### E3. Declaration of Conformity

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

| Certificate No. S88122-2020   |
|---|
| 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):<br>Class 3 FR Sweatshirt, Fluorescent Yellow-Green  |
| Model Number: S88122  |
| 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_3, Type_R_; All relevant materials have been tested with documents referenced under this certificate number. This item meets all design requirements and has been measured for appropriate amount of visible reflective material and background materials for the smallest size offered for this product. |

### 1. VISIBLE BACKGROUND MATERIAL:

• Amount of visible background material (smallest size offered):

0.80m<sup>2</sup> (1240 in.<sup>2</sup>)

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

### Material 1 Identification

| Test Lab: Intertek              | Material Type: X Knit                       | tted 🗆 Woven 🗆 Other:                             |
|---------------------------------|---|---|
| Report #: GZHT91069062          | Material Content (su<br>Modacrylic/Cotton B | ch as Polyester, Modacrylic, and others):<br>lend |
| Date: 11/12/2021                | Weight: 10.5 oz                             | Color: Fl. Yellow-Green                           |
| Description: 60% Modeonylic 40% | Cotton Intorlock Knit                       |   |

Description: 60% Modacrylic 40% Cotton Interlock Knit

### Material 2 Identification

| Test Lab:    | Material Type:  Knitted  Woven  Other:                        |
|--------------|---|
| Report #:    | Material Content (such as Polyester, Modacrylic, and others): |
| Date:        | Weight: Color:  |
| Description: |   |

### **Material 3 Identification**

| Test Lab:    | Material Type: □Knitted □ Woven □ Other:<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) 0.20m<sup>2</sup> (310 in.<sup>2</sup>)

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

### **Material 1 Identification**

| Test Lab: Intertek                    |                        |
|---------------------------------------|------------------------|
| Report #: GZHT91094580                |                        |
| Date: 02/17/2022                      | Style #: VB211A FR B   |
| Description: 50mm Wide heat seal FR s | 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: Mighan BOWSIR | Title: | Product Manager |
|-----------------------|--------|-----------------|
|                       |        | ¥               |

Print Name: Meghan Bowser

\_\_\_\_\_Date: 8/17/22



## Certificate of Test

#### Issued To: **TRC NANJING REPRESENTATIVE**

Our Reference No.: GZHT9106906202

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

Certificate Issue Date: Nov 12, 2021

Attn: ANNE WANG Description: One (1) piece of submitted sample said to be FR sweatshirt Lime fabric.

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.: GZHT9106906Ž Dated: Nov 12, 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 1
- 2 The Attached Test Report.
- This Certificate Must Not Be Confused Neither With The EU Type Examination Certificate Released 3 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

Page 1 Of 1

Intertek Testing Services Shenzhen Ltd. Guangzhou Branch 深圳天祥质量技术服务精限公司广州分公司 ネガリスキーの単式: 木取 第7月7月201/E301/E402/E501/E701/E801, Room 02, 1-8/F. & Room 01, E101/E201/E301/E402/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研究委略 7 日本二第11-855-02 房、01 房 101、 E201、E301、E401、E501、E601、E001、E801 Tel: +86 208213 9001 Pax: #8620 82089999 Postcode: 510663 (6)







Applicant: TRC NANJING REPRESENTATIVE OFFICE ROOM 1809,#3 BUILDING, DEYING INT'L PLAZA,#222 CHANGHONG ROAD, Date: Nov 12, 2021

YUHUATAI DISTRICT, NANJING 210012 Attn: ANNE WANG

Sample Description: One (1) piece of submitted sample said to be FR sweatshirt Lime fabric. Standard ANSI/ISEA 107-2020 1 Buyer **Tingley Rubber Corporation** Ref. No. FR sweatshirt Lime, #EXC21046 Goods Exported to U.S.A Date Received/Date Test Started Oct. 09, 2021 Nov. 10, 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 <u>gzfootwear@intertek.com</u>

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

Guiliang Dong Senior Lab Manager

MR / lydiayang



Page 1 Of 7

# intertek Total Quality. Assured.

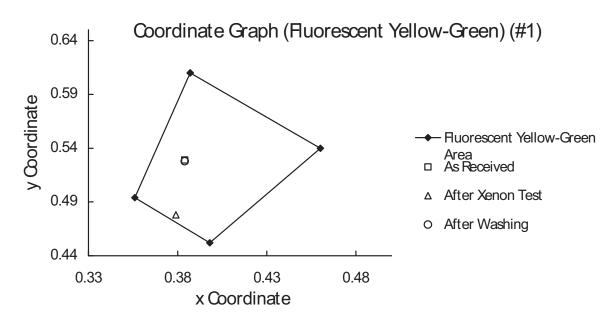


TEST REPORT Tests Conducted (As Requested By The Applicant)

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

| Sample   | Color            | Pre-condition | Chrom | naticity Coo | rdinates | Total<br>Luminance<br>Factor | Requirement | Pass/Fail |
|--|------------------|---------------|-------|--------------|----------|------------------------------|-------------|-----------|
|  |                  |               | 3     | Х            | У        | Y (%)                        |             |           |
| -  | Fluorescent      | As            | 0°    | 0.3843       | 0.5286   | 93                           | -           | -         |
|  | Yellow-<br>Green | Received (#1) | 90°   | 0.3843       | 0.5289   | 94                           | -           | -         |
|  |                  |               | Mean  | 0.384        | 0.529    | 93                           | *           | Pass      |
|  |                  | After Xenon   | 0°    | 0.3787       | 0.4786   | 82                           | -           | -         |
|  |                  | Test (# & #1) | 90°   | 0.3786       | 0.4781   | 82                           | -           | -         |
|  |                  |               | Mean  | 0.379        | 0.478    | 82                           | *           | Pass      |
| Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04. |                  |               |       |              |          |                              |             |           |

| Sample   | Color            | Pre-Condition | Chrom | naticity Coo | rdinates | Total<br>Luminance<br>Factor | <u>Applicant's</u><br><u>Requirement</u> | Pass/Fail |
|--|------------------|---------------|-------|--------------|----------|------------------------------|--|-----------|
|  |                  |               | 3     | Х            | У        | Y (%)                        |  |           |
| -  | Fluorescent      | After Washing | 0°    | 0.3838       | 0.5275   | 94                           | -  | -         |
|  | Yellow-<br>Green | (#1 & #2)     | 90°   | 0.3838       | 0.5278   | 94                           | -  | -         |
|  |                  |               | Mean  | 0.384        | 0.528    | 94                           | *  | Pass      |
| Note: The Specimen Is Backed By A Black Underlay With A Reflectance Of Less Than 0.04. |                  |               |       |              |          |                              |  |           |



/ lydiayang

Intertek Testing Services Shenzhen Lto Guangzhou Branch 深圳天祥质量技大服多猫限公司,一州分公司 Room 02, 1-8/F. & Room 01, E401/E201/E301/E402/E501/E601/E701/E801, No.7-2, Caipin Road, Guangzhou Science City, GETDB, Guangzhou, Guangdong, China 广州经济技术开发区科学研究领路 7, 2, 二第十一人是 02 房、01 房 101、 E201、E3011-1404、E501、E605、7501, E801 Tel: +86 208213 9001 Fax: 196 20 82089999 Postcode: 510663 Page 2 Of 7





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

Remark: \* =

| Color        | Chromaticity Coordinates |       | Minimum Total Luminance Factor |
|--------------|--------------------------|-------|--------------------------------|
|              | х                        | У     | Y (%)                          |
|              | 0.387                    | 0.610 |                                |
| Fluorescent  | 0.356                    | 0.494 | 70                             |
| Yellow-Green | 0.398                    | 0.452 | 70                             |
|              | 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= Single Layer
- #2 = ISO 6330:2012, Wash Condition:

| Washing Standard:                    | ISO 6330:2012   |
|--------------------------------------|---|
| Machine:                             | Туре А  |
| Reagent:                             | Reference Detergent 3   |
| Washing Procedure:                   | 4 N   |
| Bleaching Procedure:                 | Do Not Bleach   |
| Drying Procedure:                    | Line Dry  |
| Ironing Procedure:                   | Iron At A Maximum Sole-Plate Temperature Of $110^{\circ}$ Without Steam |
| Professional Textile Care Procedure: | Do Not Dry Clean  |
| Number Of Cycles:                    | 25  |
|                                      |   |

/ lydiayang







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

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

| Sample | Test Condition | Results   | <b>Requirement</b> | Pass / Fail |
|--------|----------------|-----------|--------------------|-------------|
| -      | Dry            | Grade 4.5 | Min. Grade 3.0     | Pass        |
|        | Wet            | Grade 4.5 | Min. Grade 3.0     | Pass        |

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

| Test Condition:   |             |
|-------------------|-------------|
| Load:             | 4.54 kg     |
| Oven temperature: | (38 ± 1) ℃  |
| Test Period:      | 6 h ± 5 min |

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

/ lydiayang



Page 4 Of 7





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

Test Condition:Pressure:4.5 kgOven Temperature: $(38 \pm 1) \degree C$ Test Period:18 h

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

/ lydiayang



Page 5 Of 7

Test Condition:





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

Test Condition: Standard Code: Cleaning Cycles:

AATCC 135-2012 (3)(III)(A)(iii) 5

| Sample |        | Results |          | Pass / Fail |
|--------|--------|---------|----------|-------------|
|        | Length | -3.2%   | ±7%      | Pass        |
|        | Width  | -2.4%   | $\pm$ 5% | 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.

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

Preconditioning:Temperature: $(20\pm2)^{\circ}$ Relative Humidity: $(65\pm5)^{\circ}$ Period:24 Hours

| Sample | Specimen | Results | <u>Requirement</u> | Pass/Fail |
|--------|----------|---------|--------------------|-----------|
|        | 1        | 523.0 N | Min. 178 N         | Pass      |
|        | 2        | 486.5 N | Min. 178 N         | Pass      |
|        | 3        | 499.0 N | Min. 178 N         | Pass      |
|        | 4        | 505.5 N | Min. 178 N         | Pass      |
|        | 5        | 523.5 N | Min. 178 N         | Pass      |
|        | Average  | 507.5 N | Min. 178 N         | Pass      |

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

/ lydiayang



Page 6 Of 7



/ lydiayang



Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)



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



Page 7 Of 7

# intertek

OFFICE

ROAD.

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### Certificate of Test TRC NANJING REPRESENTATIVE

Our Reference No.: GZHT9109458002

Certificate Issue Date: Feb 17, 2022

Attn: Description:

Issued To:

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

We Hereby Declare That The Sample Described Above Has Been Tested By Intertek Testing Services Shenzhen Ltd. Guangzhou Branch And Meets The Requirements Of The Following Selected Tests Of ANSI/ISEA 107-2020.

Retroreflective Performance Prior To Test Exposure

ROOM 1809,#3 BUILDING,

DEYING INT'L PLAZA,#222 CHANGHONG

YUHUATAI DISTRICT, NANJING 210012

**Retroreflection After Abrasion** 

Retroreflection After Flexing

Retroreflection After Folding At Cold Temperatures

**Retroreflection After Temperature Variation** 

**Retroreflection After Washing** 

Retroreflection (Wet Performance)

The test results are given in our report No.: GZHT91094580 Dated: Feb 17, 2022

Note:

- 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 1
- 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. 3

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

Guiliang Dong Senior Lab Manager

Page 1 Of 1

Intertek Testing Services Shenzhen/Ltd. Guangzhou Branch 深圳天祥质量技术服务桶限公司 州分公司 (6)



TEST REPORT



Applicant: TRC NANJING REPRESENTATIVE OFFICE ROOM 1809,#3 BUILDING,

Date: Feb 17, 2022

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 VF621A FR B Reflective Tape, #20211015. Standard ANSI/ISEA 107-2020 5 Buyer **Tingley Rubber Corporation** Ref. No. VF621A FR B Reflective Tape, #20211015 Goods Exported to U.S.A. Date Received/Date Test Started: Jan 27, 2022 Date Final Information Confirmed/ Feb 17, 2022/--Date Payment Received:

Test Result Please Refer To Attached Page(S).

Should you have any query on this report, you may contact at gzfootwear@intertek.com

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

Guiliang Dong Senior Lab Manager

EC / lydiayang



Page 1 Of 6

Intertek Testing Services Shenzheit/Ltd Guangzhou Branch 深圳天祥质量技兴跟影猫服义词广州分公司 Room 02, 1-8/F. & Room 01, E101/E201/E301/E501/E601/E701/E801, Tel: +86 208213 9001 Pax 4 6 20 8 20 8 9999 Postcode: 510663 6





<u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

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

| Sample | Observation<br>Angle | Entrance<br>Angle $\beta_1$<br>( $\beta_2=0$ ) | Coeffici<br>Retroref<br>cd/(lx | flection | Requirement                              | Pass/Fail |
|--------|----------------------|--|--------------------------------|----------|--|-----------|
| -      | 0.20° [12′]          | 5°   | 538                            | 538      | Min. 330/248 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 20°  | 500                            | 471      | Min. 290/218 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 30°  | 441                            | 397      | Min. 180/135 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 40°  | 346                            | 314      | Min. 65/47 cd/(lx·m <sup>2</sup> ) (*)   | Pass      |
|        | 0.33° [20′]          | 5°   | 325                            | 319      | Min. 250/188 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 20°  | 298                            | 297      | Min. 200/150 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 30°  | 277                            | 257      | Min. 170/128 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 40°  | 219                            | 213      | Min. 60/45 cd/(lx·m <sup>2</sup> ) (*)   | Pass      |
|        | 1.0°                 | 5°   | 61.8                           | 60.3     | Min. 25/18.8 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 20°  | 65.1                           | 60.9     | Min. 15/11.3 cd/(lx·m <sup>2</sup> ) (*) | Pass      |
|        |                      | 30°  | 70.8                           | 62.4     | Min. 12/9 cd/(lx·m <sup>2</sup> ) (*)    | Pass      |
|        |                      | 40°  | 75.3                           | 63.0     | Min. 10/7.5 cd/(lx·m <sup>2</sup> ) (*)  | Pass      |
|        | 1.5° [1° 30′]        | 5°   | 16.4                           | 15.7     | Min. 10/7.5 cd/(lx·m <sup>2</sup> ) (*)  | Pass      |
|        |                      | 20°  | 19.6                           | 16.1     | Min. 7/5.25 cd/(lx·m <sup>2</sup> ) (*)  | Pass      |
|        |                      | 30°  | 24.5                           | 17.4     | Min. 5/3.75 cd/(lx·m <sup>2</sup> ) (*)  | Pass      |
|        |                      | 40°  | 25.1                           | 18.5     | Min. 4/3 cd/(lx·m <sup>2</sup> ) (*)     | 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.

/ lydiayang



Page 2 Of 6





### 2 Retroreflection After Abrasion (ANSI/ISEA 107-2020, 9.2 & 10.4.1)

| Test Exposure | Test Method                                    |
|---------------|--|
| Abrasion      | ISO 12947-2:2016, Pressure: 9 kPa, 5000 Cycles |

| Sample |                      | x-Direction (Horizontal: $\epsilon=0^{\circ}$ )     |                                   |                                  |             |
|--------|----------------------|---|-----------------------------------|----------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                      | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 507 cd/(lx⋅m <sup>2</sup> )       | Min. 100 cd/(lx·m <sup>2</sup> ) | Pass        |

| Sample |                      | y-Direction (Vertical: $\epsilon = 90^{\circ}$ )    |                                   |                                 |             |
|--------|----------------------|---|-----------------------------------|---------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                     | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 490 cd/(lx⋅m²)                    | Min. 75 cd/(lx·m <sup>2</sup> ) | Pass        |

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

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

| Sample |                      | >   | κ-Direction (Horizontal: $ε=0$    | ° )                              |             |
|--------|----------------------|---|-----------------------------------|----------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                      | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 472 cd/(lx⋅m²)                    | Min. 100 cd/(lx·m <sup>2</sup> ) | Pass        |

| Sample |                      | y-Direction (Vertical: $\epsilon$ =90°)             |                                   |                                 |             |
|--------|----------------------|---|-----------------------------------|---------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                     | Pass / Fail |
| - [    | 0.20° [12']          | 5°  | 477 cd/(lx⋅m²)                    | Min. 75 cd/(lx⋅m <sup>2</sup> ) | Pass        |

/ lydiayang





<u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)

### 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 $\pm$ 1) $^\circ\!\mathbb{C}$ For 4 Hours |

| Sample |                      | x-Direction (Horizontal: $\epsilon=0^{\circ}$ )     |                                   |                                  |             |
|--------|----------------------|---|-----------------------------------|----------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                      | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 521 cd/(lx·m <sup>2</sup> )       | Min. 100 cd/(lx·m <sup>2</sup> ) | Pass        |

| Sample |                      | y-Direction (Vertical: $\epsilon = 90^{\circ}$ )    |                                   |                                 |             |
|--------|----------------------|---|-----------------------------------|---------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                     | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 525 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 $50\pm2^{\circ}$ ; Immediately Followed By<br>b) 20 H At $-30\pm2^{\circ}$ ; Immediately Followed By<br>c) For At Least 2 H At $20\pm2^{\circ}$ And $65\pm5^{\circ}$ Relative Humidity |

| Sample | x-Direction (Horizontal: $\epsilon$ =0°) |   |                                   |                                  |             |
|--------|--|---|-----------------------------------|----------------------------------|-------------|
|        | Observation<br>Angle                     | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                      | Pass / Fail |
| -      | 0.20° [12']                              | 5°  | 513 cd/(lx⋅m²)                    | Min. 100 cd/(lx·m <sup>2</sup> ) | Pass        |

| Γ | Sample |                      | y-Direction (Vertical: $\epsilon$ =90°)             |                                   |                                 |             |
|---|--------|----------------------|---|-----------------------------------|---------------------------------|-------------|
|   |        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                     | Pass / Fail |
|   | - [    | 0.20° [12′]          | 5°  | 519 cd/(lx⋅m²)                    | Min. 75 cd/(lx·m <sup>2</sup> ) | Pass        |

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Page 4 Of 6





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

| Wash Condition:                      |  |
|--------------------------------------|--|
| Washing Standard:                    | ISO 6330:2012  |
| Machine:                             | Туре А   |
| Reagent:                             | Reference Detergent 3  |
| Washing Procedure:                   | 6N   |
| Bleaching Procedure:                 | -  |
| Drying Procedure:                    | After Each Wash Cycle Dried The Samples At 50 $\pm$ 5 $^{\circ}$ C |
| Ironing Procedure:                   | -  |
| Professional Textile Care Procedure: | -  |
| Number Of Cycles:                    | 25   |

| Sample |                      | x-Direction (Horizontal: $\epsilon$ =0°)            |                                   |                                  |             |
|--------|----------------------|---|-----------------------------------|----------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                      | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 425 cd/(lx⋅m²)                    | Min. 100 cd/(lx·m <sup>2</sup> ) | Pass        |

| Sample |                      | y-Direction (Vertical: $\epsilon$ =90°)             |                                   |                                 |             |
|--------|----------------------|---|-----------------------------------|---------------------------------|-------------|
|        | Observation<br>Angle | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                     | Pass / Fail |
| -      | 0.20° [12']          | 5°  | 432 cd/(lx⋅m²)                    | 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<br>Angle                            | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                      | Pass / Fail |  |  |  |
| -      | 0.20° [12']                                     | 5°  | 174 cd/(lx⋅m²)                    | Min. 100 cd/(lx·m <sup>2</sup> ) | Pass        |  |  |  |

| Sample | y-Direction (Vertical: $\epsilon$ =90°) |   |                                   |                                 |             |  |  |
|--------|---|---|-----------------------------------|---------------------------------|-------------|--|--|
|        | Observation<br>Angle                    | Entrance Angle $\beta_1$<br>( $\beta_2 = 0^\circ$ ) | Coefficient Of<br>Retroreflection | Requirement                     | Pass / Fail |  |  |
| -      | 0.20° [12']                             | 5°  | 152 cd/(lx·m <sup>2</sup> )       | Min. 75 cd/(lx⋅m <sup>2</sup> ) | Pass        |  |  |

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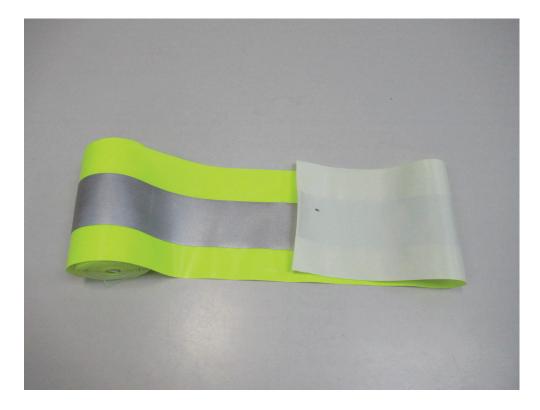
Page 5 Of 6



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Total Quality. Assured. <u>TEST REPORT</u> Tests Conducted (As Requested By The Applicant)



End Of Report

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Page 6 Of 6