E3. Declaration of Conformity

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

Certificate No. V81522-2020
Supplier name and address: Tingley Rubber Corporation 1551 S. Washington Ave., Suite 403 Piscataway, NJ 08854
Product information (name, model number, part number or other information as applicable): Class 2 Job Sight FR Breakaway Vest, Fluorescent Yellow- Model Number: V81522
Company declares that the above product meets all set requirements as stated in ANSI/ISEA 107-2020 as a compliant high-visibility safety item for Performance Class__2__, Type __R__; All relevant materials have been tested with documents referenced under this certificate number. This item meets all design requirements and has been measured for appropriate amount of visible reflective material and background materials for the smallest size offered for this product.

1. VISIBLE BACKGROUND MATERIAL:

- Amount of visible background material (smallest size offered): >.50m² (775 in.²)

Please list each material that contributes towards the amount **VISIBLE BACKGROUND MATERIAL** listed above. Use separate sheet for addition materials.

Material 1 Identification

Test Lab: Intertek	Material Type: X Knitted ☐ Woven ☐ Other: _____
Report #: GZHT91062555	Material Content (such as Polyester, Modacrylic, and others): Modacrylic/Cotton Blend
Date: 10/14/2021	Weight: 6.4 oz Color: Fl. Yellow-Green
Description: 55% Modacrylic 45% Cotton Fleece Knit	

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 MATERIAL

• Amount of visible retroreflective material (smallest size offered) 0.20m² (310 in.²)

Please list each type of material that contributes towards **VISIBLE RETROREFLECTIVE MATERIAL** listed above.

Material 1 Identification

Test Lab: Intertek	
Report #: GZHT91094580	
Date: 02/17/2021	Style #: VF621A FR B
Description: 50mm Wide heat seal FR silver reflective trim	

Material 2 Identification

Test Lab:	
Report #:	
Date:	Style #:
Description:	

**Use separate sheet for additional materials*

3. OVERALL LUMINANCE

☐ Check here if test report for optional Overall Luminance testing is attached.

The undersigned hereby warrants that he/she is authorized to legally bind the company identified above.

Signed: Meghan Bowser Title: Product Manager

Print Name: Meghan Bowser Date: 8/17/22

Certificate of Test

Issued To: **TINGLEY RUBBER CORPORATION** Our Reference No.: GZHT9106255502

1551 S WASHINGTON AVESUITE 403 Certificate Issue Date: Sep 14, 2021

PISCATAWAY, NJ 08854

Attn: TIM CULLEN

Description: One (1) piece of submitted sample said to be knitted fabric (60%Modacrylic 40%cotton interlock, 250g/m2 in High Visibility Yellow Green).

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
Color Fastness To Laundry Of Background Material
Dimension Change Of Background Material
Bursting Strength

The test results are given in our report
No.: GZHT91062555 Dated: Sep 14, 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.
2 This Certificate Is Valid Only For The Applicant's Selected Test Items And Must Not Be Used Without The Attached Test Report.
3 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

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
深圳天祥质量技术服务有限公司广州分公司
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CNAS L0220

TEST REPORT

Number: GZHT91062555

Applicant: TINGLEY RUBBER CORPORATION
1551 S WASHINGTON AVESUITE 403
PISCATAWAY, NJ 08854

Date: Sep 14, 2021

Attn: TIM CULLEN

Sample Description:

One (1) piece of submitted sample said to be knitted fabric (60%Modacrylic 40%cotton interlock, 250g/m2 in High Visibility Yellow Green).

Standard	:	ANSI/ISEA 107-2020
Colour	:	High Visibility Yellow Green
Date Received/Date Test Started		Sep 03, 2021/Sep 03, 2021
Date Final Information Confirmed/ 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

MI / lynnyang

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
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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
			ε	x	y	Y (%)		
-	Fluorescent Yellow-Green	As Received (#1)	0°	0.3921	0.5200	85	-	-
			90°	0.3919	0.5203	85	-	-
			Mean	0.392	0.520	85	*	Pass
		After Xenon Test (# & #1)	0°	0.3824	0.4739	77	-	-
			90°	0.3825	0.4743	77	-	-
			Mean	0.382	0.474	77	*	Pass
Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04.								

Sample	Color	Pre-Condition	Chromaticity Coordinates			Total Luminance Factor	Applicant's Requirement	Pass/Fail
			ε	x	y	Y (%)		
-	Fluorescent Yellow-Green	After Washing (#1 & #2)	0°	0.3916	0.5201	86	-	-
			90°	0.3914	0.5196	86	-	-
			Mean	0.392	0.520	86	*	Pass
Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04.								

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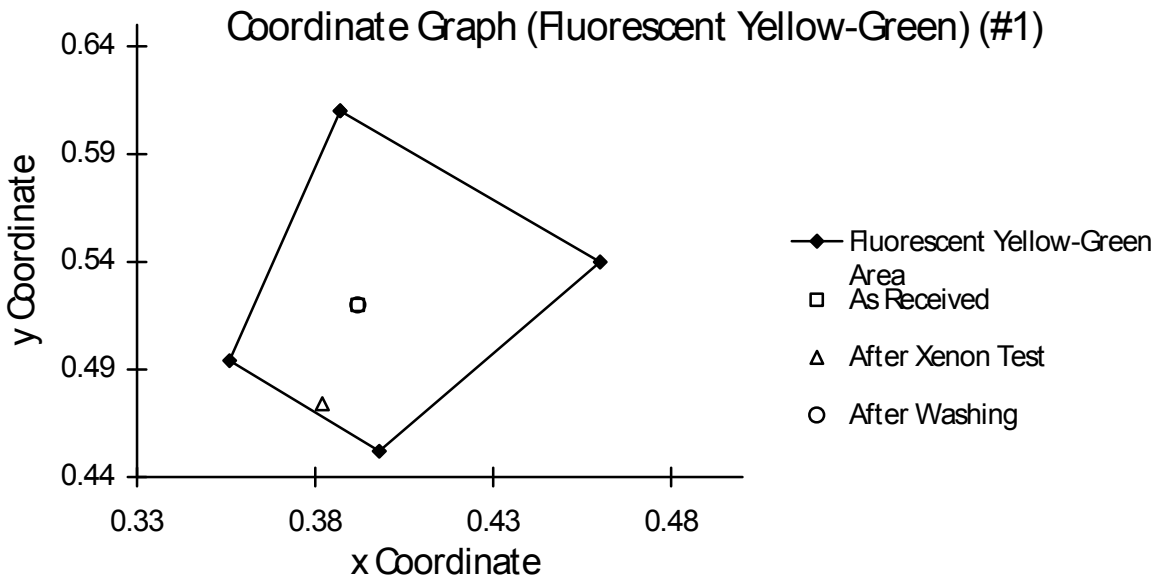
Tests Conducted (As Requested By The Applicant)

Color Performance Of Background And Combined-performance Materials (Cont)



Remark: * =

Color	Chromaticity Coordinates		Minimum Total Luminance Factor Y (%)
	x	y	
Fluorescent Yellow-Green	0.387 0.356 0.398 0.460	0.610 0.494 0.452 0.540	70
NOTE The Coordinate Of Sample Should Be Inside The Area Specified By The Table Above.			

= Xenon Test Based On AATCC 16.3-2014, Colorfastness To Light Xenon Arc. Expose The Materials To 40 AATCC Fading Units (170 KJ/m^2@420nm).

#1= Single Layer

#2 = ISO 6330:2012, Wash Condition:

Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4 N
Bleaching Procedure:	Do Not Bleach
Drying Procedure:	Tumble Drying Possible Low Temperature; Exhaust Temperature Max. 60 ℃
Ironing Procedure:	Do Not Iron
Professional Textile Care Procedure:	Do Not Dry Clean
Number Of Cycles:	25

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

Preconditioning:
Temperature: (20±2)℃
Relative Humidity: (65±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 ± 5 min

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

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

5 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℉ (Domestic Laundry)

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

Remark: This Test In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.
Remark: This Test Was Conducted At Room 801/901, No. 8, East BaoYing Road, Huangpu District, Guangzhou.

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

Test Condition:
Standard Code: AATCC 135-2012 (3)(lll)(A)(iii)
Cleaning Cycles: 5

Sample	Results		Requirement	Pass / Fail
	Length	-3.2%	*	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 In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.

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

7 Bursting Strength Of Knitted Materials And Other Nonwoven Constructions (ANSI/ISEA 107-2020, 8.4.1 & ASTM D6797-07(2015))

Preconditioning:
Temperature: (20±2)℃
Relative Humidity: (65±5)%
Period: 24 Hours

Sample	Specimen	Results	Requirement	Pass/Fail
	1	430.5 N	Min. 178 N	Pass
	2	417.0 N	Min. 178 N	Pass
	3	404.0 N	Min. 178 N	Pass
	4	401.5 N	Min. 178 N	Pass
	5	394.5 N	Min. 178 N	Pass
	Average	409.5 N	Min. 178 N	Pass

Remark: N = Newton

Remark: This Test In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.

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

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End Of Report

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
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Certificate of Test

Issued To: **TRC NANJING REPRESENTATIVE OFFICE**
ROOM 1809,#3 BUILDING,
DEYING INT'L PLAZA,#222 CHANGHONG ROAD,
YUHUATAI DISTRICT,NANJING 210012

Our Reference No.: GZHT9109458002

Certificate Issue Date: Feb 17, 2022

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Hi-Vis VF621A FR B Reflective Tape，#20211015.

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.: GZHT91094580 Dated: Feb 17, 2022

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.
2 This Certificate Is Valid Only For The Applicant's Selected Test Items And Must Not Be Used Without The Attached Test Report.
3 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

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch
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TEST REPORT

Number: GZHT91094580

Applicant: TRC NANJING REPRESENTATIVE OFFICE
ROOM 1809,#3 BUILDING,
DEYING INT'L PLAZA,#222 CHANGHONG ROAD,
YUHUATAI DISTRICT,NANJING 210012

Date: Feb 17, 2022

Attn: ANNE WANG

Sample Description:
One (1) piece of submitted sample said to be Hi-Vis VF621A FR B Reflective Tape，#20211015.

Standard	:	ANSI/ISEA 107-2020
Buyer	:	Tingley Rubber Corporation
Ref. No.	:	VF621A FR B Reflective Tape，#20211015
Goods Exported to	:	U.S.A.
Date Received/Date Test Started:		Jan 27, 2022
Date Final Information Confirmed/ Date Payment Received:		Feb 17, 2022/--

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

EC / lydiayang

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1 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)	Coefficient Of Retroreflection cd/(lx·m^2)		Requirement	Pass/Fail
-	0.20° [12′]	5°	538	538	Min. 330/248 cd/(lx·m^2) (*)	Pass
		20°	500	471	Min. 290/218 cd/(lx·m^2) (*)	Pass
		30°	441	397	Min. 180/135 cd/(lx·m^2) (*)	Pass
		40°	346	314	Min. 65/47 cd/(lx·m^2) (*)	Pass
	0.33° [20′]	5°	325	319	Min. 250/188 cd/(lx·m^2) (*)	Pass
		20°	298	297	Min. 200/150 cd/(lx·m^2) (*)	Pass
		30°	277	257	Min. 170/128 cd/(lx·m^2) (*)	Pass
		40°	219	213	Min. 60/45 cd/(lx·m^2) (*)	Pass
	1.0°	5°	61.8	60.3	Min. 25/18.8 cd/(lx·m^2) (*)	Pass
		20°	65.1	60.9	Min. 15/11.3 cd/(lx·m^2) (*)	Pass
		30°	70.8	62.4	Min. 12/9 cd/(lx·m^2) (*)	Pass
		40°	75.3	63.0	Min. 10/7.5 cd/(lx·m^2) (*)	Pass
	1.5° [1° 30′]	5°	16.4	15.7	Min. 10/7.5 cd/(lx·m^2) (*)	Pass
		20°	19.6	16.1	Min. 7/5.25 cd/(lx·m^2) (*)	Pass
		30°	24.5	17.4	Min. 5/3.75 cd/(lx·m^2) (*)	Pass
		40°	25.1	18.5	Min. 4/3 cd/(lx·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 ε1=0° And ε2=90° . Maximum Value Is Recorded On Left Side Of The Result Column And The Other Value On Right Side Of Test Result Column.

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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, 5000 Cycles

Sample	x-Direction (Horizontal: ε=0°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	507 cd/(lx·m^2)	Min. 100 cd/(lx·m^2)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	490 cd/(lx·m^2)	Min. 75 cd/(lx·m^2)	Pass

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

Test Exposure	Test Method
Flexing	ISO 7854:1995, Method A, 7500 Cycles

Sample	x-Direction (Horizontal: ε=0°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	472 cd/(lx·m^2)	Min. 100 cd/(lx·m^2)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	477 cd/(lx·m^2)	Min. 75 cd/(lx·m^2)	Pass

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4 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±1)℃ For 4 Hours

Sample	x-Direction (Horizontal: ε=0°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	521 cd/(lx·m^2)	Min. 100 cd/(lx·m^2)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	525 cd/(lx·m^2)	Min. 75 cd/(lx·m^2)	Pass

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

Test Exposure	Test Method
Temperature Variation	a) For 12 H At 50±2℃; Immediately Followed By 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: ε=0°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	513 cd/(lx·m^2)	Min. 100 cd/(lx·m^2)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	519 cd/(lx·m^2)	Min. 75 cd/(lx·m^2)	Pass

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

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 Dried The Samples 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 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	425 cd/(lx·m^2)	Min. 100 cd/(lx·m^2)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	432 cd/(lx·m^2)	Min. 75 cd/(lx·m^2)	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: ε=0°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	174 cd/(lx·m^2)	Min. 100 cd/(lx·m^2)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 (β_2 = 0°)	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12′]	5°	152 cd/(lx·m^2)	Min. 75 cd/(lx·m^2)	Pass

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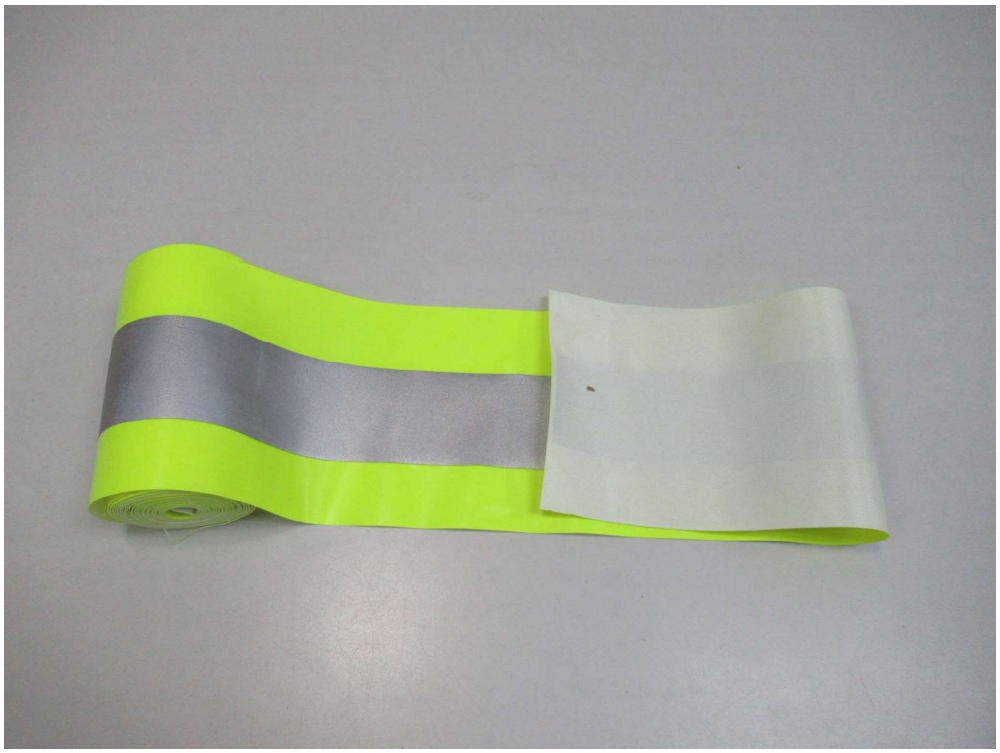

End Of Report

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