.7-2, Caipin Road, Guangzhoù Gejèce Cuth, GETDB, Grai gzhou, Guangdong, China广州经济技术开发区科 网络 第7 二第十二章 02 房、01 房 101、E201、E301广大学、E501、E605、101、E801
Tel: +86 208213 9001 Fax 增加 第399 ostcode: 510663





Tests Conducted (As Requested By The Applicant)

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°F (Domestic Laundry)

Sample		R	esults	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 4.0		

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	Requirement	Pass / Fail
-	Length	-0.8%	*	Pass
	Width	-0.4%	*	Pass

Remark: * =

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

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

/ lydiayang

Intertek Testing Services Shell Left Ltd. Guangzhou Branch 深圳天祥质量接入服务场准之间,州分公司 Room 02, 1-8/F. & Room 05 F15 / E201/E30124 (2) H501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou Gealee Cith, GETDB Bra gzhou, Guangdong, China 广州经济技术开发区科 (2) 上海 102 房、01 房 101、 E201、E301 人民、E501、E605 (201) E801

Tel: +86 208213 9001 Fax: 4 86 20829999 ostcode: 510663

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Tests Conducted (As Requested By The Applicant)

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

Preconditioning:

Temperature:

(20±2)℃

Relative Humidity:

 $(65\pm5)\%$

Period:

24 hours

Sample	Specimen	Machine Direction	Requirement	Pass/Fail
-	1	46.2 N		
	2	41.8 N	=8	-
	3	42.8 N	-	-
	4	40.9 N	-	-
	5	43.9 N	-	
	Average	43.1 N	Min. 13 N	Pass
	Specimen	Cross-Machine Direction	Requirement	Pass/Fail
	1	39.6 N	-	-
	2	38.8 N	-	-
	3	41.3 N	-	-
	4	36.6 N	-	-
	5	35.7 N	-	-
	Average	38.4 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

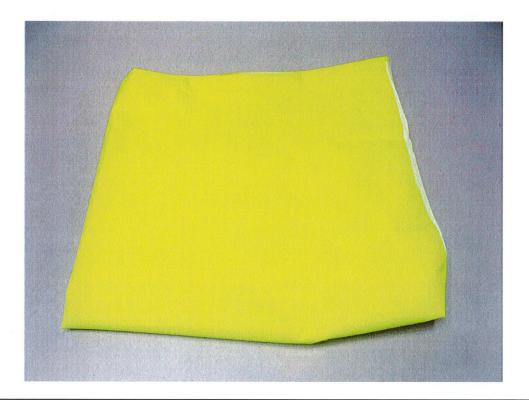
Page 8 Of 9





Number:

GZHT91074189



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.



Certificate of Test

Issued To:

TRC NANJING REPRESENTATIVE OFFICE

Our Reference No.: GZHT9106518802

ROOM 1809,#3 BUILDING,

Certificate Issue Date: Oct 18, 2021

DEYING INT'L PLAZA, #222 CHANGHONG

ROAD,

YUHUATAI DISTRICT, NANJING 210012

Attn: Description: ANNE WANG

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

Retroreflective Performance Phor 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

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

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

Intertek Testing Services Shenzhen Ltd Guangzhou Branch

深圳天祥质量技术服务精限公司广州分公司





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 gzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong

Senior Lab Manager

Page 1 Of 6

MR / lydiayang

Intertek Testing Services Sherizken 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 F15 7620 /E30 121-03/E601/E601/E701/E801,





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 β_1 (β_2 =0)	Coeffici Retroref cd/(lx	Tection	<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·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. $5/3.75 \text{ cd/(lx·m}^2)$ (*)	Pass
	21	40°	21.0	19.9	Min. 4/3 cd/($lx \cdot m^2$) (*)	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 Shenzher Ltd. Guangzhou Branch 深圳天祥质量技术服务解决。河州分公司

Page 2 Of 6





TEST REPORT Tests Conducted (As Requested By The Applicant)



Number:

GZHT91065188

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	<u>Requirement</u>	Pass / Fail
	0.20° [12']	5°	482 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°	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	Requirement	Pass / Fail
	0.20° [12′]	5°	418 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass

/ lydiayang

Page 3 Of 6





Tests Conducted (As Requested By The Applicant)

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 \pm 1)°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·m ²)	Min. 100 cd/(lx·m²)	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·m ²)	Min. 75 cd/(lx·m²)	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: $\varepsilon=0^{\circ}$)						
	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·m²)	Min. 100 cd/(lx·m ²)	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°	452 cd/(lx·m²)	Min. 75 cd/(lx·m²)	Pass		

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Tests Conducted (As Requested By The Applicant)

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

Wash Condition:

W. I. G. I. I	100 0000 0010
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: $\varepsilon=0^{\circ}$)						
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail			
-	0.20° [12′]	5°	154 cd/(lx·m ²)	Min. 100 cd/(lx·m ²)	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·m ²)	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 β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	290 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°	276 cd/(lx·m ²)	Min. 75 cd/(lx·m²)	Pass		

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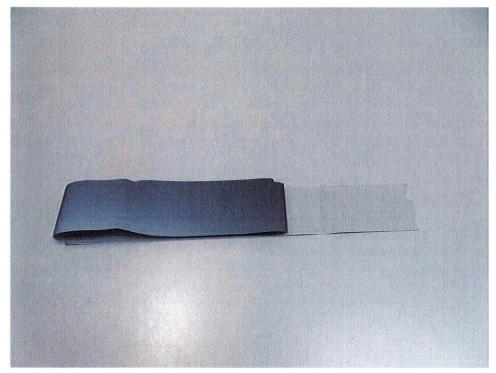
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Number:

GZHT91065188



End Of Report

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/ lydiayang

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