

Test Report

No.: HKSL1604042820TX

Date: Apr 20, 2016

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

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

One sample of soft shell: polyester shell + TPU laminate film + fleece back cutting in hi-vis yellow.

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 25 CYCLES

Sample Receiving Date : Apr 05, 2016

Test Performing Period : Apr 06, 2016 – Apr 20, 2016

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

Test Results : * * * *
Please refer to the next page.

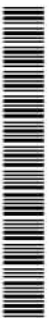
Tested sample returned to applicant.

Signed for and on behalf of
SGS Hong Kong Ltd.

Chan Hing Leung
Senior Technical Development Executive

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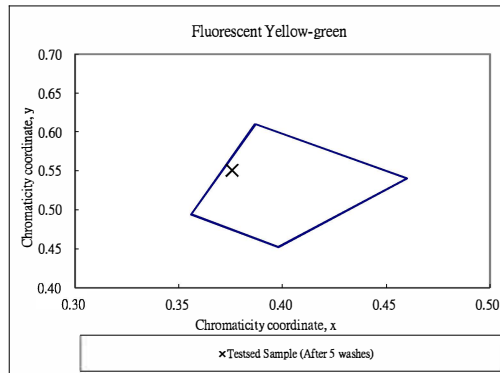
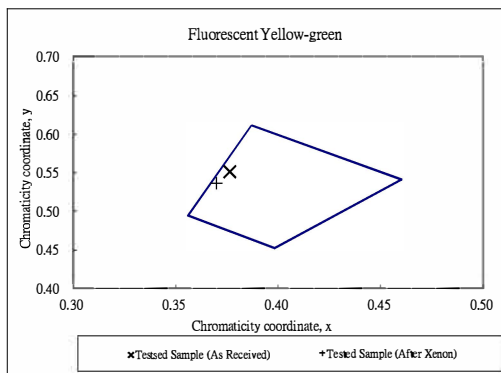
Test Results :

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 = 0.376 y = 0.551	Pass
			%Y = 124	Pass
			<i>After 40x Xenon:</i> x = 0.370 y = 0.536	Pass
			%Y = 119	Pass
			<i>After 5 Washes[#]:</i> x = 0.376 y = 0.551	Pass
			%Y = 124	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 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 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: 4.5 Cotton: 4.5 Nylon: 4.5 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	61.5 43.2	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: 3.5 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: 4.5 Cotton: 4.5 Nylon: 4.5 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 = -0.4 Width = -1.2	Pass
Water Repellency AATCC 22-2010	8.5.1	90 new, 70 after 5 washings	New: 95 After 5 washings#:80	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
Breathability ASTM E96-13 Procedure B or BW	8.6	Procedure BW 3600 g/m ² /24 hr hydrophilic	4500 g/m ² /24 hr	Pass

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

*** End of Report ***

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