

**E3. Declaration of Conformity**

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

|  |
|--|
| Certificate No. V73862-2020  |
| Supplier name and address: Tingley Rubber Corporation<br>1551 S. Washington Ave., Suite 403<br>Piscataway, NJ 08854  |
| Product information (name, model number, part number or other information as applicable):<br>Class 2 Twill/Mesh, Surveyor Style Zipper Closure Vest, Fluorescent Yellow-Green<br>Model Number: V73862  |
| 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 type="checkbox"/> Knitted <input checked="" type="checkbox"/> Woven <input type="checkbox"/> Other:<br>_____ |
| Report #: GZHT91019943                  | Material Content (such as Polyester, Modacrylic, and others):<br>100% Polyester  |
| Date: 02/05/2021                        | Weight: 3.83 oz                      Color: Fl. Yellow-Green   |
| Description: 100% Polyester Woven Twill |  |

**Material 2 Identification**

|                                  |  |
|----------------------------------|--|
| Test Lab: Intertek               | Material Type: <input checked="" type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> Other:<br>_____ |
| Report #: GZHT91019884(S1)       | Material Content (such as Polyester, Modacrylic, and others):<br>100% Polyester  |
| Date: 02/07/2021                 | Weight: 3.54 oz                      Color: Fl. Yellow-Green   |
| Description: 100% Polyester Mesh |  |

**Material 3 Identification**

|              |   |
|--------------|---|
| Test Lab:    | Material Type: <input type="checkbox"/> Knitted <input type="checkbox"/> Woven <input type="checkbox"/> Other:<br>_____ |
| 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) >0.13m<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**

Our Reference No.: GZHT9101994302

**OFFICE**

ROOM 1809,#3 BUILDING,  
DEYING INT'L PLAZA,#222 CHANGHONG  
ROAD,  
YUHUATAI DISTRICT,NANJING 210012

Certificate Issue Date: Feb 05, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Woven Vest Fabric (100% Polyester Woven Twill, 160gsm 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  
Color Fastness To Crocking Of Background Material  
Color Fastness To Perspiration Of Background Material  
Color Fastness To Water Of Background Material  
Color Fastness To Laundry Of Background Material  
Dimension Change Of Background Material  
Tear Resistance

The test results are given in our report  
No.: GZHT91019943 Dated: Feb 05, 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

Room 02, 1-8/F. & Room 01, E101/E201/E301/E401/E501/E601/E701/E801, 3/F., Hengyun Building, 235 Kaifa Ave., Guangzhou  
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Applicant: TRC NANJING REPRESENTATIVE OFFICE  
ROOM 1809, #3 BUILDING,  
DEYING INT'L PLAZA, #222 CHANGHONG ROAD,  
YUHUATAI DISTRICT, NANJING 210012

Date: Feb 05, 2021

Attn: ANNE WANG

Sample Description:

One (1) piece of submitted sample said to be Woven Vest Fabric (100% Polyester Woven Twill, 160gsm in High Visibility Yellow Green).

Standard : ANSI/ISEA 107-2020  
ASTM D751-19  
Colour : Yellow Green  
Buyer : Tingley Rubber Corporation  
Supplier : SF vest  
Goods Exported to : U.S.A.  
Date Received/Date Test Started : Jan. 26, 2021  
Date Final Information Confirmed/ : --/Feb. 03, 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

EC/lydiayang



Page 1 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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No.7-2, Caipin Road, Guangzhou Science City, GETDD, Guangzhou, Guangdong, China Economic & Technological Development District, Guangzhou,  
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、 China  
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1 Mass (ASTM D751-19, Sec 10):

132 g/m<sup>2</sup>

Conclusion:

Test Item

Result

Mass

No Comment

2 Thickness Test For Coated Fabric (ASTM D751-19, Sec 9):

0.30 mm

Conclusion:

Test Item

Result

Thickness Test For Coated Fabric

No Comment

3 Tearing Strength For Coated Fabric (ASTM D751-19, Procedure B - Tongue Tear Test Method):

Along: 24.8 N  
Across: 31.6 N

Conclusion:

Test Item

Result

Tearing Strength For Coated Fabric

No Comment



4 Color Performance (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.12 (After Xenon Tests) & ASTM E1164-17)

| Sample | Color                    | Pre-Condition             | Chromaticity Coordinates |        |        | Total Luminance Factor Y (%) | Requirement | Pass/Fail |
|--------|--------------------------|---------------------------|--------------------------|--------|--------|------------------------------|-------------|-----------|
|        |                          |                           | $\epsilon$               | x      | y      |                              |             |           |
| -      | Fluorescent Yellow-Green | As Received (#1)          | 0°                       | 0.3780 | 0.5501 | 108                          | -           | -         |
|        |                          |                           | 90°                      | 0.3776 | 0.5501 | 108                          | -           | -         |
|        |                          |                           | Mean                     | 0.378  | 0.550  | 108                          | *           | Pass      |
|        |                          | After Xenon Test (# & #1) | 0°                       | 0.3770 | 0.5132 | 94                           | -           | -         |
|        |                          |                           | 90°                      | 0.3770 | 0.5128 | 94                           | -           | -         |
|        |                          |                           | Mean                     | 0.377  | 0.513  | 94                           | *           | Pass      |

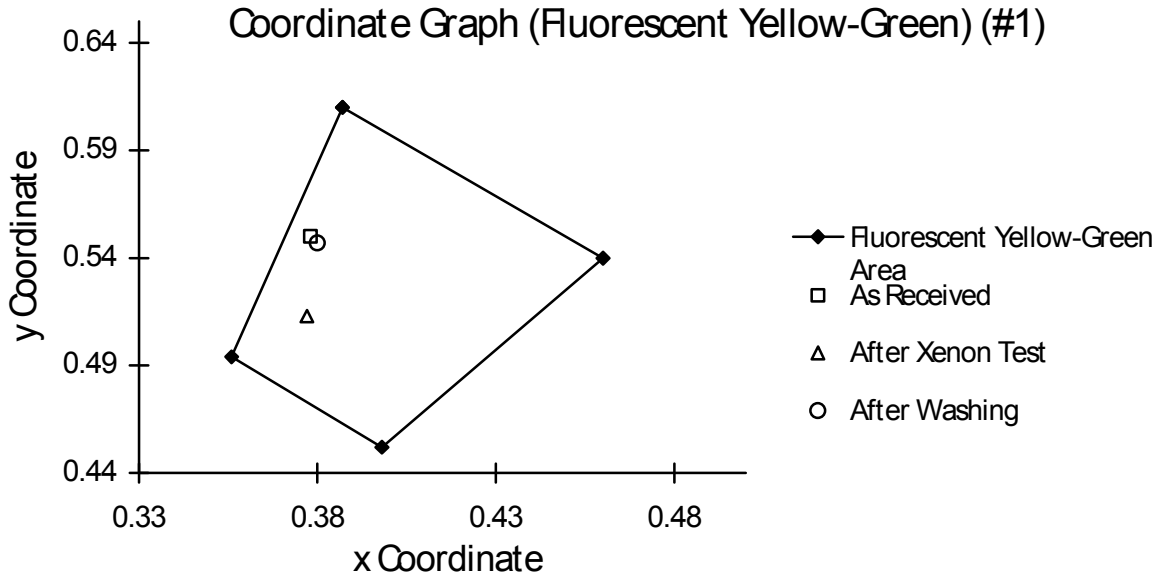
Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04.

| Sample | Color                    | Pre-Condition           | Chromaticity Coordinates |        |        | Total Luminance Factor Y (%) | Applicant's Requirement | Pass/Fail |
|--------|--------------------------|-------------------------|--------------------------|--------|--------|------------------------------|-------------------------|-----------|
|        |                          |                         | $\epsilon$               | x      | y      |                              |                         |           |
| -      | Fluorescent Yellow-Green | After Washing (#1 & #2) | 0°                       | 0.3795 | 0.5474 | 104                          | -                       | -         |
|        |                          |                         | 90°                      | 0.3803 | 0.5471 | 103                          | -                       | -         |
|        |                          |                         | Mean                     | 0.380  | 0.547  | 104                          | *                       | Pass      |

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



Color Performance (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.12 (After Xenon Tests) & ASTM E1164-17) (Cont)



Remark: \* =

| Color                       | Chromaticity Coordinates |       | Minimum Total Luminance Factor<br>Y (%) |
|-----------------------------|--------------------------|-------|---|
|                             | x                        | y     |   |
| Fluorescent<br>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 16.3-2012, Textile – 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:                 | Do Not Bleach         |
| Drying Procedure:                    | Flat Drying           |
| Ironing Procedure:                   | Do Not Iron           |
| Professional Textile Care Procedure: | Do Not Dry Clean      |
| Number Of Cycles:                    | 25                    |



5 Color Fastness 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        |

6 Color Fastness 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 |      |
|        |               | -Cotton    | Grade 4.0   |                |      |
|        |               | -Nylon     | Grade 3.5   |                |      |
|        |               | -Polyester | Grade 4.5   |                |      |
|        |               | -Acrylic   | Grade 4.5   |                |      |
|        |               | -Wool      | Grade 4.0   |                |      |

7 Color Fastness 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 |
|        | Color Stain:  | -Acetate   | Grade 4.0   | Min. Grade 3.0 |      |
|        |               | -Cotton    | Grade 4.5   |                |      |
|        |               | -Nylon     | Grade 3.5   |                |      |
|        |               | -Polyester | Grade 4.5   |                |      |
|        |               | -Acrylic   | Grade 4.5   |                |      |
|        |               | -Wool      | Grade 4.0   |                |      |





8 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)

| 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 4.0 |                |             |
|        | -Nylon        | Grade 3.0 |                |             |
|        | -Polyester    | Grade 4.0 |                |             |
|        | -Acrylic      | Grade 4.5 |                |             |
|        | -Wool         | Grade 3.5 |                |             |

This Test Was Conducted At 3F, Hengyun Building, No.235 Kaifa Avenue, GETDD

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

Test Condition:

Standard Code: AATCC 135-2018 (3)(III)(A)(iii)  
Cleaning Cycles: 5

| Sample | Results |       | Requirement | Pass / Fail |
|--------|---------|-------|-------------|-------------|
| --     | Length  | -0.4% | *           | Pass        |
|        | Width   | -0.4% | *           | Pass        |

Remark: \* =

| Material Type | Woven Fabric    |
|---------------|-----------------|
| Length        | Not Exceed ± 4% |
| Width         | Not Exceed ± 4% |

This Test Was Conducted At 3F, Hengyun Building, No.235 Kaifa Avenue, GETDD



10 Tear Resistance of Woven Material (ANSI/ISEA 107-2020, 8.4.2 & ASTM D1424-09(2019))

Preconditioning:

Temperature: (20 ± 2)°C

Relative Humidity: (65 ± 5)%

Period: 24 hours

| Sample | Specimen | Machine Direction | Cross-Machine Direction | Requirement | Pass/Fail |
|--------|----------|-------------------|-------------------------|-------------|-----------|
|        | 1        | 39.8 N            | 27.6 N                  | Min. 13 N   | Pass      |
|        | 2        | 39.2 N            | 27.9 N                  | Min. 13 N   | Pass      |
|        | 3        | 42.1 N            | 28.8 N                  | Min. 13 N   | Pass      |
|        | 4        | 40.2 N            | 28.1 N                  | Min. 13 N   | Pass      |
|        | 5        | 40.7 N            | 28.5 N                  | Min. 13 N   | Pass      |

This Test Was Conducted At 3F, Hengyun Building, No.235 Kaifa Avenue, GETDD





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.*

EC / lydiayang

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**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1-8层02房、01房101、  
E201、E301、E401、E501、E601、E701、E801 China  
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Tel: +86 20 83966868 Fax: +86 20 82228169 Postcode: 510730



## 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.: GZHT91019884(S1)02

Certificate Issue Date: Feb 07, 2021

Attn: ANNE WANG

Description: One (1) piece of submitted sample said to be Knitted Vest Fabric (100% Polyester Mesh Knit, 120gsm 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 Fastness To Crocking Of Background Material  
Color Fastness To Perspiration Of Background Material  
Color Fastness 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.: GZHT91019884(S1) Dated: Feb 07, 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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Applicant: TRC NANJING REPRESENTATIVE OFFICE  
ROOM 1809, #3 BUILDING,  
DEYING INT'L PLAZA, #222 CHANGHONG ROAD,  
YUHUATAI DISTRICT, NANJING 210012  
Attn: ANNE WANG

Date: Feb 07, 2021  
THIS IS TO SUPERSEDE REPORT  
NO. GZHT91019884 DATED FEB  
05, 2021

Sample Description:

One (1) piece of submitted sample said to be Knitted Vest Fabric (100% Polyester Mesh Knit, 120gsm in High Visibility Yellow Green).

Standard : ANSI/ISEA 107-2020  
ASTM D751-19  
Colour : Yellow Green  
Buyer : Tingley Rubber Corporation  
Supplier : SF vest  
Goods Exported to : U.S.A.  
Date Received/Date Test Started : Jan. 26, 2021  
Date Final Information Confirmed/ : --/Feb. 03, 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



EC/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

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1 Mass (ASTM D751-19, Sec 10):

116 g/m<sup>2</sup>

Conclusion:

Test Item

Result

Mass

No Comment

2 Thickness Test For Coated Fabric (ASTM D751-19, Sec 9):

0.30 mm

Conclusion:

Test Item

Result

Thickness Test For Coated Fabric

No Comment

3 Tearing Strength For Coated Fabric (ASTM D751-19, Procedure B - Tongue Tear Test Method):

Along: 17.6 N  
Across: 18.4 N

Conclusion:

Test Item

Result

Tearing Strength For Coated Fabric

No Comment



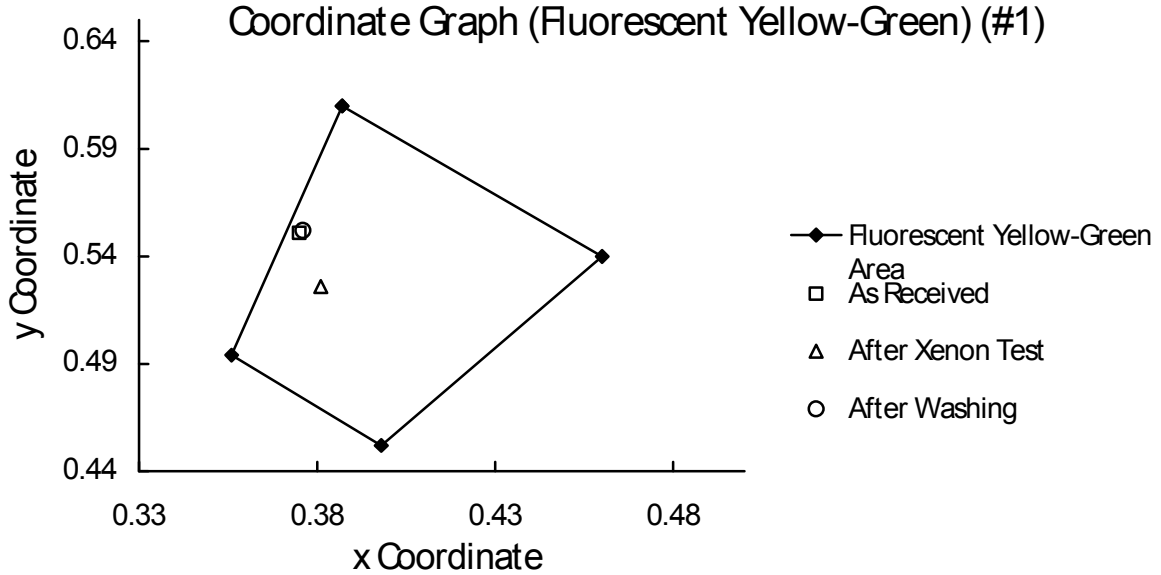
4 Color Performance (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.12 (After Xenon Tests) & ASTM E1164-12)

| Sample   | Color                    | Pre-Condition             | Chromaticity Coordinates |        |        | Total Luminance Factor Y (%) | Requirement | Pass/Fail |
|--|--------------------------|---------------------------|--------------------------|--------|--------|------------------------------|-------------|-----------|
|  |                          |                           | $\epsilon$               | x      | y      |                              |             |           |
| -  | Fluorescent Yellow-Green | As Received (#1)          | 0°                       | 0.3750 | 0.5512 | 84                           | -           | -         |
|  |                          |                           | 90°                      | 0.3753 | 0.5510 | 83                           | -           | -         |
|  |                          |                           | Mean                     | 0.375  | 0.551  | 83                           | *           | Pass      |
|  |                          | After Xenon Test (# & #1) | 0°                       | 0.3812 | 0.5259 | 73                           | -           | -         |
|  |                          |                           | 90°                      | 0.3808 | 0.5254 | 73                           | -           | -         |
|  |                          |                           | Mean                     | 0.381  | 0.526  | 73                           | *           | 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 Y (%) | Applicant's Requirement | Pass/Fail |
|--------|--------------------------|-------------------------|--|--------|--------|------------------------------|-------------------------|-----------|
|        |                          |                         | $\epsilon$   | x      | y      |                              |                         |           |
| -      | Fluorescent Yellow-Green | After Washing (#1 & #2) | 0°   | 0.3756 | 0.5523 | 85                           | -                       | -         |
|        |                          |                         | 90°  | 0.3756 | 0.5523 | 85                           | -                       | -         |
|        |                          |                         | Mean   | 0.376  | 0.552  | 85                           | *                       | Pass      |
|        |                          |                         | Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04. |        |        |                              |                         |           |



Color Performance (ANSI/ISEA 107-2020, 8.1.1 (Prior To Exposure Tests) & 8.12 (After Xenon Tests) & ASTM E1164-12) (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 16.3-2012, Textile – 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:                 | Do Not Bleach         |
| Drying Procedure:                    | Flat Drying           |
| Ironing Procedure:                   | Do Not Iron           |
| Professional Textile Care Procedure: | Do Not Dry Clean      |
| Number Of Cycles:                    | 25                    |





5 Color Fastness 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        |

6 Color Fastness 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 |      |
|        |               | -Cotton    | Grade 4.5   |                |      |
|        |               | -Nylon     | Grade 4.5   |                |      |
|        |               | -Polyester | Grade 4.5   |                |      |
|        |               | -Acrylic   | Grade 4.5   |                |      |
| -Wool  | Grade 4.5     |            |             |                |      |



7 Color Fastness 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 |
|        | Color Stain:  | -Acetate   | Grade 4.5   | Min. Grade 3.0 |      |
|        |               | -Cotton    | Grade 4.5   |                |      |
|        |               | -Nylon     | Grade 4.0   |                |      |
|        |               | -Polyester | Grade 4.5   |                |      |
|        |               | -Acrylic   | Grade 4.5   |                |      |
|        |               | -Wool      | Grade 4.5   |                |      |

8 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)

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

This Test Was Conducted At 3F, Hengyun Building, No.235 Kaifa Avenue, GETDD



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

Test Condition:  
 Standard Code: AATCC 135-2018 (3)(III)(A)(iii)  
 Cleaning Cycles: 5

| Sample | Results |       | Requirement | Pass / Fail |
|--------|---------|-------|-------------|-------------|
| -      | Length  | -1.2% | *           | Pass        |
|        | Width   | -1.6% | *           | Pass        |

Remark: \* =

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

This Test Was Conducted At 3F, Hengyun Building, No.235 Kaifa Avenue, GETDD

10 Bursting Strength (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        | 514.0 N | Min. 178 N  | Pass      |
|        | 2        | 531.0 N | Min. 178 N  | Pass      |
|        | 3        | 549.5 N | Min. 178 N  | Pass      |
|        | 4        | 531.0 N | Min. 178 N  | Pass      |
|        | 5        | 529.5 N | Min. 178 N  | Pass      |
|        | Average  | 531.0 N | Min. 178 N  | Pass      |

This Test Was Conducted At 3F, Hengyun Building, No.235 Kaifa Avenue, GETDD





End of Report

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EC / lydiayang

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**Intertek Testing Services Shenzhen Ltd. Guangzhou Branch**

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Tel: +86 20 83966868 Fax: +86 20 82228169 Postcode: 510730





To : TRC NANJING REPRESENTATIVE OFFICE  
Attention : ANNE WANG Date : Feb 07, 2021

Re : Report Revision Notification

Labtest Report Number GZHT91019884 date FEB 05, 2021

Please be informed that all the content recorded in the above captioned report will be void. This captioned report is now superseded by a revised Labtest Report, Number GZHT91019884(S1) , issued on Feb 07, 2021 .

Thank you for your attention

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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Tel: +86 208213 9001 Fax: +86 20 82089909 Postcode: 510663 Tel: +86 20 83966868 Fax: +86 20 82228169 Postcode: 510730



## 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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检测  
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



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<br>b) 20 H At -30±2°C; Immediately Followed By<br>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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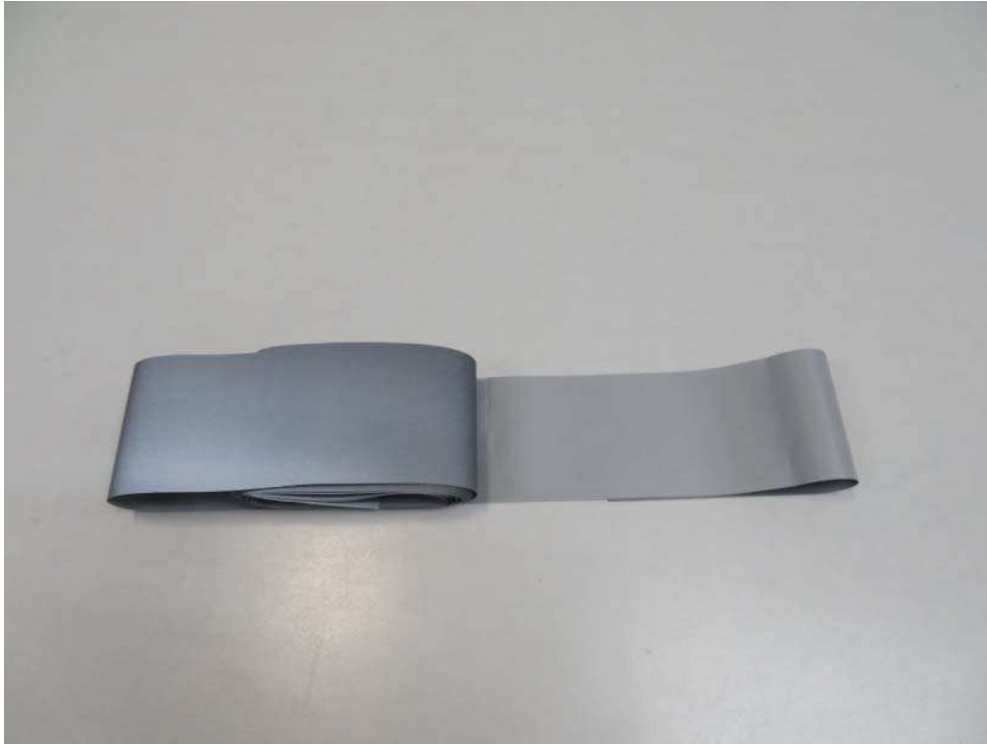
TEST REPORT

Tests Conducted (As Requested By The Applicant)



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检测  
TESTING  
CNAS L0220

Number: GZHT91065162



*End Of Report*

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/ lydiayang

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