

TexTesT Report: 4204 5
Date: 03/22/17
Page: 1 of 5

Certificate of Test

CLIENT:

HAINING HANGYI TEXTILE CO,
NO. 90, Zhen Bao Road
Ding Qiao Town 00000
Haining, China

Attn: Bennie Zhou

Material Description: Fluorescent Knit Fabric
Fabric <input checked="" type="checkbox"/> Non-Fabric _____ (check one)
Lot #: Submit 12/16/2016
Manufacturer:
Color: HI-VIS Fluorescent Yellow


COMMENT:


We certify that the sample identified above was tested in accordance with the specification and complies with the requirements for D1. background materials testing of ANSI/ISEA 107-2015.


TEXTTEST



Signed by

Material Description: Fluorescent Knit Fabric		Test Lab: 		
Fabric <input checked="" type="checkbox"/> Non-Fabric <input type="checkbox"/> (check one)		Report # 4204 4		
Lot #: Submit 12/16/2016		Address: 4207-1 Milgen Road Columbus, GA 31907		
Manufacturer:		Contact Person: Ann R. Underwood		
Color: HI-VIS Fluorescent Yellow		Date Tested: 3/22/2017		
TEST FOR ALL MATERIALS				
Test/Method	Section	ANSI/ISEA 107-2015 Requirement	Test Result	Pass/ Fail/ NA
Determination of Color ASTM E1164-12 (Single layer)	8.1. 8.2.4 10.2	Test specimen must fulfill the colorimetric requirements of Table 3 for background material	As submitted: x = y = %Y = After 40 AFU Xenon x = y = %Y =	NA NA NA NA NA NA
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 colorimetric requirements of Table 3 for background material	As submitted: x = 0.377 y = 0.544 %Y = 99.0 After 40 AFU Xenon x = 0.378 y = 0.510 %Y = 87.7	Pass Pass Pass Pass Pass Pass
Colorfastness Croaking AATCC 8-2013	8.2.1	Dry 3.0 Wet 3.0	5.0 4.5	Pass Pass
Colorfastness Perspiration AATCC 15-2013	8.2.2	Color Change 4.0 Staining 3.0	5.0 Acetate: 3.0 Cotton: 5.0 Nylon: 5.0 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	Pass Pass Pass Pass Pass Pass
Bursting Strength: (Knitted/Other Nonwovens) ASTM D 3787-07(2011)	8.4.1	267 N (27.2 kgf) (60 lbf)	104 lbf 47kgf	Pass
Tear Resistance (Woven) ASTM D 1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Average force machine Average force cross-machine		NA NA

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TESTED AS CARE LABEL DICTATES				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Colorfastness Domestic/Commercial Laundry AATCC 61-2013-3A 160° F	8.2.3 Table 4	Color change 4.5 Staining 3.0	Acetate: Cotton: Nylon: Polyester: Acrylic: Wool:	NA NA NA NA NA NA
Colorfastness Domestic/Commercial Laundry AATCC 61-2013-2A 105° F (modified)	8.2.3 Table 4	Color change 4.5 Staining 3.0	4.5 Acetate: 4.5 Cotton: 5.0 Nylon: 4.0 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	Pass Pass Pass Pass Pass Pass Pass
Colorfastness Domestic/Commercial Laundry AATCC 61-2013-3A 145° F (modified)	8.2.3 Table 4	Color change 4.5 Staining 3.0	Acetate: Cotton: Nylon: Polyester: Acrylic: Wool:	NA NA NA NA NA NA
Colorfastness Water AATCC 107-2013	8.2.3 Table 4	Color change 3.0 Staining 3.0	5.0 Acetate: 5.0 Cotton: 5.0 Nylon: 5.0 Polyester: 5.0 Acrylic: 5.0 Wool: 4.5	Pass Pass Pass Pass Pass Pass Pass
Colorfastness Hypochlorite Bleaching (commercial) AATCC 61-2013-4A	8.2.3 Table 4	Fading 4.0		NA
Colorfastness Hypochlorite Bleaching (domestic) AATCC 61-2013-5A	8.2.3 Table 4	Fading 4.0	4.5	Pass
Colorfastness Hot-pressing AATCC 133-2013	8.2.3 Table 4	Color change 4.5 Staining 3.0	4.5 5.0	Pass Pass
Colorfastness Dry cleaning AATCC 132-2013	8.2.3 Table 4	Color change 4.0		NA

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Lot #: Submit 12/16/2016		Contact Person: Ann R. Underwood		
Color: HI-VIS Fluorescent Yellow		Date Tested: 3/22/2017		
TESTED AS CARE LABEL DICTATES (cont)				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Dimensional change Domestic AATCC 135-2012 (3) IIIA(iii) @105°F	8.3.1	Woven L +/- 4% W +/- 2%	5th Cycle Length = Width =	NA NA
		Knit L +/- 7% W +/- 5%	5th Cycle Length = -2.4 Width = -1.6	Pass Pass
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 =	NA NA
		Knit L +/- 7% W +/- 5%	5th Cycle Length = Width =	NA NA
Dimensional change Dry Cleaning AATCC 158-2011	8.3.1	Woven L +/- 4% W +/- 2%	5th Cycle Length = Width =	NA NA
		Knit, Coated or Non Woven	5th Cycle Length = Width =	NA NA
Determination of Color ASTM E1164-12 (Two layers of the same material)	8.1.1	Test specimen must fulfill the colorimetric requirements of Table 3 for background material	After 25 Washes x = 0.364 y = 0.510 %Y = 88.3	Pass Pass Pass
	8.2.4			
	10.2			
	25X			

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TESTED AS CARE LABEL DICTATES (cont)

Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
Water Repellency AATCC 22-2010	8.5.1	90 new 70 after 5 washings		NA NA
Water Resistance AATCC 35-2013	8.5.2	≤ 1 gram of water penetration Level 1		NA
Waterproof AATCC 127-2013	8.5.3	200 cm new and after 5 washings New After 5 washings		NA NA
Breathability ASTM E96-13 Procedure B or BW	8.6	B - 600 g/m ² /24 hr microporous BW - 3600 g/m ² /24 hr hydrophilic		NA NA

