### D3. Declaration of Conformity

Declaration of Conformity to ANSI/ISEA 107-2015, High-Visibility Safety Apparel Certificate Number: J26172-2015 Company Name: Tingley Rubber Corporation Address: 1551 S. Washington Ave Suite 403 Piscataway NJ 08854 Product Description: Bomber 3.1 Jacket, Fluorescent Yellow-Green Model Number: J26172 Company declares that the above product meets all set requirements as stated in ANSI/ISEA 107-2015 as a All relevant materials have compliant high-visibility safety item for Type R Performance Class \_3\_ 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): >.80m² (1240 in.²) Please list each material that contributes towards the amount VISIBLE BACKGROUND MATERIAL listed above. Material 1 Test Data Material Type: ☐Knitted X Woven ☐ Other: Test Lab: Vartest Labs Material Content (such as Polyester, Modacrylic, and others): Report #: TINGLE.020416E PU on Polyester Weight: 4.0 oz Color: Fl. Yellow-Green Date: 2/23/16 Description: Interior Coated Polyurethane on 210D Woven Polyester with Exterior DWR Coating **Material 2 Test Data** Material Type: ☐Knitted ☐ Woven ☐ Other: Test Lab: Material Content (such as Polyester, Modacrylic, and others): Report #: Weight: Color: Date: Description: **Material 3 Test Data** Material Type: ☐Knitted ☐ Woven ☐ Other: Test Lab: Material Content (such as Polyester, Modacrylic, and others): Report #: Weight: Color: Date:

Description:

<sup>\*</sup>Use separate sheet for additional materials

### **Declaration of Conformity (page 2 of 2)**

### 2. VISIBLE RETROREFLECTIVE MATERIAL

• Amount of visible retroreflective material (smallest size offered) .20m² (310 in.²)

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

Materia	I 1	Toet	Data
wateria		1621	vala

Material i Test Data	
Test Lab: Calcoast – Test Report# 1606	513-04A
Date: 7/12/2016	Style #: 1304-4
Description: 50mm wide sew on silver re	eflective trim
Material 2 Test Data	
Test Lab:	
Date:	Style #:
Description:	
*Use separate sheet for additional materia	Is
The undersigned hereby warrants that he/s	she is authorized to legally bind the company identified above.
Signed:	Title:

Print Name: \_\_\_\_\_ Date: \_\_\_\_\_



Quality Assurance & Compliance Testing Utilizing Textile & Related Technologies

19 West 36 Street, Tenth Floor New York, NY 10018 tel: 212 947 8391 fax: 212 947 8719

www.vartest.com

# Third Party Certification (ANSI/ISEA 107-2015) HIGH VISIBILITY COMPLIANCE CERTIFICATE

Submitted by: Tingley Rubber Corporation
Name: Bomber II
Color Hi Vis Fluorescent Yellow Green

Date: February 23, 2016 Report #: TINGLE.A020416E

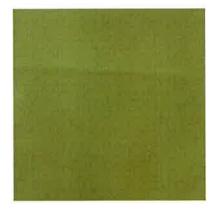
The submitted fabric **MEETS** the requirements of ANSI/ISEA 107-2015 specification for the tests conducted in this report covering high visibility background material.

All of the above tests and evaluations were performed in accordance with ISO/IEC 17025 Quality Systems.

This certification applies to the background material only.

Certificate authorized by:

Adam R. Varley Technical Director





Serial 60085020416E.TINGLE

<sup>\*</sup>This certification applies to the particular sample tested and to the specific tests carried out as dated and detailed in the report referenced above. It does not signify any measure of approval, control, supervision, or surveillance by Vartest Laboratories Inc. to this or any related product.



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### ISO/ICC 17025 Certified Third Party Test Report

DATE:

February 26, 2016

FILE: TINGLE.A020416E

PO #: 17115

CLIENT:

Tingley Rubber Corporation

1551 S Washington Ave, Suite 403

Piscataway, NJ 08854

ATTN: Erika Puello

### SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Bomber II Color Hi Vis Fluorescent Yellow Green

EXECUTIVE S	SUMMARY:
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PASS

FAIL

The submitted fabric MEETS the requirements of ANSI/ISEA 107-2015 Specification for the applicable tests conducted in this report covering high visibility background material.

#### REOUIRED TESTS:

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Determination of Color ASIM E1164-12 (Single layer)	8.1.1 8.2.4 10.2	Test specimen must fulfill the colormetric require - ments of Table 3 for background material	As submitted: x = y = % Y =	N/A
	HIMMI	To the second	After 40x Xenon x = y = % Y =	N/A
Determination of Color ASTM E1164-12 (Two layers of the same material)	8.1.1 8.2.4 10.2	Test specimen must fulfill the colormetric require - ments of Table 3 for background material	As submitted: x = 0.372 y = 0.548 % Y = 118.99	PASS
			After 40x Xenon x = 0.372 y = 0.540 % Y = 114.04	PASS
Colorfastness Crocking AATCC 8-2013	8.2.1	Wet 3.0 Dry 3.0	Wet: 5.0 Dry: 5.0	PASS PASS
Colorfastness Perspiration AATCC 15-2013	8.2.2	Shade change 4.0 Staining 3.0	Shade Change: 5.0 Acetate: 4.5 Cotton: 5.0 Nylon: 4.5 Polyester: 5.0 Acrylic: 5.0 Wool: 5.0	PASS



Page 1 of 4



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# ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A020416E

PO #: 17115

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Bomber II

Color Hi Vis Fluorescent Yellow Green

### REQUIRED TESTS (Cont.):

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Bursting Strength (Knitted or Other Nonwovens) ASTM D6797-07 (2011)	8.4.1	267 N (60 lbf) (27.2fkg)		N/A
Tear Resistance (Woven) ASTM D1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Avg. force machine Avg. force cross-machine	4.10 lbs average	PASS PASS

### TESTED AS CARE LABEL DICTATES:

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Colorfastness Domestic Laundry AATCC 61-2013-2A 105°F (Modified)	8.2.3 Table 4	Shade Change 4.5 Staining 3.0	Shade Change: 4.5 Acetate: 4.5 Cotton: 5.0 Nylon: 4.5 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	PASS PASS
Colorfastness Commercial Laundry AATCC 61-2013-3A 145°F (Modified)	8.2.3 Table 4	Shade Change 4.5 Staining 3.0	Shade Change: Acetate: Cotton: Nylon: Polyester: Acrylic: Wool:	N/A N/A
Colorfastness Water AATCC 107-2013	8.2.3 Table 4	Shade Change 3.0 3.0	Shade Change: 5.0 Acetate: 4.5 Cotton: 5.0 Nylon: 4.5 Polyester: 5.0 Acrylic: 5.0 Wool: 5.0	PASS PASS
Colorfastness Hypochlorite Bleaching AATCC 61-2013-4A (Commercial)	8.2.3 Table 4	Fading 4.0		N/A
Colorfastness Hypochlorite Bleaching AATCC 61-2013-5A (Domestic)	8.2.3 Table 4	Fading 4.0		N/A





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## ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A020416E

PO #: 17115

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Bomber II

Color Hi Vis Fluorescent Yellow Green

### TESTED AS CARE LABEL DICTATES:

Test/Method	Section	ANSI/ISEA 107	REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Colorfastness Hot-pressing AATCC 133-2013	8.2.3 Table 4	Shade Change: Staining:	4.5 3.0	230°F Shade Change: Staining: 300°F	N/A
		internations.	MINIMANA,	Shade Change: Staining: 390°F Shade Change:	N/A N/A
		Mill R	LE	Staining:	
Colorfastness Dry Cleaning AATCC 132-2013	8.2.3 Table 4	Shade Change	4.0	1 m	N/A
Dimensional change Domestic AATCC 135-2012	8.3.1	Woven L +/- 4%	W +/-2%	5th Cycle Length= -0.3% Width = -0.3%	PASS
(3)IIIA(ii) @ 105°F	Huttli	Knit or Coate	d, Non-Woven	5th Cycle Length= Width =	N/A

### TESTED AS CARE LABEL DICTATES (cont.):

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Commercial AATCC 96-2012	8.3.1	Woven L +/- 4% W +/-2%	5th Cycle Length= Width =	N/A
IIIc-A and/or E0145°F		Knit or Coated, Non-Woven L +/- 7% W +/-5%	5th Cycle Length= Width =	N/A
Dimensional change 8.3.1 Drycleaning AATCC 158-2011	Woven L +/- 4% W +/-2%	5th Cycle Length= Width =	N/A	
		Knit or Coated, Non-Woven L +/- 7% W +/-5%	5th Cycle Length= Width =	N/A





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FILE: PO #:

TINGLE.A020416E

17115

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Bomber II

Color Hi Vis Fluorescent Yellow Green

### TESTED AS CARE LABEL DICTATES (cont.):

90 New 70 After 5X Launderings  ! ≤ 1 g of water penetration Level 1	New: After:	N/A N/A
Level 1	New: After 5X Launderings:	N/A N/A
200 cm New 200 cm After 5X Launderings	New: After:	N/A N/A
Procedure B: 600 g/m2/24 hr microporous  Procedure BW: 3600 g/m2/24 hr	buated (	N/A
7. 1	200 cm After 5X Launderings  Procedure B: 600 g/m2/24 hr microporous  Procedure BW:	200 cm After 5X Launderings After:  Procedure B: 600 g/m2/24 hr microporous  Procedure BW: 3600 g/m2/24 hr

e Company By

Technical Director

JG/02/204

Stacy Sadowy

Quality Assurance Supervisor

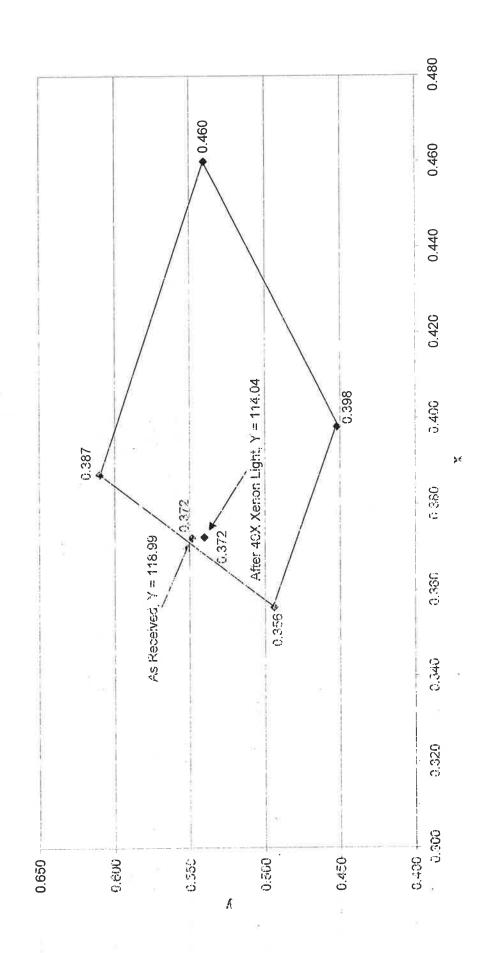
Page 4 of 4



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Chromaticity Coordinates
TINGLE.A.020416E
Fluorescent Yellow-Green
ANSI 107-2015 Requirement: Y > 70
Test Performed with Double Layers of Fabric



### INDUSTRIAL TESTING LABORATORY

### CERTIFICATE OF COMPLIANCE

Based on Report No. 160613-04A

Report Date:

12 July 2016

Project Name:

Tingley N-FR Sew-on Chinastars 1303-4; T/C base

[non-waterproof] reflective trim

Submitted by:

Tingley Rubber Corporation

South Plainfield, NJ 07080

Test Laboratory:

Calcoast - ITL

San Leandro, CA 94577

Product:

50 mm wide silver retroreflective trim,

submitted 13 June 2016

### SUMMARY

Specification: ANSI/ISEA 107-2015

American National Standard for High-Visibility Safety Apparel

Retroreflective and Combined Performance Material

Color, Combined Performance Material

Retroreflective Performance Prior to Test Exposure ...... Passed

Retroreflective Performance after Test Exposure

Written by:

Douglas G. Cummins

Photometric Engineer

Approved by:

Mark A. Evans

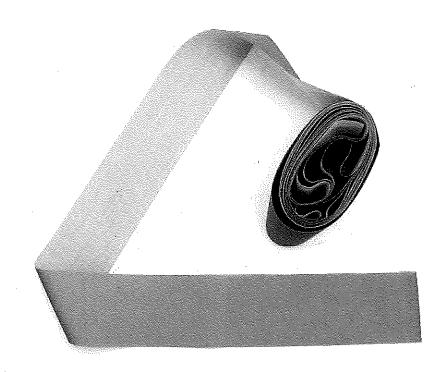
Laboratory Director

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Based on Report No. 160613-04A

### PHOTOGRAPH SHEET

Project Name: Tingley N-FR Sew-on Chinastars 1303-4; T/C base [non-waterproof] reflective trim



Roll, as received

