### D3. Declaration of Conformity

Declaration of Conformity to ANSI/ISEA 107-2015, High-Visibility Safety Apparel

Certificate Number: 053122-2015

Company Name: Tingley Rubber Corporation

Address: 1551 S. Washington Ave Suite 403 Piscataway NJ 08854

Product Description: Comfort-Brite Overalls Fluorescent Yellow-Green

Model Number: 053122

Company declares that the above product meets all set requirements as stated in ANSI/ISEA 107-2015 as a compliant high-visibility safety item for Performance Class <u>E</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): >.30m<sup>2</sup> (465 in.<sup>2</sup>)

Please list each material that contributes towards the amount VISIBLE BACKGROUND MATERIAL listed above.

#### Material 1 Test Data

Test Lab: Vartest Labs	Material Type: □Knitted X Woven □ 0	Other:
Report #: TINGLE.020416J	Material Content (such as Polyester, Mod FR PVC on Polyester	acrylic, and others):
Date: 6/17/16	Weight: 10.5 oz	Color: Fl. Yellow-Green
Description: Exterior coated 2 ply FR I	PVC on 150D Woven Polyester	

#### Material 2 Test Data

Test Lab:	Material Type:  Knitted  Wover	n □ Other:
Report #:	Material Content (such as Polyester,	Modacrylic, and others):
Date:	Weight:	Color:
Description:		

#### Material 3 Test Data

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

\*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) .07m<sup>2</sup> (109 in.<sup>2</sup>)

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

#### Material 1 Test Data

Test Lab: Calcoast – Test Report# 150123-02A		
Date: 2/20/15 Style #: VSF621A		
Description: 50mm wide heat seal silver reflective trim		

### Material 2 Test Data

Test Lab:	
Date:	Style #:
Description:	

\*Use separate sheet for additional materials

The undersigned hereby warrants that he/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: ComfortBrite Color Hi Vis Fluorescent Yellow Green

## Date: February 23, 2016

## Report #: TINGLE.A020416J

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 60085020416J.TINGLE

\*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.

MANATA



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## ISO/ICC 17025 Certified Third Party Test Report

DATE:

FILE: TINGLE.A020416J
PO #: 17125

CLIENT: Tingley Rubber Corporation 1551 S Washington Ave, Suite 403 Piscataway, NJ 08854

February 26, 2016

ATTN: Erika Puello

#### SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted Per ANSI/ISEA 107-2015 Specification Name: ComfortBrite Color Hi Vis Fluorescent Yellow Green

EXECUTIVE SUMMARY:



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.

#### REQUIRED TESTS:

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Determination of Color ASTM E1164-12 (Single layer)	8.2.4 the colormetric require - x = 10.2 ments of Table 3 for y = background material % Y =	N/A		
	ALA DA DA DA DA	TBO	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 = 0.386 y = 0.549 % y = 111.17	PASS
			After 40x Xenon x = 0.360 y = 0.491 % Y = 93.32	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: 4.5Acetate: 5.0Cotton: 5.0Nylon: 5.0Polyester: 5.0Acrylic: 5.0Wool: 5.0	PASS PASS





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

FILE: TINGLE.A020416J PO #: 17125 <u>SAMPLE IDENTIFIED BY CLIENT AS:</u> <u>Fabric Submitted</u> <u>Per ANSI/ISEA 107-2015 Specification</u> Name: ComfortBrite

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	4.28 lbs average	PASS PASS

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#### 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: 4.5Acetate: 5.0Cotton: 5.0Nylon: 5.0Polyester: 5.0Acrylic: 5.0Wool: 5.0	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: 5.0 Cotton: 5.0 Nylon: 5.0 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.A020416J

PO #: 17125

SAMPLE IDENTIFIED BY CLIENT AS: Fabric Submitted Per ANSI/ISEA 107-2015 Specification Name: ComfortBrite

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
		amunt	mmmu	Shade Change: Staining: 390°F	N/A
		and R	TES	Shade Change: Staining:	N/A
Colorfastness Dry Cleaning AATCC 132-2013	8.2.3 Table 4	Shade Change	4.0	L'ind	N/A
Dimensional change 8.3.1 Domestic AATCC 135-2012 (3)IIIA(ii) @ 105°F	8.3.1	Woven L +/- 4%	W +/-2%	5th Cycle Length= -2.3% Width = -0.8%	PASS
	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
Dimensional change 8.3.1 Commercial AATCC 96-2012 IIIc-A and/or E@145°F	8.3.1	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
Dimensional change 8.3.1 Drycleaning AATCC 158-2011	8.3.1	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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## ISO/ICC 17025 Certified Third Party Test Report

TINGLE.A020416J FILE:

PO #:

17125 SAMPLE IDENTIFIED BY CLIENT AS:

> Fabric Submitted Per ANSI/ISEA 107-2015 Specification Name: ComfortBrite Color Hi Vis Fluorescent Yellow Green

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

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Water Repellency	8.5.1	90 New	New:	N/A
AATCC 22-2010		70 After 5X Launderings	After:	N/A
Water Resistance	8.5.2	≤ 1 g of water penetration	New:	N/A
AATCC 35-2013		Level 1	After 5X Launderings:	N/A
Waterproof	8.5.3	200 cm New	New:	N/A
AATCC 127-2013		200 cm After 5X Launderings	After:	N/A
Breathability ASTM E96-2013 Procedure B or BW	8.6	Procedure B: 600 g/m2/24 hr microporous Procedure BW: 3600 g/m2/24 hr hydrophilic	lunted (	N/A N/A

pany By Stacy Sadowy Varley R. Quality Assurance Supervisor Technical Director JG/02/209 Page 4 of 4

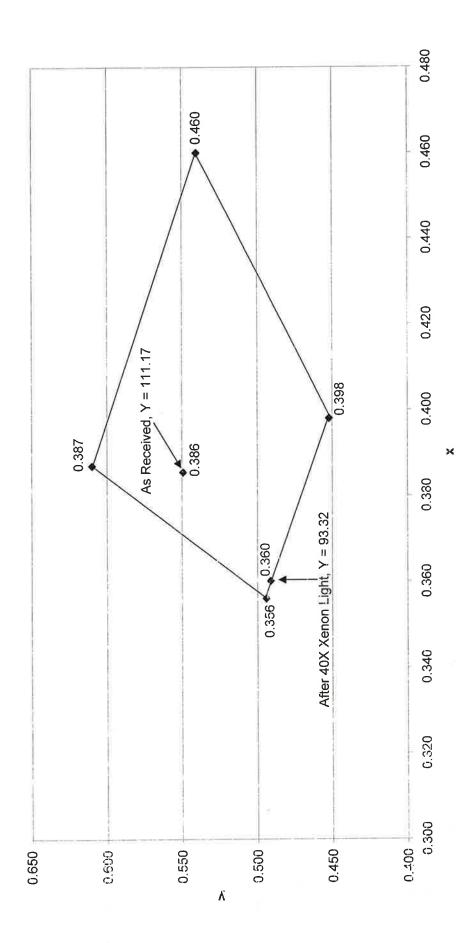


The findings and results in this test report apply only to the specific sample(s) submitted to us by the client for testing.

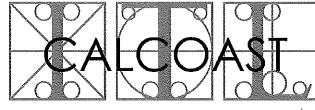


Chromaticity Coordinates TINGLE.A.020416J Fluorescent Yellow-Green ANSI 107-2015 Requirement: Y ≥ 70 Test Performed with Double Layers of Fabric

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LIGHTING TECHNOLOGY



PHOTOMETRIC TESTING

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### CERTIFICATE OF COMPLIANCE

Based on Report No. 150123-02A

Report Date: 20 February 2015

Project Name: Tingley N-FR Heat Seal Manunite VSF621A.05 500 CPL Silver Non-stretch Retroreflective Trim applied to Fl. Orange Background Fabric

Submitted by: Tingley Rubber Corporation South Plainfield, NJ 07080

Test Laboratory: Calcoast - ITL San Leandro, CA 94577

Product: 50 mm (2") wide retroreflective trim applied to F1. Orange Background Fabric, submitted 23 Jan 2015

### SUMMARY

Specification: ANSI/ISEA 107-2010

American National Standard for High-Visibility Safety Apparel Retroreflective Material, Level 1 or 2

Color

Prior to Exposure Not Applicable
ColorfastnessNot Applicable
Photometric Performance, Initial
Level 2 Passed
Level 1 Passed
Retroreflection after Test Exposure
Abrasion Passed
Flexing Passed
Folding at Cold Temperatures Folding at Cold Temperatures
Exposure to Temperature Variation Passed
Washing (25X) Passed
Dry-cleaning (OX)
Retroreflective Performance in Rainfall Passed
Flame Resistance Not Tested

Written by:

Douglas G. Cummins Photometric Engineer Approved by:

Mark A. Evans Laboratory Director

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#### PHOTOGRAPH SHEET

Project Name: Tingley N-FR Heat Seal Manunite VSF621A.05 500 CPL Silver Non-stretch Retroreflective Trim applied to Fl. Orange Background Fabric

