

**Third Party Certificate of Test
(ANSI/ISEA 107-2020)
HIGH VISIBILITY COMPLIANCE**

Submitted by: Haining Riyue Warp Knitting Co., Ltd.
Manufacturer: Haining Riyue Warp Knitting Co., Ltd., Name: Knitted Fabric
100% Polyester
Color Fluorescent Orange

Date: April 9, 2021

Test Report #: HRIYUE.A032921C

The fabric submitted, **MEETS** the requirements of ANSI/ISEA 107-2020 Specification for the tests conducted in this report covering high visibility background material.

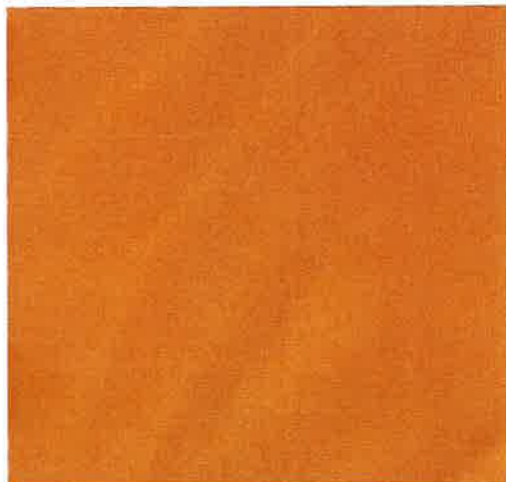
All of the above tests and evaluations were performed in accordance with ISO/IEC 17025 Quality Systems.

This certification applies to background material only.

Certificate authorized by:



Joseph Lin
Laboratory Manager



ISO/IEC 17025 Third Party Test Report

DATE: April 9, 2021

FILE: HRIYUE.A032921C

CLIENT: Haining Riyue Warp Knitting Co., Ltd.
No.10 Chaoyang Rd, Haining Economic Zone
Haining City, Zhejiang Province, China

ATTN: Charles Gao

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted
Per ANSI/ISEA 107-2020 Specification
Manufacturer: Haining Riyue Warp Knitting Co., Ltd.
Name: Knitted Fabric, PO #: RY 2021-03
100% Polyester
Color Fluorescent Orange

EXECUTIVE SUMMARY:

PASS

FAIL

The submitted fabric **MEETS** the requirements of ANSI/ISEA 107-2020 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 E1164-17 (Single layer)	8.1.1 8.1.2 10.2	Test specimen must fulfill the colorimetric requirements of Table 2 for background material	As submitted: x = 0.588 y = 0.369 % Y = 43.68	PASS
			After 40x Xenon x = 0.539 y = 0.373 % Y = 49.15	PASS
Determination of Color ASTM E1164-17 (Two layers of the same material)	8.1.1 8.1.2 10.2	Test specimen must fulfill the colorimetric requirements of Table 2 for background material	As submitted: x = y = % Y =	N/A
			After 40x Xenon x = y = % Y =	N/A

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REQUIRED TESTS:

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Colorfastness Crocking AATCC 8-2016	8.2.1	Wet 3.0 Dry 3.0	Wet: 3.5 Dry: 4.5	PASS PASS
Colorfastness Perspiration AATCC 15-2013	8.2.2	Shade change 4.0 Staining 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
Bursting Strength (Knitted or Other Nonwovens) - not applicable to single-use disposable coveralls ASTM D6797-07 (2016) or ASTM D6797-07 (2015)	8.4.1	178 N (40 lbf) (18.1fkg)	166.5 lbf average	PASS
Tear Resistance (Woven) ASTM D1424-09 (2013) - not applicable to single-use disposable coveralls ASTM D1424-09 (2019)	8.4.2	13 N (1326 gf) (2.92 lbf) Avg. force machine Avg. force cross-machine		N/A N/A
Seam Strength (single-use disposable coveralls only) ASTM D1683/D1683M-17 (2018)	11.3	40N (9 lbf)		N/A

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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 160°F	8.2.3 Table 3	Shade Change 4.5 Staining 3.0	Shade Change: Acetate: Cotton: Nylon: Polyester: Acrylic: Wool:	N/A N/A
Colorfastness Domestic Laundry AATCC 61-2013-2A 105°F (Modified)	8.2.3 Table 3	Shade Change 4.5 Staining 3.0	Shade Change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 3.5 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	PASS PASS
Colorfastness Commercial Laundry AATCC 61-2013-3A 145°F (Modified)	8.2.3 Table 3	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 3	Shade Change 3.0 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 PASS
Colorfastness Hypochlorite Bleaching AATCC 61-2013-4A (Commercial)	8.2.3 Table 3	Fading 4.0		N/A
Colorfastness Hypochlorite Bleaching AATCC 61-2013-5A (Domestic)	8.2.3 Table 3	Fading 4.0		N/A

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TESTED AS CARE LABEL DICTATES:

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Colorfastness Hot-pressing AATCC 133-2013 *Coated fabrics are exempt	8.2.3 Table 3	Shade Change: 4.5 Staining: 3.0	230°F Shade Change: 5.0 Staining: 5.0	PASS
			300°F Shade Change: 5.0 Staining: 5.0	PASS
			390°F Shade Change: 5.0 Staining: 5.0	PASS
Colorfastness Dry Cleaning AATCC 132-2013	8.2.3 Table 3	Shade Change 4.0		N/A
Dimensional change Domestic AATCC 135-2018 MWPP W TDPP Unrestored	8.3.1	Woven L +/- 4% W +/-4%	5th Cycle Length= Width =	N/A
		Knit or Coated, Non-Woven L +/- 7% W +/-5%	5th Cycle Length= -0.4% Width = +0.8%	PASS
Dimensional change Commercial AATCC 96-2012 IIIC-A and/or E@145°F	8.3.1	Woven L +/- 4% W +/-4%	5th Cycle Length= Width =	N/A
		Knit or Coated, Non-Woven L +/- 7% W +/-5%	5th Cycle Length= Width =	N/A
Dimensional change Drycleaning AATCC 158-2016	8.3.1	Woven L +/- 4% W +/-4%	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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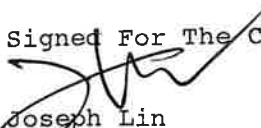
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TESTED AS CARE LABEL DICTATES:

Test/Method	Section	ANSI/ISEA 107 REQUIREMENTS	TEST RESULT	PASS/FAIL/NA
Water Repellency AATCC 22-2017	8.5.1	90 New 70 After 5X Washings	New: After:	N/A N/A
Water Resistance AATCC 35-2018	8.5.2	≤ 1 g of water penetration Level 1	New: After 5X Launderings:	N/A N/A
Waterproof AATCC 127-2017	8.5.3	200 cm New 200 cm After 5X Launderings	New: After:	N/A N/A
Breathability ASTM E96-2016 Procedure B or BW	8.6	Procedure B: 600 g/m ² /24 hr microporous Procedure BW: 3600 g/m ² /24 hr hydrophilic		N/A N/A

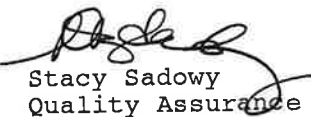
COMMENT: See chromaticity graph on attached document HRIYUE.A032921C-SUPP.

Signed For The Company By


Joseph Lin
Laboratory Manager

CF/04




Stacy Sadowy
Quality Assurance Manager



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