

**E3. Declaration of Conformity**

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

Certificate No. J44129-2020
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): Eclipse Jacket, Fluorescent Orange-Red Model Number: J44129
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 <u>3</u> , Type <u>R</u> ; 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): >0.80m<sup>2</sup> (1240 in.<sup>2</sup>)

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: <input type="checkbox"/> Knitted <input type="checkbox"/> Woven <input checked="" type="checkbox"/> Other: <u>Non-Woven</u>
Report #: GZHT91074437	Material Content (such as Polyester, Modacrylic, and others): <u>PVC coated non-woven Nomex</u>
Date: 11/11/2021	Weight: 10.3 oz      Color: Fl. Orange-Red
Description: Exterior coated Specialty FR PVC on non-woven Nomex	

**Material 2 Identification**

Test Lab:	Material Type: <input type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> Other: _____
Report #:	Material Content (such as Polyester, Modacrylic, and others):
Date:	Weight:      Color:
Description:	

**Material 3 Identification**

Test Lab:	Material Type: <input type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> 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) 0.20m<sup>2</sup> (310 in.<sup>2</sup>)

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

**Material 1 Identification**

Test Lab: Intertek	
Report #: GZHT91084575	
Date: 12/22/2021	Style #: VF621A
Description: 50mm wide FR heat seal 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:** TRC NANJING REPRESENTATIVE  
**OFFICE**  
ROOM 1809,#3 BUILDING,  
DEYING INT'L PLAZA,#222 CHANGHONG  
ROAD,  
YUHUATAI DISTRICT,NANJING 210012

Our Reference No.: GZHT9107443702

Certificate Issue Date: Nov 11, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Hi-Vis Orange FR PVC on Nomex.

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

The test results are given in our report  
No.: GZHT91074437 Dated: Nov 11, 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





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TEST REPORT



中国认可  
国际互认  
检测  
TESTING  
CNAS L0220

Number: GZHT91074437

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

Date: Nov 11, 2021

Attn: ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis Orange FR PVC on Nomex.  
Standard : ANSI/ISEA 107-2020  
Buyer : Tingley Rubber Corporation  
Ref. No. : Hi-Vis OR FR PVC on Nomex, #2027823/0  
Goods Exported to : U.S.A  
Date Received/Date Test Started Oct. 29, 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](mailto:gzfootwear@intertek.com)

Authorized By:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch

Guiliang Dong  
Senior Lab Manager



MR / lydiayang

**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  
Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,  
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, Guangdong, China  
广州经济技术开发区科学城彩频路7号之二第1-8层 02房、01房 101、  
E201、E301、E401、E501、E601、E701、E801  
Tel: +86 208213 9001 Fax: +86 20 82089909 Postcode: 510663



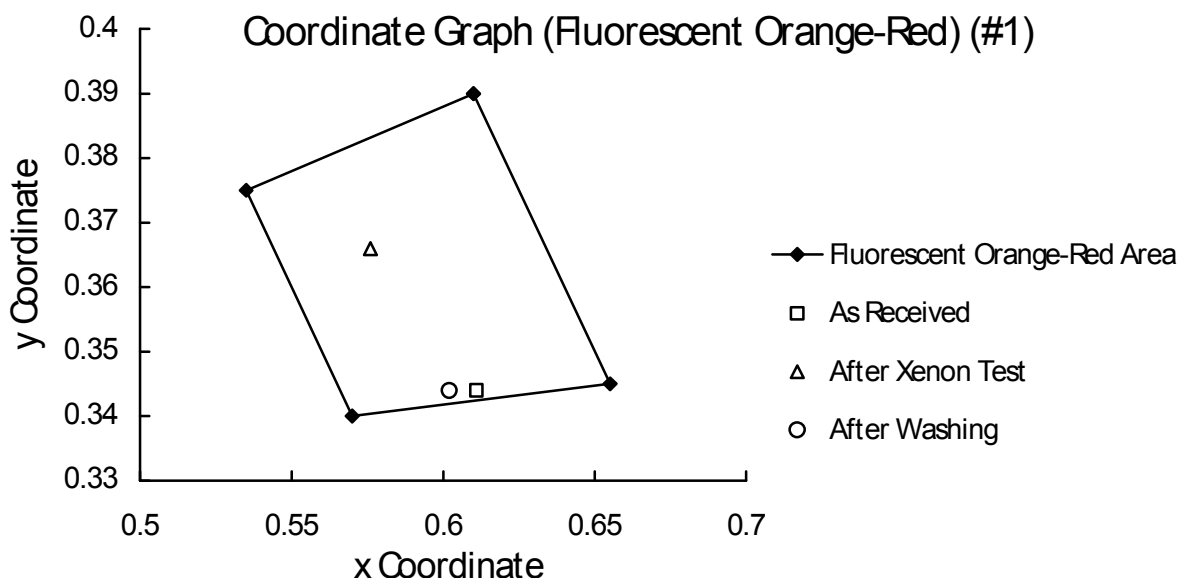
1 Color Performance Of Background And Combined-performance Materials (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.1.2 (After Xenon Test) & ASTM E1164-17)

Sample	Color	Pre-condition	Chromaticity Coordinates			Total Luminance Factor	Requirement	Pass/Fail
			$\epsilon$	x	y	Y (%)		
-	Fluorescent Orange-Red	As Received (#1)	0°	0.6140	0.3445	43	-	-
			90°	0.6086	0.3441	43	-	-
			Mean	0.611	0.344	43	*	Pass
		After Xenon Test (# & #1)	0°	0.5751	0.3668	44	-	-
			90°	0.5764	0.3661	44	-	-
			Mean	0.576	0.366	44	*	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
			$\epsilon$	x	y	Y (%)		
-	Fluorescent Orange-Red	After Washing (#1 & #2)	0°	0.6005	0.3439	43	-	-
			90°	0.6031	0.3440	43	-	-
			Mean	0.602	0.344	43	*	Pass

Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04.





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

Remark: \* =

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

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<sup>2</sup>@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:	-
Drying Procedure:	Line Dry
Ironing Procedure:	-
Professional Textile Care Procedure:	-
Number Of Cycles:	25

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

Preconditioning:

Temperature: (20 ± 2)°C

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) °C  
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				

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

Specimen Conditioning:

Temperature: (20 ± 2)°C

Relative Humidity: (65 ± 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
	After 5 Laundry Cycles(*)	1	> 500 cm	Min. 200 cm	Pass
		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)





6 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:		Min. Grade 3.0	Pass
	-Acetate	Grade 4.5		
	-Cotton	Grade 4.5		
	-Nylon	Grade 4.0		
	-Polyester	Grade 4.5		
	-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.

7 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	-1.6%	*	Pass
	Width	-0.8%	*	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.





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

Preconditioning:

Temperature:  $(20 \pm 2)^\circ\text{C}$

Relative Humidity:  $(65 \pm 5)\%$

Period: 24 Hours

Sample	Specimen	Results	Requirement	Pass/Fail
	1	251.0 N	Min. 178 N	Pass
	2	237.0 N	Min. 178 N	Pass
	3	243.0 N	Min. 178 N	Pass
	4	226.0 N	Min. 178 N	Pass
	5	250.0 N	Min. 178 N	Pass
	Average	241.5 N	Min. 178 N	Pass

Remark: N = Newton

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



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TEST REPORT

Tests Conducted (As Requested By The Applicant)



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检测  
TESTING  
CNAS L0220

Number: GZHT91074437



*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

Page 8 Of 8

**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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广州经济技术开发区科学城彩频路7号之二第二-八层 02房、01房 101、  
E201、E301、E401、E501、E601、E701、E801

Tel: +86 208213 9001 Fax: +86 20 82089909 Postcode: 510663



## 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.: GZHT9108457502

Certificate Issue Date: Dec 22, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Hi-Vis Yellow VF621A FR 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.: GZHT91084575 Dated: Dec 22, 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





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TEST REPORT



中国认可  
国际互认  
检测  
TESTING  
CNAS L0220

Number: GZHT91084575

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

Date: Dec 22, 2021

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis Yellow VF621A FR Reflective Tape.  
Standard : ANSI/ISEA 107-2020  
Buyer : Tingley Rubber Corporation  
Ref. No. : VF621A FR REFLECTIVE TAPE #20211011  
Goods Exported to : U.S.A.  
Date Received/Date Test Started: Dec 10, 2021/--  
Date Final Information Confirmed/ Dec 22, 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](mailto:gzfootwear@intertek.com)

Authorized By:  
For Intertek Testing Services Shenzhen Ltd.  
Guangzhou Branch

Guiliang Dong  
Senior Lab Manager

/ lynnyang



**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  
Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,  
No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, Guangdong, China  
广州经济技术开发区科学城彩频路7号之二第十一-八层 02房、01房 101、  
E201、E301、E401、E501、E601、E701、E801  
Tel: +86 208213 9001 Fax: +86 20 82089909 Postcode: 510663



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

Sample	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2=0$ )	Coefficient Of Retroreflection $cd/(lx \cdot m^2)$		Requirement	Pass/Fail
-	0.20° [12']	5°	452	440	Min. 330/248 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	436	432	Min. 290/218 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	400	377	Min. 180/135 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	293	248	Min. 65/47 $cd/(lx \cdot m^2)$ (*)	Pass
	0.33° [20']	5°	285	280	Min. 250/188 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	271	267	Min. 200/150 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	253	247	Min. 170/128 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	195	171	Min. 60/45 $cd/(lx \cdot m^2)$ (*)	Pass
	1.0°	5°	61.9	61.0	Min. 25/18.8 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	66.0	66.0	Min. 15/11.3 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	68.9	68.1	Min. 12/9 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	57.4	52.5	Min. 10/7.5 $cd/(lx \cdot m^2)$ (*)	Pass
	1.5° [1° 30']	5°	17.2	17.0	Min. 10/7.5 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	17.8	17.7	Min. 7/5.25 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	22.5	19.1	Min. 5/3.75 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	24.6	17.8	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.





## 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: $\epsilon=0^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	447 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\epsilon=90^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	445 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m <sup>2</sup> )	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: $\epsilon=0^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	417 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\epsilon=90^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	413 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m <sup>2</sup> )	Pass





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)°C For 4 Hours

Sample	x-Direction (Horizontal: $\epsilon=0^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	395 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\epsilon=90^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	371 cd/(lx·m <sup>2</sup> )	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
Temperature Variation	a) For 12 H At 50 ± 2°C; Immediately Followed By 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: $\epsilon=0^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	389 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\epsilon=90^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	381 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m <sup>2</sup> )	Pass





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 $50 \pm 5^\circ\text{C}$
Ironing Procedure:	-
Professional Textile Care Procedure:	-
Number Of Cycles:	25

Sample	x-Direction (Horizontal: $\epsilon=0^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	415 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\epsilon=90^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	393 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m <sup>2</sup> )	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: $\epsilon=0^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	242 cd/(lx·m <sup>2</sup> )	Min. 100 cd/(lx·m <sup>2</sup> )	Pass

Sample	y-Direction (Vertical: $\epsilon=90^\circ$ )				
	Observation Angle	Entrance Angle $\beta_1$ ( $\beta_2 = 0^\circ$ )	Coefficient Of Retroreflection	Requirement	Pass / Fail
-	0.20° [12']	5°	232 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m <sup>2</sup> )	Pass





*End Of Report*

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