



Quality Assurance & Compliance Testing
Utilizing Textile & Related Technologies

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

Submitted by: Haining Chengye Warp Knitting Co., Ltd.
Manufacturer: Haining Chengye Warp Knitting Co., Ltd., Name: Polyester Knit Fabric
100% Polyester
Color Fluorescent Yellow-Green

Date: February 23, 2021

Test Report #: HAICHE.A020921A

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



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.

ISO/IEC 17025 Third Party Test Report

DATE: February 23, 2021

FILE: HAICHE.A020921A

CLIENT: Haining Chengye Warp Knitting Co., Ltd. ATTN: Ken Cheng
North District, No.76,
Jingbian ten Road, Maqiao Street
Haining City Zhejiang Province China

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted
Per ANSI/ISEA 107-2020 Specification
Manufacturer: Haining Chengye Warp Knitting Co., Ltd.
Name: Polyester Knit Fabric
100% Polyester
Color Fluorescent Yellow-Green

EXECUTIVE SUMMARY:

PASS

FAIL

X

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 = y = % Y = After 40x Xenon x = y = % Y =	N/A N/A
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 = 0.374 y = 0.554 % Y = 109.99 After 40x Xenon x = 0.378 y = 0.522 % Y = 97.21	PASS PASS

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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: 4.5 Dry: 4.0	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: 4.0 Nylon: 4.0 Polyester: 4.5 Acrylic: 4.5 Wool: 4.0	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) (18.1kg)	160.3 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: 3.5 Cotton: 4.0 Nylon: 3.0 Polyester: 4.5 Acrylic: 4.5 Wool: 3.5	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 3.0	Shade Change: 5.0 Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	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: 5.0 300°F Shade Change: 5.0 Staining: 5.0 390°F Shade Change: 5.0 Staining: 5.0	PASS PASS 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= -3.2% Width = -1.4%	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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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/m2/24 hr microporous Procedure BW: 3600 g/m2/24 hr hydrophilic		N/A N/A

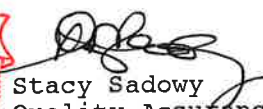
COMMENT: See chromaticity graph on document HAICHE.A020921A-SUPP.

Signed For The Company By



Joseph Lin
Laboratory Manager

CF/02

Stacy Sadowy
Quality Assurance Manager

FILE: HAICHE.A020921A-SUPP

