

Test Report

No.: HKSL1605070880TX

Date: May 27, 2016

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

The following sample was submitted and identified by the client as:

One sample of woven 100% polyester 300D oxford with unbreathable coating cutting in Hi-Vis orange.

Applicant's Proposed Care Instruction :



Machine wash cold water, delicate cycle, wash with like colors, mild detergent, no bleach, tumble dry low, remove immediately, do not iron, do not dry clean, max 5 cycles.

Sample Receiving Date :

May 17, 2016

Test Performing Period :

May 18, 2016 – May 27, 2016

Test Performed :

Selected tests as requested by applicant.
(details please refer to result page)

Test Results :

Please refer to the next page.

Tested sample returned to applicant.

Signed for and on behalf of
SGS Hong Kong Ltd.

A handwritten signature in black ink, appearing to read 'Chan Hing Leung'.

Chan Hing Leung
Senior Technical Development Executive



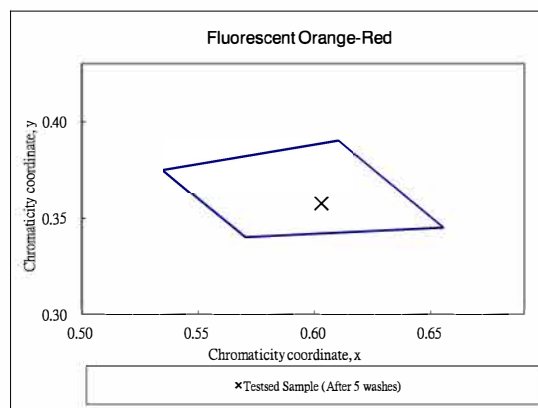
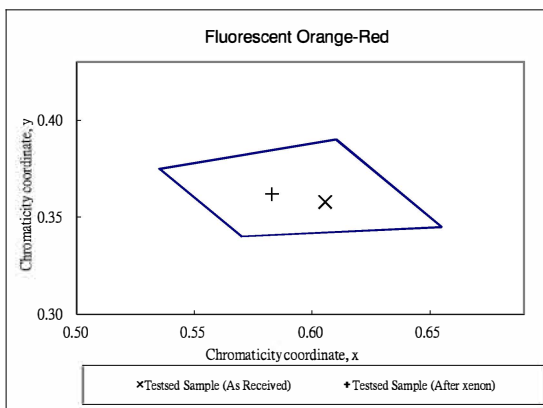
Test Results :

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

Background 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 background material	<i>As submitted:</i> x = 0.605 y = 0.358	Pass
			%Y = 52	Pass
			<i>After 40x Xenon:</i> x = 0.583 y = 0.362	Pass
			%Y = 52	Pass
			<i>After 5 washing#:</i> x = 0.603 y = 0.358	Pass
			%Y = 52	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 kg 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



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.

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Color of background material and combined-performance material

Color	Chromaticity coordinates		Minimum total luminance factor Y(%)
	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 Crocking AATCC 8-2013	8.2.1	Dry 3.0 Wet 3.0	Dry: 4.5 Wet: 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 Acrylic: 4.5 Wool: 4.5	Pass
Tear Resistance (Woven) ASTM D1424-09 (2013)	8.4.2	13 N (1326 gf) (2.92 lbf) Average force machine Average force cross-machine	35.5 N 34.6 N	Pass

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 Wool: 4.5	Pass
Colorfastness Water 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 Wool: 4.5	Pass

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Dimensional change Domestic AATCC 135-2012 (3)IIIA(iii)@105°F	8.3.1	Knit or Coated, Non-Woven L +/- 7% W +/-5%	5 th Cycle Length = -0.8 Width = -0.8	Pass
Water Repellency AATCC 22-2010	8.5.1	90 new, 70 after 5 washings	New: 90 After 5 washings [#] : 90	Pass
Water Resistance AATCC 35-2013	8.5.2	≤ 1 gram of water penetration Level 1	New: 0 g After 5 washings [#] : 0 g	Pass
Waterproof AATCC 127-2013	8.5.3	200 cm new and after 5 washings	New: exceed 500 cm After 5 washings [#] : exceed 500 cm	Pass

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*** End of Report ***

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