D3. Declaration of Conformity

Declaration of Conformity to ANSI/ISEA 107-2015, High-Visibility Safety Apparel Certificate Number: V73832-2015 Company Name: Tingley Rubber Corporation Address: 1551 S. Washington Ave Suite 403 Piscataway NJ 08854 Product Description: Class 2 Mesh/Solid, Surveyor Style Zipper Closure Vest, Fluorescent Yellow-Green Model Number: V73832 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 _2_ 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): >.50m² (775 in.²) Please list each material that contributes towards the amount VISIBLE BACKGROUND MATERIAL listed above. Material 1 Test Data Material Type: X Knitted □ Woven □ Other: Test Lab: Vartest Labs Material Content (such as Polyester, Modacrylic, and others): Report #: TINGLE.A020416L 100% Polyester Weight: 3.05 oz Color: Fl. Yellow-Green Date: 2/23/16 Description: 100% Polyester Mesh **Material 2 Test Data** Material Type: X Knitted □ Woven □ Other: Test Lab: Vartest Labs Material Content (such as Polyester, Modacrylic, and others): Report #: TINGLE.A020416N 100% Polyester Weight: 3.05 oz Color: Fl. Yellow-Green Date: 2/23/16 Description: 100% Polyester Solid **Material 3 Test Data** Material Type: ☐Knitted ☐ Woven ☐ Other: Test Lab: Material Content (such as Polyester, Modacrylic, and others): Report #: Weight: Color: Date:

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) .13m² (201 in.²)

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

Mate	rial	1 .	Test	Data

Test Lab: Calcoast – Test Report# 150	123-02A
Date: 2/20/15	Style #: CSR 1303-2
Description: 50mm wide sew on silver r	eflective trim

Material 2 Test Data

Test Lab:	
Date:	Style #:
Description:	

The undersigned hereby warrants that he/she is authorized to legally bind the company identified above.

Signed:	Title:
Print Name:	Date:

^{*}Use separate sheet for additional materials



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

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

Submitted by: Tingley Rubber Corporation
Name: Mesh Vest
Color Hi Vis Fluorescent Yellow Green

Date: February 23, 2016 Report #: TINGLE.A020416L

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 60085020416L.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.A020416L

PO #: 17123

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: Mesh Vest Color Hi Vis Fluorescent Yellow Green

EXECUTIVE SUMMARY:

PASS

FAIL

Х

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)	8.1.1 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
	Hamman	780	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 = 0.397 y = 0.534 % Y = 90.85	PASS
			After 40x Xenon x = 0.394 y = 0.512 % Y = 84.32	PASS
Colorfastness Crocking AATCC 8-2013	8.2.1	Wet 3.0 Dry 3.0	Wet: 4.5 Dry: 4.5	PASS PASS
Colorfastness Perspiration AATCC 15-2013	8.2.2	Shade change 4.0 Staining 3.0	Shade Change: 4.5 Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 Acrylic: 5.0 Wool: 4.5	PASS PASS





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ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A020416L

PO #: 17123

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Mesh Vest

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)	106.6 lbs average	PASS
Tear Resistance (Woven) ASTM D1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Avg. force machine Avg. force cross-machine	4.4	N/A N/A

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 Acetate: 4.0 Cotton: 4.5 Nylon: 3.5 Polyester: 4.5 Acrylic: 5.0 Wool: 4.0	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: 4.5 Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 Acrylic: 5.0 Wool: 4.5	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.A020416L

PO #: 17123

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric_Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Mesh Vest

Color Hi Vis Fluorescent Yellow Green

TESTED AS CARE LABEL DICTATES:

Test/Method	Section	ANSI/ISEA 107 REQUIREM	ENTS TEST RESULT	PASS/FAIL/NA
Colorfastness Hot-pressing AATCC 133-2013	8.2.3 Table 4	Shade Change: 4.5 Staining: 3.0	230°F Shade Change: 5.0 Staining: 5.0 300°F	PASS
		mannannana.	Shade Change: 5.0 Staining: 5.0	PASS
		BIE RIE	Shade Change: 5.0 Staining: 5.0	PASS
Colorfastness Dry Cleaning AATCC 132-2013	8.2.3 Table 4	Shade Change 4.0	Total ?	N/A
Dimensional change Domestic AATCC 135-2012	8.3.1	Woven L +/- 4% W +/-2%	5th Cycle Length= Width =	N/A
(3)IIIA(ii) @ 105°F	Hauth	Knit or Coated, Non-Wo	oven 5th Cycle Length= -2.7% Width = -1.3%	PASS

TESTED AS CARE LABEL DICTATES (cont.):

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Dimensional change 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 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

FILE: TINGLE.A020416L

PO #: 17123

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Mesh Vest

Color Hi Vis Fluorescent Yellow Green

TESTED AS CARE LABEL DICTATES (cont.):

Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
8.5.1	90 New	New:	N/A
	70 After 5X Launderings	After:	N/A
8.5.2	≤ 1 g of water penetration	New:	N/A
	Level 1	After 5X Launderings:	N/A
8.5.3	200 cm New	New:	N/A
	200 cm After 5X Launderings	After:	N/A
8.6	Procedure B: 600 g/m2/24 hr microporous Procedure BW: 3600 g/m2/24 hr	enated	N/A
	8.5.1 8.5.2 8.5.3	90 New 70 After 5X Launderings 8.5.2 ≤ 1 g of water penetration Level 1 8.5.3 200 cm New 200 cm After 5X Launderings 8.6 Procedure B: 600 g/m2/24 hr microporous Procedure BW:	8.5.1 90 New 70 After 5X Launderings 8.5.2 ≤ 1 g of water penetration Level 1 New: After 5X Launderings: 8.5.3 200 cm New 200 cm After 5X Launderings New: After: New: After: After: New: After: Procedure B: 600 g/m2/24 hr microporous Procedure BW: 3600 g/m2/24 hr

igned For The Company By

Technical Director

JG/02/211

Stacy Sadowy

Quality Assurance Supervisor

Page 4 of 4

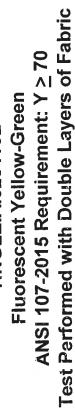


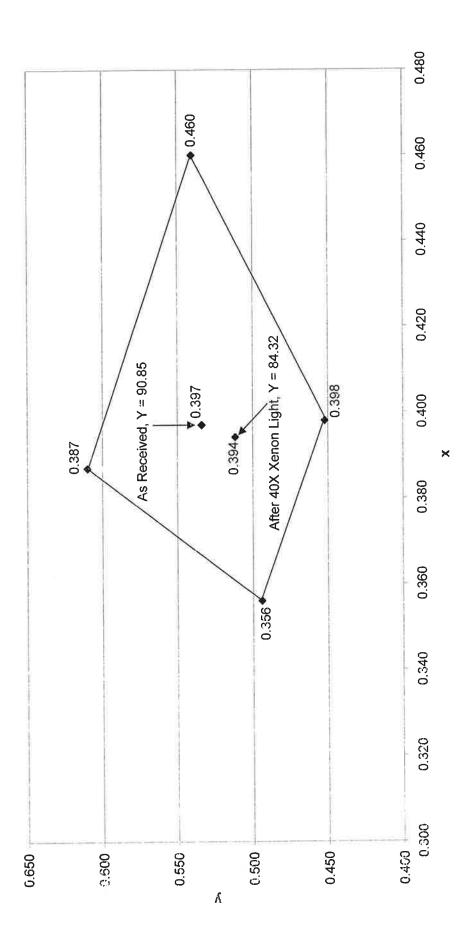


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Fluorescent Yellow-Green **Chromaticity Coordinates** TINGLE.A.020416L







PHOTOMETRIC TESTING

INDUSTRIAL TESTING LABORATORY

CERTIFICATE OF COMPLIANCE

Based on Report No. 150123-02A

Report Date:

20 February 2015

Project Name:

Tingley CSR 1303-2 Non-Waterproof Sew-On

Silver Retroreflective Trim on PE Base

Submitted by:

Tingley Rubber Corporation

South Plainfield, NJ 07080

Test Laboratory:

Calcoast - ITL

San Leandro, CA 94577

Product:

50 mm (2") wide retroreflective trim,

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
Colorfastness
Photometric Performance, Initial
Level 2 Passed
Level 1 Passed
Retroreflection after Test Exposure
Abrasion Passed
Flexing Passed
Folding at Cold Temperatures Passed
Exposure to Temperature Variation
Washing (25X) Passed
Dry-cleaning (OX)
Retroreflective Performance in Rainfall Passed
Flame Resistance

Written by:

Douglas G. Cummins Photometric Engineer Approved by:

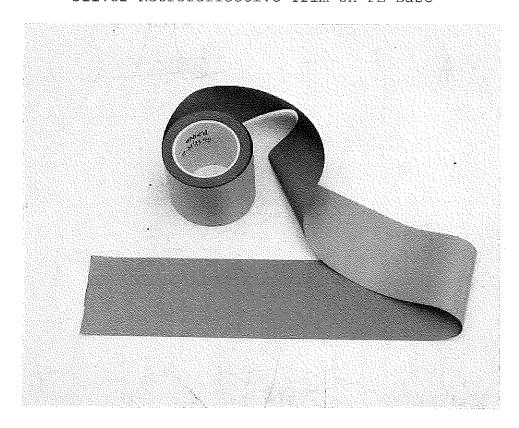
Mark A. Evans

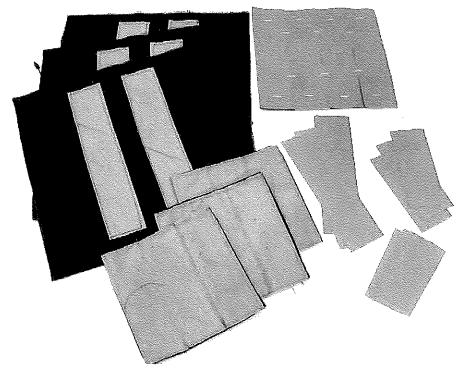
Laboratory Director

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PHOTOGRAPH SHEET

Project Name: Tingley CSR 1303-2 Non-Waterproof Sew-On Silver Retroreflective Trim on PE Base







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

Submitted by: Tingley Rubber Corporation
Name: Solid Vest
Color Hi Vis Fluorescent Yellow Green

Date: February 23, 2016 Report #: TINGLE.A020416N

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 60085020416N.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.A020416N

PO #: 17121

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: Solid Vest

Color Hi Vis Fluorescent Yellow Green

EXECUTIVE SUMMARY:

PASS

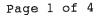
FAIL

Х

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)	8.1.1 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
	dimore	78000	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 = 0.383 y = 0.539 % Y = 79.95	PASS
		, - = m-n	After 40x Xenon x = 0.381 y = 0.522 % Y = 74.94	PASS
Colorfastness Crocking AATCC 8-2013	8.2.1	Wet 3.0 Dry 3.0	Wet: 4.5 Dry: 5.0	PASS PASS
Colorfastness Perspiration AATCC 15-2013	8.2.2	Shade change 4.0 Staining 3.0	Shade Change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 5.0 Acrylic: 5.0 Wool: 5.0	PASS PASS







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ISO/ICC 17025 Certified Third Party Test Report

FILE: TINGLE.A020416N

PO #: 17121

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Solid Vest

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)	170.1 lbs average	PASS
Tear Resistance (Woven) ASTM D1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Avg. force machine Avg. force cross-machine	4.5	N/A N/A

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: 4.0 Cotton: 5.0 Nylon: 3.5 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: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	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.A020416N

PO #: 17121

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Solid Vest

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: 5.0 Staining: 5.0 300°F	PASS
		minute.	arumn _{thi}	Shade Change: 5.0 Staining: 5.0 390°F	PASS
		Runnin R	TES	Shade Change: 5.0 Staining: 5.0	PASS
Colorfastness Dry Cleaning AATCC 132-2013	8.2.3 Table 4	Shade Change	4.0	and 7	N/A
Dimensional change Domestic AATCC 135-2012 (3)IIIA(ii) @ 105°F	8.3.1	Woven L +/- 4% \	J +/-2%	5th Cycle Length= Width =	N/A
		Knit or Coated	d, Non-Woven	5th Cycle Length= -2.2% Width = -1.0%	PASS

TESTED AS CARE LABEL DICTATES (cont.):

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Dimensional change 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

FILE: TINGLE.A020416N

PO #: 17121

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted

Per ANSI/ISEA 107-2015 Specification

Name: Solid Vest

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	enated (N/A

igned For The Company By

Technical Director

JG/02/213

Stacy Sadowy

Quality Assurance Supervisor







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Chromaticity Coordinates TINGLE.A.020416N Fluorescent Yellow-Green ANSI 107-2015 Requirement: Y ≥ 70

