D3. Declaration of Conformity

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

Certificate Number: J26112-2015

Company Name: Tingley Rubber Corporation

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

Product Description: Bomber II Jacket, Fluorescent Yellow-Green

Model Number: J26112

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 Type R Performance Class <u>3</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): >.80m² (1240 in.²)

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	□ Other:		
Report #: TINGLE.020416E	Material Content (such as Polyester PU on Polyester	r, Modacrylic, and others):		
Date: 2/23/16	Weight: 4.0 oz	Color: Fl. Yellow-Green		
Description: Interior Coated Polyurethane on 210D Woven Polyester with Exterior DWR Coating				

Material 2 Test Data

Test Lab:	Material Type: CKnitted CWoven COther:
Report #:	Material Content (such as Polyester, Modacrylic, and others):
Date:	Weight: Color:
Description:	

Material 3 Test Data

Test Lab:	Material Type: Content Knitted Woven Conter:
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) .20m² (310 in.²)

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

Material 1 Test Data

Test Lab: Calcoast – Test Report# 160613-04A			
Date: 7/12/2016 Style #: 1304-4			
Description: 50mm wide sew on 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: _____





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

*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 ATTN: Erika Puello 1551 S Washington Ave, Suite 403 Piscataway, NJ 08854

SAMPLE IDENTIFIED BY CLIENT AS:

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

EXECUTIVE SUMMARY:



FAIL

AL COMPANY OF

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 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
	(Internet	TRA	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





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ISO/ICC 17025 Certified Third Party Test Report

TINGLE.A020416E FILE:

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/Hethod	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

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:4.5Cotton:5.0Nylon:4.5Polyester:5.0Acrylic:5.0Wool: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: 5.0Acetate: 4.5Cotton: 5.0Nylon: 4.5Polyester: 5.0Acrylic: 5.0Wool: 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:	N/A
		antinti	11111111111111	300°F Shade Change: Staining: 390°F	N/A
		Martin R	TE	Shade Change: Staining:	N/A
Colorfastness Dry Cleaning AATCC 132-2013	8.2.3 Table 4	Shade Change	4.0	Sud (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	hanne	Knit or Coate	d, Non-Woven	5th Cycle Length= Width =	N/A

TESTED AS CARE LABEL DICTATES (cont.):

Test/Method	Section	ANSI/ISEA 107 REQUIREMENT	S TEST RESULT	PASS/FAIL/NA
Dimensional change 8.3.1 Commercial AATCC 96-2012 IIIc-A and/or E@145°F	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	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: 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 (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 ASIM E96-2013 Procedure B or BW	8.6	Procedure B: 600 g/m2/24 hr microporous Procedure BW: 3600 g/m2/24 hr hydrophilic	wated (N/A

🗭 Company By m R. Ac Technical Director JG/02/204

Stacy Sadowy Quality Assurance Supervisor

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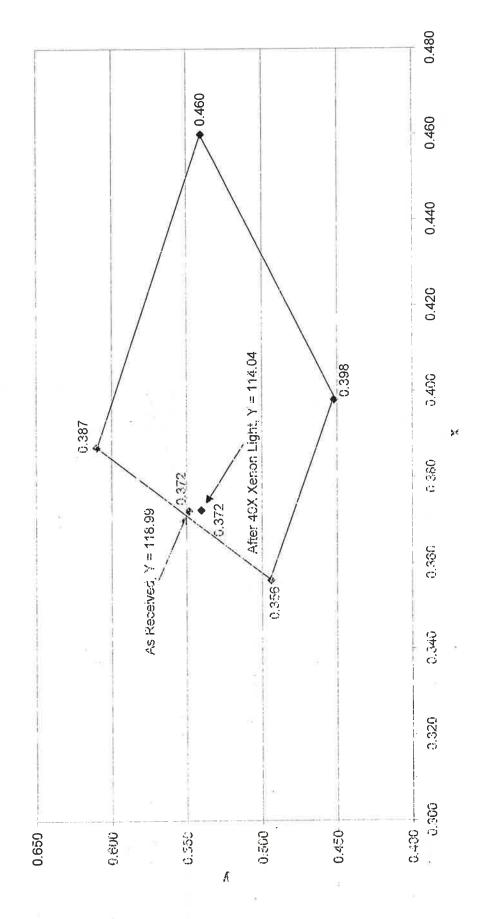
The findings and results in this test report apply only to the specific sample(s) submitted to us by the client for testing.

Wartest

Quality Assurance & Compliance Testing Utilizing Textile & Related Technologies 19 West 36 Street, Tenth Floor tel: 212 947 8391 fax: 212 947 8719 www.vartest.com

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

Chromaticity Coordinates



LIGHTING TECHNOLOGY



PHOTOMETRIC TESTING

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

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 Sew-on Chinastars 1303-4; T/C base [non-waterproof] reflective trim

