

**E3. Declaration of Conformity**

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

Certificate No. V73859-2020
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 Mesh/Solid, Two Tone Surveyor Style Zipper Closure Vest, Fluorescent Orange-Red Model Number: V73859
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>2</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): >0.50m<sup>2</sup> (775 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 checked="" type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> Other: _____
Report #: GZHT91065370	Material Content (such as Polyester, Modacrylic, and others): 100% Polyester
Date: 10/18/2021	Weight: 3.05 oz                      Color: Fl. Orange-Red
Description: 100% Polyester Mesh	

**Material 2 Identification**

Test Lab: Intertek	Material Type: <input checked="" type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> Other: _____
Report #: GZHT91065356	Material Content (such as Polyester, Modacrylic, and others): 100% Polyester
Date: 10/18/2021	Weight: 3.05 oz                      Color: Fl. Orange-Red
Description: 100% Polyester Solid	

**Material 3 Identification**

Test Lab: Intertek	Material Type: <input checked="" type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> Other: _____
Report #: GZHT91065447	Material Content (such as Polyester, Modacrylic, and others): 100% Polyester
Date: 10/18/2021	Weight: 3.05 oz                      Color: Fl. Yellow-Green
Description: 100% Polyester Solid	

**Declaration of Conformity (page 2 of 2)****2. VISIBLE RETROREFLECTIVE MATERIAL**

• Amount of visible retroreflective material (smallest size offered) >0.13m<sup>2</sup> (201 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 #: GZHT91065162	
Date: 10/18/2021	Style #: 1303-2
Description: 50mm wide sew on 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.: GZHT9106537002

Certificate Issue Date: Oct 18, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Hi-Vis Orange Polyester Mesh, 110gsm.

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.: GZHT91065370 Dated: Oct 18, 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: GZHT91065370

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

Date: Oct 18, 2021

Attn: ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis Orange Polyester Mesh, 110gsm.  
Standard : ANSI/ISEA 107-2020  
Buyer : Tingley Rubber Corporation  
Ref. No. : Hi-Vis OR Polyester Mesh, 110gsm. #SF210815M  
Goods Exported to : U.S.A  
Date Received/Date Test Started Sep. 17, 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](mailto:gzfootwear@intertek.com)

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

Guiliang Dong  
Senior Lab Manager



BF / 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
			ε	x	y	Y (%)		
-	Fluorescent Orange - Red	As Received (#1)	0°	0.5958	0.3614	40	-	-
			90°	0.5956	0.3621	41	-	-
			Mean	0.596	0.362	41	*	Pass
		After Xenon Test (# & #1)	0°	0.5654	0.3648	44	-	-
			90°	0.5643	0.3645	43	-	-
			Mean	0.565	0.365	43	*	Pass

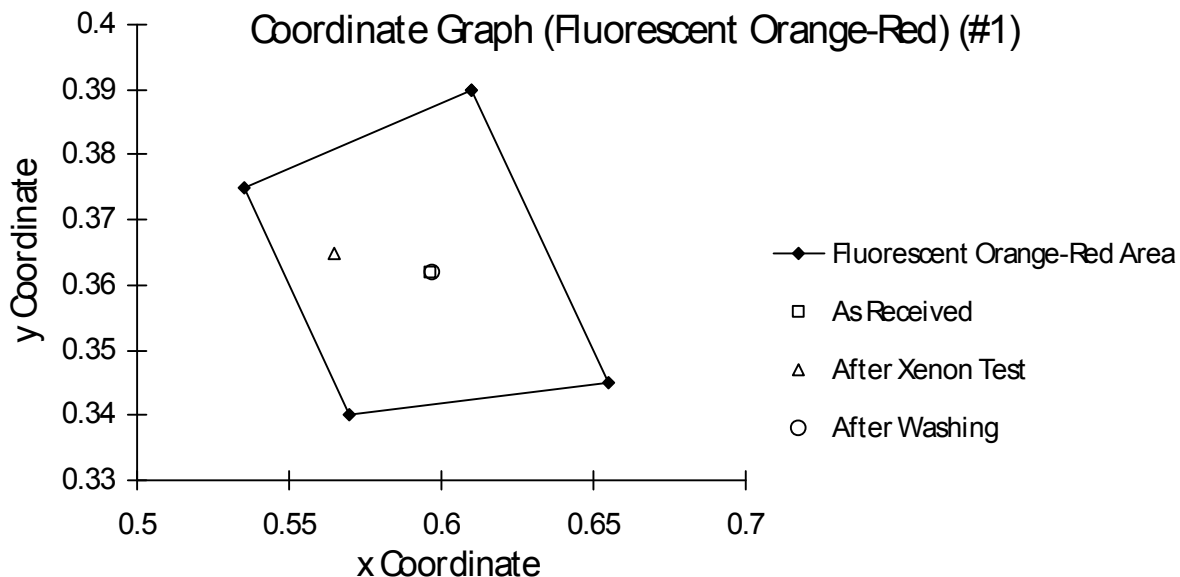
Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04.

Sample	Color	Pre-Condition	Chromaticity Coordinates			Total Luminance Factor	Applicant's Requirement	Pass/Fail
			ε	x	y	Y (%)		
-	Fluorescent Orange - Red	After Washing (#1 & #2)	0°	0.5968	0.3620	44	-	-
			90°	0.5963	0.3617	44	-	-
			Mean	0.597	0.362	44	*	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= Two Layers Of The Same Material

#2 = ISO 6330:2012, Wash Condition:

Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4N
Bleaching Procedure:	Do Not Bleach
Drying Procedure:	Do Not Tumble Dry
Ironing Procedure:	Do Not Iron
Professional Textile Care Procedure:	Do Not Dry Clean
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 4.0	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 4.0	Min. Grade 3.0	Pass
		-Cotton	Grade 4.0		
		-Nylon	Grade 4.0		
		-Polyester	Grade 4.5		
		-Acrylic	Grade 4.5		
	-Wool	Grade 4.0			



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 4.0	Min. Grade 3.0	Pass
		-Cotton	Grade 4.5		
		-Nylon	Grade 4.0		
		-Polyester	Grade 4.5		
		-Acrylic	Grade 4.5		
		-Wool	Grade 4.0		

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°F (Domestic Laundry)

Sample	Results		Requirement	Pass / Fail	
-	Color Change:		Grade 4.5	Min. Grade 4.5	Pass
	Color Stain:	-Acetate	Grade 3.5	Min. Grade 3.0	Pass
		-Cotton	Grade 4.0		
		-Nylon	Grade 3.0		
		-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. This Test In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.





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)(III)(A)(iii)  
Cleaning Cycles: 5

Sample	Results	Requirement	Pass / Fail
Length	-2.0%	*	Pass
Width	-2.4%	*	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. This Test In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.

7 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	428.5 N	Min. 178 N	Pass
	2	442.5 N	Min. 178 N	Pass
	3	441.5 N	Min. 178 N	Pass
	4	466.5 N	Min. 178 N	Pass
	5	424.0 N	Min. 178 N	Pass
	Average	440.5 N	Min. 178 N	Pass

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



# intertek

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TEST REPORT

Tests Conducted (As Requested By The Applicant)



中国认可  
国际互认  
检测  
TESTING  
CNAS L0220

Number: GZHT91065370



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End Of Report

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/ lydiayang

Page 7 Of 7

**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



## 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.: GZHT9106535602

Certificate Issue Date: Oct 18, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Hi-Vis Orange Polyester Knit, Solid, 120gsm.

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.: GZHT91065356 Dated: Oct 18, 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: GZHT91065356

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

Date: Oct 18, 2021

Attn: ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis Orange Polyester Knit, Solid, 120gsm.  
Standard : ANSI/ISEA 107-2020  
Buyer : Tingley Rubber Corporation  
Ref. No. : Hi-Vis OR Polyester Knit, Solid, 120gsm, #SF210820S  
Goods Exported to : U.S.A  
Date Received/Date Test Started Sep. 17, 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](mailto:gzfootwear@intertek.com)

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

Guiliang Dong  
Senior Lab Manager



bf / 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



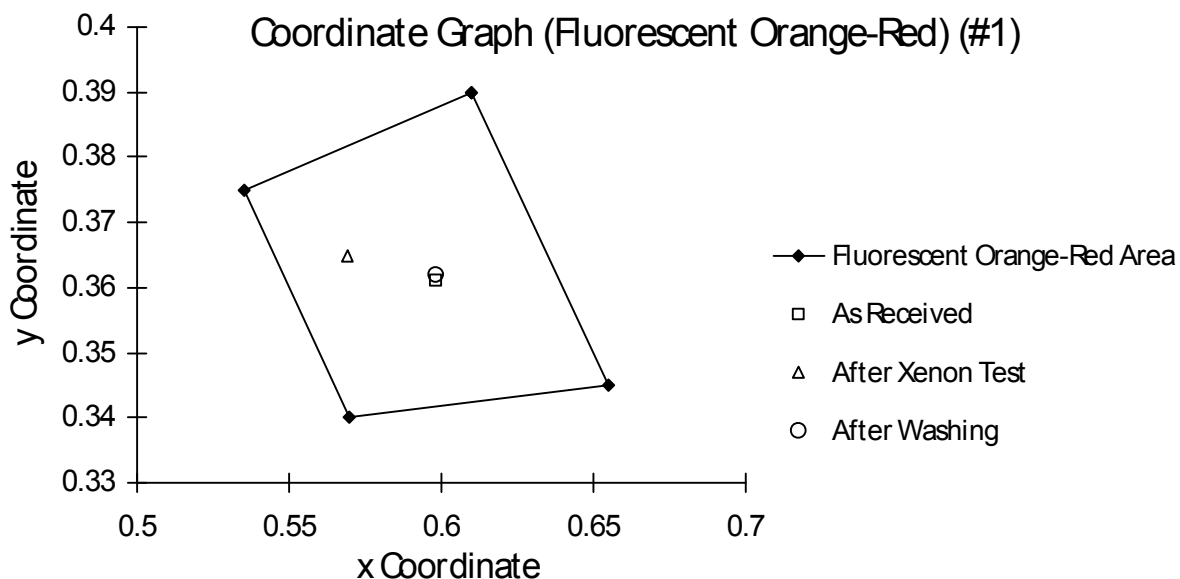
- Color Performance Of Background And Combined-performance Materials (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.1.2 (After Xenon Test) & ASTM E1164-17)

Sample	Color	Pre-condition	Chromaticity Coordinates			Total Luminance Factor	Requirement	Pass/Fail
			$\epsilon$	x	y	Y (%)		
-	Fluorescent Orange - Red	As Received (#1)	0°	0.5973	0.3617	43	-	-
			90°	0.5980	0.3611	43	-	-
			Mean	0.598	0.361	43	*	Pass
		After Xenon Test (# & #1)	0°	0.5688	0.3650	47	-	-
			90°	0.5693	0.3644	47	-	-
			Mean	0.569	0.365	47	*	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°	0.5981	0.3624	47	-	-
			90°	0.5984	0.3617	46	-	-
			Mean	0.598	0.362	47	*	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= Two Layers Of The Same Material

#2 = ISO 6330:2012, Wash Condition:

Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4N
Bleaching Procedure:	Do Not Bleach
Drying Procedure:	Do Not Tumble Dry
Ironing Procedure:	Do Not Iron
Professional Textile Care Procedure:	Do Not Dry Clean
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 4.0	Min. Grade 3.0	Pass	
	-Cotton	Grade 4.5			
	-Nylon	Grade 4.0			
	-Polyester	Grade 4.5			
-Acrylic	Grade 4.5				
-Wool	Grade 4.0				

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 4.0	Min. Grade 3.0	Pass	
	-Cotton	Grade 4.5			
	-Nylon	Grade 3.5			
	-Polyester	Grade 4.5			
	-Acrylic	Grade 4.5			
-Wool	Grade 4.0				



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°F (Domestic Laundry)

Sample	Results		Requirement	Pass / Fail
	Color Change:	Grade 4.5	Min. Grade 4.5	Pass
	Color Stain:			
	-Acetate	Grade 3.5	Min. Grade 3.0	Pass
	-Cotton	Grade 4.0		
	-Nylon	Grade 3.0		
	-Polyester	Grade 4.0		
	-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. This Test In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.

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)(III)(A)(iii)

Cleaning Cycles: 5

Sample	Results		Requirement	Pass / Fail
	Length	-2.0%	*	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. This Test In The Report Is Not Included In The CNAS Accreditation Schedule For Our Laboratory.







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) °C

Relative Humidity: (65 ± 5) %

Period: 24 Hours

Sample	Specimen	Results	Requirement	Pass/Fail
	1	557.0 N	Min. 178 N	Pass
	2	505.5 N	Min. 178 N	Pass
	3	518.5 N	Min. 178 N	Pass
	4	559.5 N	Min. 178 N	Pass
	5	568.0 N	Min. 178 N	Pass
	Average	542.0 N	Min. 178 N	Pass

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



**intertek**

Total Quality. Assured.

TEST REPORT

Tests Conducted (As Requested By The Applicant)



中国认可  
国际互认  
检测  
TESTING  
CNAS L0220

Number: GZHT91065356



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End Of Report

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/ lydiayang

Page 7 Of 7

**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



## 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.: GZHT9106544702

Certificate Issue Date: Oct 18, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Hi-Vis Yellow Polyester Knit, Solid, 120gsm.

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.: GZHT91065447 Dated: Oct 18, 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



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TESTING  
CNAS L0220

Number: GZHT91065447

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

Date: Oct 18, 2021

Sample Description:

One (1) piece of submitted sample said to be Hi-Vis Yellow Polyester Knit, Solid, 120gsm.  
Standard : ANSI/ISEA 107-2020  
Buyer : Tingley Rubber Corporation  
Ref. No. : Hi-Vis YG Polyester Knit, Solid, 120gsm, #SF210820S  
Goods Exported to : U.S.A  
Date Received/Date Test Started Sep. 17, 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](mailto:gzfootwear@intertek.com)

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

Guiliang Dong  
Senior Lab Manager



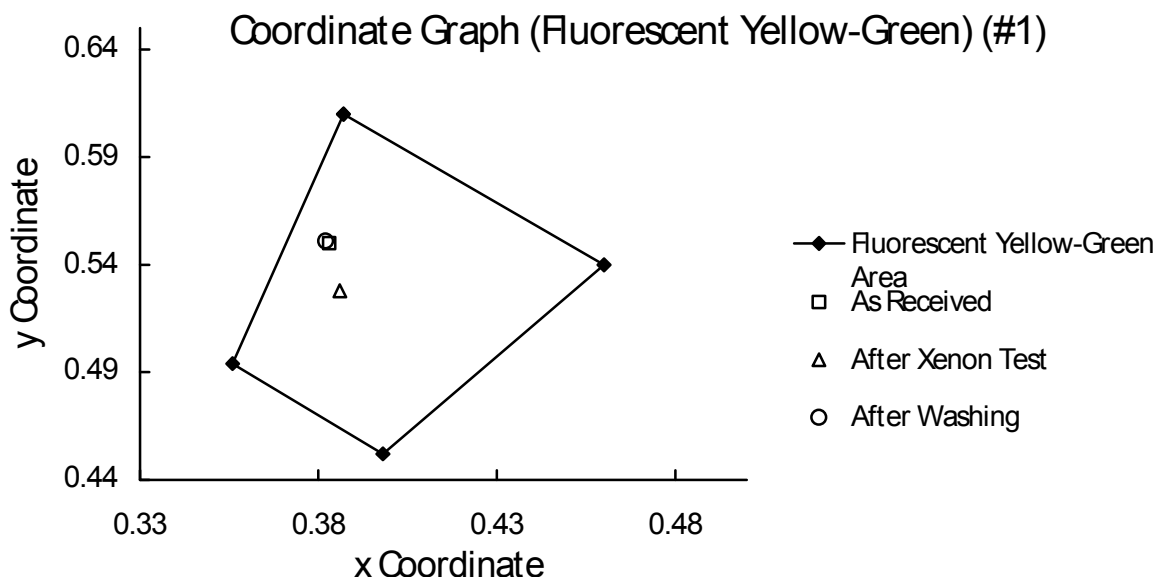
- Color Performance Of Background And Combined-performance Materials (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.1.2 (After Xenon Test) & ASTM E1164-17)

Sample	Color	Pre-condition	Chromaticity Coordinates			Total Luminance Factor	Requirement	Pass/Fail
			$\epsilon$	X	Y	Y (%)		
-	Fluorescent Yellow-Green	As Received (#1)	0°	0.3829	0.5504	101	-	-
			90°	0.3832	0.5498	101	-	-
			Mean	0.383	0.550	101	*	Pass
		After Xenon Test (# & #1)	0°	0.3859	0.5280	92	-	-
			90°	0.3858	0.5273	93	-	-
			Mean	0.386	0.528	92	*	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 Yellow-Green	After Washing (#1 & #2)	0°	0.3819	0.5510	105	-	-
			90°	0.3816	0.5515	105	-	-
			Mean	0.382	0.551	105	*	Pass

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





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CNAS L0220

Number: GZHT91065447

Cont

Remark: \* =

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

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= Two Layers Of The Same Material

#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:	-
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 4.0			
	-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 4.0	Min. Grade 3.0	Pass
	-Cotton	Grade 4.5		
	-Nylon	Grade 4.0		
	-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°F (Domestic Laundry)

Sample	Results		Requirement	Pass / Fail
	Color Change:	Grade 4.5	Min. Grade 4.5	Pass
	Color Stain:			
	-Acetate	Grade 3.0	Min. Grade 3.0	Pass
	-Cotton	Grade 3.5		
	-Nylon	Grade 3.0		
	-Polyester	Grade 3.5		
	-Acrylic	Grade 4.5		
	-Wool	Grade 3.5		

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

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







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)(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 $\pm 7\%$
Width	Not Exceed $\pm 5\%$

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

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

7 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	752.5 N	Min. 178 N	Pass
	2	732.5 N	Min. 178 N	Pass
	3	608.0 N	Min. 178 N	Pass
	4	672.5 N	Min. 178 N	Pass
	5	701.5 N	Min. 178 N	Pass
	Average	693.5 N	Min. 178 N	Pass

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

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



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TEST REPORT

Tests Conducted (As Requested By The Applicant)



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CNAS L0220

Number: GZHT91065447



*End Of Report*

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/

/ lydiayang

Page 7 Of 7

**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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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.: GZHT9106516202

Certificate Issue Date: Oct 18, 2021

Attn:

ANNE WANG

Description:

One (1) piece of submitted sample said to be Silver CS 1303-2 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.: GZHT91065162 Dated: Oct 18, 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 Conformality 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  
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TESTING  
CNAS L0220

Number: GZHT91065162

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

Date: Oct 18, 2021

Attn: ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Silver CS 1303-2 Reflective Tape.

Standard : ANSI/ISEA 107-2020  
Buyer : Tingley Rubber Corporation  
Ref. No. : CS 1303-2 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](mailto:gzfootwear@intertek.com)

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

Guiliang Dong  
Senior Lab Manager

JO / 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  
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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°	392	392	Min. 330/248 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	394	390	Min. 290/218 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	395	377	Min. 180/135 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	357	340	Min. 65/47 $cd/(lx \cdot m^2)$ (*)	Pass
	0.33° [20']	5°	269	269	Min. 250/188 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	276	272	Min. 200/150 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	277	263	Min. 170/128 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	254	247	Min. 60/45 $cd/(lx \cdot m^2)$ (*)	Pass
	1.0°	5°	44.2	43.6	Min. 25/18.8 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	42.7	41.6	Min. 15/11.3 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	40.4	38.8	Min. 12/9 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	35.6	33.0	Min. 10/7.5 $cd/(lx \cdot m^2)$ (*)	Pass
	1.5° [1° 30']	5°	19.3	19.3	Min. 10/7.5 $cd/(lx \cdot m^2)$ (*)	Pass
		20°	18.7	18.5	Min. 7/5.25 $cd/(lx \cdot m^2)$ (*)	Pass
		30°	18.1	17.4	Min. 5/3.75 $cd/(lx \cdot m^2)$ (*)	Pass
		40°	15.6	15.5	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, 5,000 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°	394 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°	388 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, 7,500 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°	377 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°	370 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°	380 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°	380 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°	386 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°	386 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 (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°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°	194 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°	193 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°	212 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°	160 cd/(lx·m <sup>2</sup> )	Min. 75 cd/(lx·m <sup>2</sup> )	Pass





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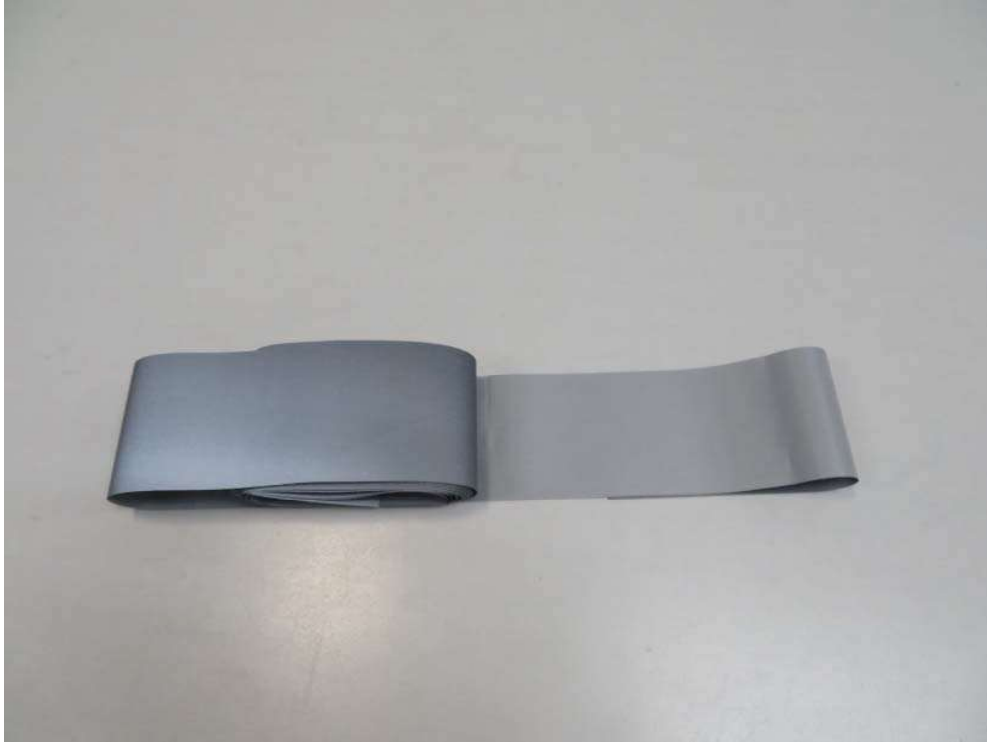
TEST REPORT

Tests Conducted (As Requested By The Applicant)



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CNAS L0220

Number: GZHT91065162



*End Of Report*

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/ lydiayang

Page 6 Of 6

**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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