

Third Party Certification
(ANSI/ISEA 107-2020)
HIGH VISIBILITY COMPLIANCE CERTIFICATE

Submitted by: Haining Jintai Knitting Co Ltd
Name: 13001 Birdeye
100% Polyester
Color Hi-Vis Orange

Date: December 4, 2020

Test Report #: HAININ.A112020E

The submitted fabric **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 the 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 Certified Third Party Test Report

DATE: December 4, 2020 **FILE:** HAININ.A112020E
CLIENT: Haining Jintai Knitting Co. Ltd **ATTN:** Rondo Jin
 No. 1 Shuangbei Road
 HaiNing, Zhejiang
 314400 P.R. China

SAMPLE IDENTIFIED BY CLIENT AS:

Fabric Submitted
Per ANSI/ISEA 107-2020 Specification
Name #: 13001 Birdeye
100% Polyester
Color Hi-Vis 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 colormetric requirements of Table 2 for background material	As submitted: x = 0.601 y = 0.365 % Y = 44.70	PASS
			After 40x Xenon x = 0.571 y = 0.374 % Y = 47.45	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 colormetric 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: 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: 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)	160.2 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: 5.0 Cotton: 4.5 Nylon: 4.5 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 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
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 MWH @ 140°F TDL Low Iron	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= -0.3% Width = +0.4%	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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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		N/A
		Procedure BW: 3600 g/m2/24 hr hydrophilic		N/A

Signed For The Company By

[Signature]
Joseph Lin
Laboratory Manager

JG/11



[Signature]
Stacy Sadowy
Quality Assurance Manager



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