

**Reflective Apparel Factory, Inc.
1649 Sands Place SE, Ste J, Marietta, GA 30067**


The following samples were submitted and identified by the client as:

Two samples of woven oxford fabric cutting in (A) Lime and (B) Orange.

^The test results have been extracted from report number SL117002382163TX Dated on Jun 29, 2017

The test results have been extracted from report number SL117002265495TX Dated on May 29, 2017

Colour : (A) LIME (B)ORANGE

Applicant's Proposed Care Instruction : 

Sample Receiving Date : Jun 29, 2017

Test Performing Period : Jun 29, 2017 Jun 29, 2017

Test Performed : Selected test(s) as requested by applicant (details please refer to result page(s)).

Test Results : Please refer to the next page(s).

Signed for and on behalf of
SGS Hong Kong Ltd.

Ng Siu Lun, Roy
Assistant Technical Manager





Test Report

No.: SL117002388138TX

Date: Jun 29, 2017

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Test Results :

American National Standard for High-Visibility Safety Apparel and Accessories (ANSI/ISEA 107-2015)

Sample A

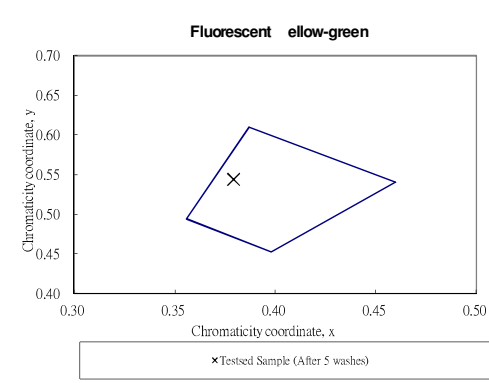
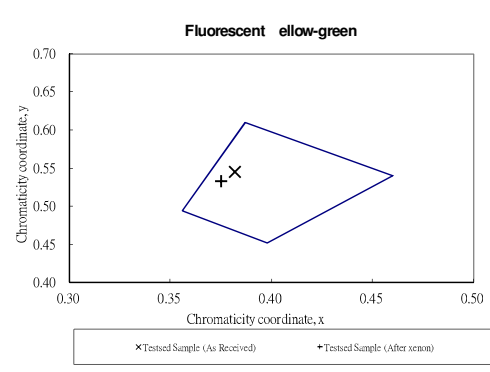
Bac ground Material

TESTS FOR ALL MATERIALS				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
^Determination of Color ASTM E1164-12 (Single layer)	8.1.1 8.2.4 10.2	Test specimen must fulfill the colorimetric requirements of Table 3 for bac ground material	As submitted:	
			x 0.382	Pass
			y 0.545	
			114	Pass
			After 40x Xenon:	
			x 0.375	Pass
y 0.533				
108	Pass			
After 5 washing [#] :				
x 0.379	Pass			
y 0.544				
111	Pass			

[#] Additional tests conducted upon client's request. Washing procedure (follow care label): AATCC 135-2012 Test No. (1)IIA(ii) Machine wash at 80 degree F with 1.8 g total loading (Type 3 ballast specimen) and 66 1g of 1993 AATCC Standard Reference detergent, normal cycle, tumble dry delicate less than 140 degree F

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The chromaticity shall lie within one of the areas defined in ANSI/ISEA 107 Table 3 and the total luminance factor shall exceed the corresponding minimum in ANSI/ISEA 107 Table 3.

Color of background material and combined-performance material

Color	Chromaticity coordinates		Minimum total luminance factor ()
	x	y	
Fluorescent yellow-green	0.387	0.610	70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	

TESTS FOR ALL MATERIALS (cont)				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/Fail/NA
^Colorfastness Croc ing AATCC 8-2013	8.2.1	Dry 3.0 et 3.0	Dry: 4.5 et: 4.5	Pass
^Colorfastness Perspiration AATCC 15-2013	8.2.2	Color change 4.0 Staining 3.0	Color change: 4.5 Staining Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 ool: 4.5	Pass
^Tear Resistance (oven) ASTM D1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Average force machine Average force cross-machine	49.5 N 44.0 N	Pass
# aterproof AATCC 127-2013	8.5.3	200 cm new and after 5 washings	After 5 washings: 453 cm	Pass ()

() Pass for after 5 washings

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TESTS AS CARE LABEL DICTATES				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
^Colorfastness Domestic Laundry AATCC 61-2013-2A 105 F (modified)	8.2.3 Table 4	Color change 4.5 Staining 3.0	Color change: 4.5 Staining Acetate: 4.0 Cotton: 4.5 Nylon: 3.0 Polyester:4.5 Acrylic: 4.5 ool: 4.5	Pass
^Colorfastness ater AATCC 107-2013	8.2.3 Table 4	Color change 3.0 Staining 3.0	Color change: 4.5 Staining Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 Acrylic: 4.5 ool: 4.5	Pass
^Dimensional change Domestic AATCC 135-2012 (3)IIIA(iii) 105 F	8.3.1	nit or Coated, Non- oven L /- 7 /-5	5 th Cycle Length -0.4 idth -0.4	Pass

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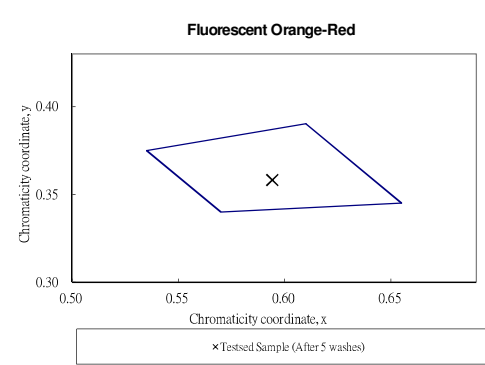
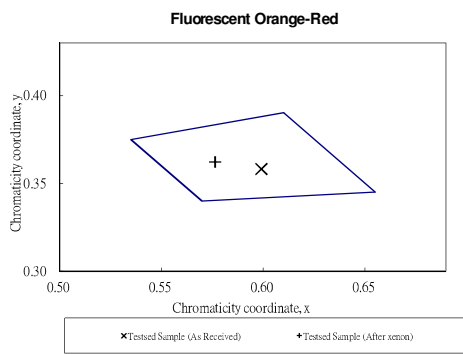
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Sample B

Bac ground Material

TESTS FOR ALL MATERIALS				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
^Determination of Color ASTM E1164-12 (Single layer)	8.1.1 8.2.4 10.2	Test specimen must fulfill the colorimetric requirements of Table 3 for bac ground material	As submitted:	Pass
			x 0.599	
			y 0.358	
			55	Pass
			After 40x Xenon:	Pass
			x 0.576	
y 0.362				
54	Pass			
After 5 washing [#] :	Pass			
x 0.594				
y 0.358				
54	Pass			

[#] Additional tests conducted upon client's request. Washing procedure (follow care label): AATCC 135-2012 Test No. (1)IIA(ii) Machine wash at 80 degree F with 1.8 g total loading (Type 3 ballast specimen) and 66 1g of 1993 AATCC Standard Reference detergent, normal cycle, tumble dry delicate less than 140 degree F



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The chromaticity shall lie within one of the areas defined in ANSI/ISEA 107 Table 3 and the total luminance factor shall exceed the corresponding minimum in ANSI/ISEA 107 Table 3.

Color of background material and combined-performance material

Color	Chromaticity coordinates		Minimum total luminance factor ()
	x	y	
Fluorescent orange-red	0.610	0.390	40
	0.535	0.375	
	0.570	0.340	
	0.655	0.345	

TESTS FOR ALL MATERIALS (cont)				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
^Colorfastness Croc ing AATCC 8-2013	8.2.1	Dry 3.0 et 3.0	Dry: 4.5 et: 4.5	Pass
^Colorfastness Perspiration AATCC 15-2013	8.2.2	Color change 4.0 Staining 3.0	Color change: 4.5 Staining Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester:4.5 Acrylic: 4.5 ool: 4.5	Pass
^Tear Resistance (oven) ASTM D1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Average force machine Average force cross-machine	33.3 N 27.3 N	Pass
# aterproof AATCC 127-2013	8.5.3	200 cm new and after 5 washings	After 5 washings: 456 cm	Pass ()

() Pass for after 5 washings

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TESTS AS CARE LABEL DICTATES				
Test/Method	Section	ANSI/ISEA 107 Requirement	Test Result	Pass/ Fail/ NA
^Colorfastness Domestic Laundry AATCC 61-2013-2A 105 F (modified)	8.2.3 Table 4	Color change 4.5 Staining 3.0	Color change: 4.5 Staining Acetate: 4.5 Cotton: 4.5 Nylon: 4.0 Polyester:4.5 Acrylic: 4.5 ool: 4.5	Pass
^Colorfastness ater AATCC 107-2013	8.2.3 Table 4	Color change 3.0 Staining 3.0	Color change: 4.5 Staining Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 4.5 Acrylic: 4.5 ool: 4.5	Pass
^Dimensional change Domestic AATCC 135-2012 (3)IIIA(iii) 105 F	8.3.1	nit or Coated, Non- oven L /- 7 /-5	5 th Cycle Length -0.4 idth -0.4	Pass

End of Report

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