E3. Declaration of Conformity

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

Certificate No. P70032-2020				
Supplier name and address: Tingley R	ubber Corporation			
	Washington Ave., Suite 403			
	ay, NJ 08854			
Class E Mesh Two-Tone Pants, Fluore	nber, part number or other information as applicable): scent Yellow-Green			
Model Number: P70032	South Follow Groom			
compliant high-visibility safety item for F documents referenced under this certific	uct meets all set requirements as stated in ANSI/ISEA 107-2020 as a Performance Class <u>E</u> ; All relevant materials have been tested with cate number. This item meets all design requirements and has been sible reflective material and background materials for the smallest size			
I. VISIBLE BACKGROUND MATERIA	AL:			
 Amount of visible background mat 	terial (smallest size offered): >0.30m² (465 in.²)			
Please list each material that contributes Jse separate sheet for addition material	s towards the amount VISIBLE BACKGROUND MATERIAL listed above.			
	5.			
Material 1 Identification	Material Type: X Knitted ☐ Woven ☐ Other:			
Test Lab: Intertek	——————————————————————————————————————			
Report #: GZHT91065435	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 Mesh				
Material 2 Identification				
Test Lab: Intertek	Material Type: X Knitted □ Woven □ Other: ————————————————————————————————————			
Report #: GZHT91065356	Material Content (such as Polyester, Modacrylic, and others): 100% Polyester			
Date: 10/18/2021	Weight: 3.05 oz Color: Orange-Red			
Description: 100% Polyester Solid				
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 M	ATERIAL
Amount of visible retroreflective mater	rial (smallest size offered) 0.07m² (109 in.²)
Please list each type of material that c	ontributes towards VISIBLE RETROREFLECTIVE MATERIAL listed above
Material 1 Identification	
Test Lab: Intertek	
Report #: GZHT91069017	
Date: 11/11/2021	Style #: VB211A
Description: 50mm wide sew on silv	er reflective trim
Material 2 Identification	
Test Lab:	
Report #:	
Date:	Style #:
Description:	
*Use separate sheet for additional ma	erials
3. OVERALL LUMINANCE	
	ional Overall Luminance testing is attached.
The undersigned hereby warrants that	he/she is authorized to legally bind the company identified above.
Signed: Mghan BOW	Title: Product Manager
Print Name: Meghan Bowser	Date: 8/17/22



Certificate of Test

Issued To: TRC NANJING REPRESENTATIVE Our Reference No.: GZHT9106543502

OFFICE

ROOM 1809.#3 BUILDING Certificate Issue Date: Oct 18, 2021

DEYING INT'L PLAZA, #222 CHANGHONG

ROAD.

YUHUATAI DISTRICT, NANJING 210012

ANNE WANG Attn:

Description: One (1) piece of submitted sample said to be Hi-Vis Yellow 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 Bursting Strength

The test results are given in our report No.: GZHT91065435 Dated: Oct 18 Dated: Oct 18, 2021

Note:

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

2

The Attached Test Report.

This Certificate Must Not Be Confused Neither With The EU Type Examination Certificate Released By Nofified Body Nor With The Conformaity Declaration Released By Manufacturer.

Authorized By:

For Intertek Testing Services Shenzhen Ltd. Guangzhou Branch

Guiliana Dona Senior Lab Manager





Date:

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 Hi-Vis Yellow Polyester Mesh, 110gsm.

Standard ANSI/ISEA 107-2020

Buyer **Tingley Rubber Corporation**

Ref. No. Hi-Vis YG Polyester Mesh, 110gsm, #SF210815M

Goods Exported to

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 qzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager

Page 1 Of 8

JO / lydiayang



Total Quality. Assured.

TEST REPORT





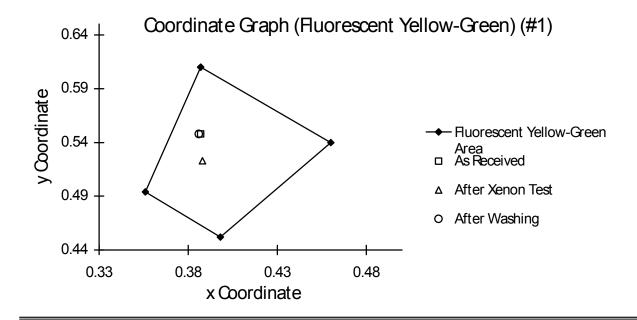
GZHT91065435 Number:

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)

Sample	Color	Pre-condition	Chrom	naticity Coo	rdinates	Total Luminance Factor	Requirement	Pass/Fail
			ε	Х	У	Y (%)		
-	Fluorescent	As	0°	0.3866	0.5475	91	-	-
	Yellow- Green	Received (#1)	90°	0.3867	0.5475	91	-	-
			Mean	0.387	0.548	91	*	Pass
		After Xenon	0°	0.3874	0.5233	83	-	-
		Test (# & #1)	90°	0.3881	0.5235	84	-	-
		•	Mean	0.388	0.523	84	*	Pass
Note:	The Specimen	Is Backed By A B	lack Unde	rlay With A	Reflectance	e Of Less Than	0.04.	

Sample	Color	Pre-Condition	Chromaticity Coordinates		Total Luminance Factor	Applicant's Requirement	Pass/Fail	
			ε	Х	У	Y (%)		
-	Fluorescent	After Washing	0°	0.3861	0.5486	96	-	-
	Yellow- Green	(#1 & #2)	90°	0.3867	0.5480	98	-	-
			Mean	0.386	0.548	97	*	Pass
Note:	7.000							



/ lydiayang

Page 2 Of 8

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 深圳天祥质量技术服务有限公司)州分公司 Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801,





Cont

Remark: * =

Х		1
	ј У	Y (%)
0.387	0.610	
0.356	0.494	70
0.398	0.452	70
0.460	0.540	
		0.356

- # = 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).
- Two Layers Of The Same Material. #1=
- ISO 6330:2012, Wash Condition: #2 =

Washing Standard:	ISO 6330:2012
Machine:	Type A
Reagent:	Reference Detergent 3
Washing Procedure:	4 N
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





Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)

Number: GZHT91065435

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

Preconditioning:

Temperature: (20±2)°C Relative Humidity: $(65\pm5)\%$ 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 (38 ± 1) ℃ Oven temperature: Test Period: $6 h \pm 5 min$

Sample			Requirement	Pass / Fail	
-	Color Change:		Grade 4.5	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		





Total Quality. Assured. **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 (38 ± 1) ℃ Oven Temperature: Test Period: 18 h

Sample			Requirement	Pass / Fail	
-	Color Change:		Grade 4.5	Min. Grade 3.0	Pass
	Staining	-Acetate	Grade 4.5		
		-Cotton	Grade 4.5		
		-Nylon	Grade 4.0		
		-Polyester	Grade 4.5	Min. Grade 3.0	Pass
		-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	<u>Requirement</u>	Pass / Fail
	Color Change:		Grade 4.5	Min. Grade 4.5	Pass
	Color Stain:	-Acetate	Grade 3.0		
		-Cotton	Grade 3.5		
		-Nylon	Grade 3.0		
		-Polyester	Grade 4.0	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.

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

/ lydiayang

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

Test Condition:

Standard Code: AATCC 135-2012 (3)(III)(A)(iii)

Cleaning Cycles:

Sample		Results	Requirement	Pass / Fail
	Length	-1.6%	*	Pass
	Width	-1.6%	*	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.





Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)

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: $(65\pm5)\%$ Period: 24 Hours

	1		T .	1
Sample	Specimen	Results	<u>Requirement</u>	Pass/Fail
	1	418.5 N	Min. 178 N	Pass
	2	420.0 N	Min. 178 N	Pass
	3	414.5 N	Min. 178 N	Pass
	4	427.0 N	Min. 178 N	Pass
	5	416.0 N	Min. 178 N	Pass
	Average	419.0 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.







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

TRC NANJING REPRESENTATIVE Issued To: Our Reference No.: GZHT9106535602

OFFICE

ROOM 1809,#3 BUILDING, Certificate Issue Date: Oct 18, 2021

DEYING INT'L PLAZA,#222 CHANGHONG

ROAD,

YUHUATAI DISTRICT, NANJING 210012

ANNE WANG Attn:

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:

- 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 2 The Attached Test Report.
- This Certificate Must Not Be Confused Neither With The EU Type Examination Certificate Released By Nofified Body Nor With The Conformalty Declaration Released By Manufacturer.

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliana Dona

Senior Lab Manager





Date:

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 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 qzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager

Page 1 Of 7

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TEST REPORT





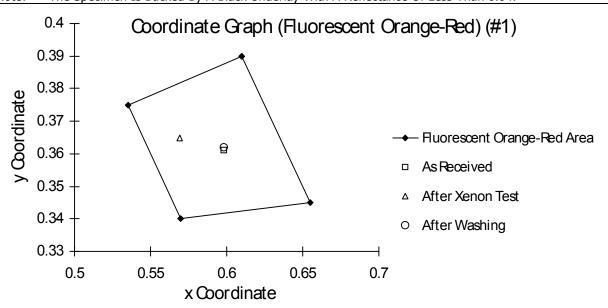
Number:

GZHT91065356

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)

Sample	Color	Pre-condition	Chromaticity Coordinates			Total Luminance Factor	Requirement	Pass/Fail
			3	Х	у	Y (%)		
	Fluorescent	As	0°	0.5973	0.3617	43	-	-
-	Orange -	Received (#1)	90°	0.5980	0.3611	43	=	-
	Red		Mean	0.598	0.361	43	*	Pass
		After Xenon	0°	0.5688	0.3650	47	-	-
		Test (# & #1)	90°	0.5693	0.3644	47	-	-
			Mean	0.569	0.365	47	*	Pass
Note:	The Specimen	Is Backed By A B	lack Unde	rlay With A	Reflectance	of Less Than	0.04.	
Sample	Color	Pre-Condition	Chromaticity Coordinates		Total Luminance Factor	<u>Applicant's</u> <u>Requirement</u>	Pass/Fail	
			3	X	у	Y (%)		
	Fluorescent	After Washing	0°	0.5981	0.3624	47	-	-
-	Orange -	(#1 & #2)	90°	0.5984	0.3617	46	-	-
	Red		Mean	0.598	0.362	47	*	Pass
Note:						0.04.		



/ lydiayang

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

Remark: * =

Color	Chromaticity	Coordinates	Minimum Total Luminance Factor	
	Х	у	Y (%)	
	0.610	0.390		
Fluorescent	0.535	0.375	40	
Orange-Red	0.570	0.340	40	
	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/m²@420nm).
- Two Layers Of The Same Material #1=
- #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)**℃ Relative Humidity: $(65\pm5)\%$ 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





Total Quality. Assured. **TEST REPORT**

Tests Conducted (As Requested By The Applicant)

3 Colorfastness To Perspiration Of Background Material (ANSI/ISEA 107-2020, 8.2.2 & AATCC 15-2013)

Test Condition:

Load: 4.54 kg (38 ± 1) ℃ Oven temperature: Test Period: $6 h \pm 5 min$

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

Colorfastness To Water Of Background Material (ANSI/ISEA 107-2020, 8.2.3 & AATCC 107-2013)

Test Condition:

Pressure: 4.5 kg (38 ± 1) ℃ Oven Temperature: Test Period: 18 h

Sample	Results			<u>Requirement</u>	Pass / Fail
	Color Change:		Grade 4.5	Min. Grade 3.0	Pass
	Staining	-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		





GZHT91065356 Number:

Tests Conducted (As Requested By The Applicant)

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

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

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

Test Condition:

Standard Code: AATCC 135-2012 (3)(III)(A)(iii)

Cleaning Cycles:

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 \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.

/ lydiayang





Number:

中国认可 国际互认 检测 **TESTING CNAS L0220**

Total Quality. Assured. **TEST REPORT** Tests Conducted (As Requested By The Applicant)

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: $(65\pm5)\%$ 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.







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

TRC NANJING REPRESENTATIVE OFFICE Issued To: Our Reference No.: GZHT9106901702

> ROOM 1809,#3 BUILDING, Certificate Issue Date: Nov 11, 2021

DEYING INT'L PLAZA,#222 CHANGHONG

ROAD.

YUHUATAI DISTRICT, NANJING 210012

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Silver VB211A WP 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.: GZHT91069017 Dated: Nov 11, 2021

Note:

- 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 2 The Attached Test Report.
- This Certificate Must Not Be Confused Neither With The EU Type Examination Certificate Released By Nofified Body Nor With The Conformalty Declaration Released By Manufacturer.

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager





Nov 11, 2021

Date:

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 VB211A WP Reflective Tape.

Standard ANSI/ISEA 107-2020

Buyer **Tingley Rubber Corporation**

VB211A WP Reflective Tape, #20210820-3 Ref.

Goods Exported to U.S.A.

Date Received/Date Test Started Oct. 09, 2021 Nov. 11, 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 qzfootwear@intertek.com

Authorized By:

For Intertek Testing Services Shenzhen Ltd.

Guangzhou Branch

Guiliang Dong Senior Lab Manager

Page 1 Of 6

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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·m²)		<u>Requirement</u>	Pass/Fail
-	0.20° [12′]	5°	504	500	Min. 330/248 cd/($lx \cdot m^2$) (*)	Pass
		20°	475	468	Min. 290/218 cd/(lx·m²) (*)	Pass
		30°	398	391	Min. 180/135 cd/($lx \cdot m^2$) (*)	Pass
		40°	232	216	Min. 65/47 cd/($lx \cdot m^2$) (*)	Pass
	0.33° [20′]	5°	288	286	Min. 250/188 cd/(lx·m²) (*)	Pass
		20°	274	267	Min. 200/150 cd/(lx·m²) (*)	Pass
		30°	246	241	Min. 170/128 cd/(lx·m²) (*)	Pass
		40°	171	168	Min. 60/45 cd/(lx·m²) (*)	Pass
	1.0°	5°	82.5	80.7	Min. 25/18.8 cd/(lx·m²) (*)	Pass
		20°	83.9	83.6	Min. 15/11.3 cd/(lx·m ²) (*)	Pass
		30°	79.9	79.5	Min. 12/9 cd/(lx·m²) (*)	Pass
		40°	49.7	45.2	Min. 10/7.5 cd/(lx·m²) (*)	Pass
	1.5° [1° 30′]	5°	19.8	18.5	Min. 10/7.5 cd/(lx·m²) (*)	Pass
		20°	21.5	21.0	Min. 7/5.25 cd/(lx·m²) (*)	Pass
		30°	24.7	24.4	Min. 5/3.75 cd/(lx·m ²) (*)	Pass
		40°	22.7	22.4	Min. 4/3 cd/(lx·m²) (*)	Pass

^{*=} Retroreflective Material Shall Comply With The Minimum Requirements For The Coefficient Of Retroreflection At The One Of The Two Rotation Angles, And Shall Be Not Less Than 75% Of The Values At The Other Rotation Angle.

Note: Take Measurements At $\epsilon 1=0^{\circ}$ And $\epsilon 2=90^{\circ}$. Maximum Value Is Recorded On Left Side Of The Result Column And The Other Value On Right Side Of Test Result Column.





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: ϵ =0 $^{\circ}$)			
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	471 cd/(lx·m ²)	Min. 100 cd/(lx·m²)	Pass

Sample		y-Direction (Vertical: ϵ =90 $^{\circ}$)			
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	470 cd/(lx·m ²)	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	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	474 cd/(lx·m²)	Min. 100 cd/(lx·m ²)	Pass

Sample		y-Direction (Vertical: ε=90°)			
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
_	0.20° [12′]	5°	474 cd/(lx·m²)	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 $(-20\pm1)^{\circ}$ C For 4 Hours

Sample	x-Direction (Horizontal: ϵ =0 $^{\circ}$)				
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	500 cd/(lx·m ²)	Min. 100 cd/(lx·m ²)	Pass

Sample		y-Direction (Vertical: ε=90°)			
	Observation	Entrance Angle β ₁	Coefficient Of	Requirement	Pass / Fail
	Angle	$(\beta_2 = 0^{\circ})$	Retroreflection	<u>Requirement</u>	1 033 / 1 011
-	0.20° [12′]	5°	496 cd/(lx·m ²)	Min. 75 cd/($lx \cdot m^2$)	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℃; 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 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	503 cd/(lx·m ²)	Min. 100 cd/(lx·m²)	Pass

Sample		Y	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°	499 cd/(lx·m²)	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 (Washing))

Wash Condition:

ISO 6330:2012
Type A
Reference Detergent 3
6N
-
After Each Wash Cycle Dried The Samples At 50±5℃.
-
-
25

Sample	x-Direction (Horizontal: ϵ =0 $^{\circ}$)				
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
_	0.20° [12′]	5°	278 cd/(lx·m ²)	Min. 100 cd/(lx·m ²)	Pass

Sample	y-Direction (Vertical: ε=90°)				
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	270 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 $^{\circ}$)				
	Observation Angle	Entrance Angle β_1 $(\beta_2 = 0^\circ)$	Coefficient Of Retroreflection	<u>Requirement</u>	Pass / Fail
-	0.20° [12′]	5°	358 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°	343 cd/(lx·m ²)	Min. 75 cd/(lx·m ²)	Pass	

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