

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

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

Date: February 23, 2021

Test Report #: HAICHE.A020921C

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:** February 23, 2021 **FILE:** HAICHE.A020921C  
**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 Mesh  
100% Polyester  
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**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 colormetric require - ments of Table 2 for background material	As submitted: x = y = % Y =	N/A
			After 40x Xenon x = y = % Y =	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 colormetric require - ments of Table 2 for background material	As submitted: x = 0.372 y = 0.548 % Y = 90.90	PASS
			After 40x Xenon x = 0.371 y = 0.518 % Y = 82.96	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: 4.5	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: 4.5	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)	80.8 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: 4.0 Cotton: 4.5 Nylon: 3.0 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 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: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 5.0 Acrylic: 4.5 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= -4.5% Width = -6.1%	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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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 <sup>2</sup> /24 hr microporous		N/A
		Procedure BW: 3600 g/m <sup>2</sup> /24 hr hydrophilic		N/A

**COMMENT:** See chromaticity graph on document HAICHE.A020921C-SUPP.

Signed For The Company By

*Joseph Lin*  
Joseph Lin  
Laboratory Manager

CF/02



*Stacy Sadowy*  
Stacy Sadowy  
Quality Assurance Manager

FILE: HAICHE.A020921C-SUPP

