

Test Report

No.: HKSL1604041291TX

Date: Apr 15, 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 knitted 100% polyester mesh 110 (+/-5%)gsm 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 5 CYCLES



Sample Receiving Date : Apr 01, 2016

Test Performing Period : Apr 02, 2016 – Apr 15, 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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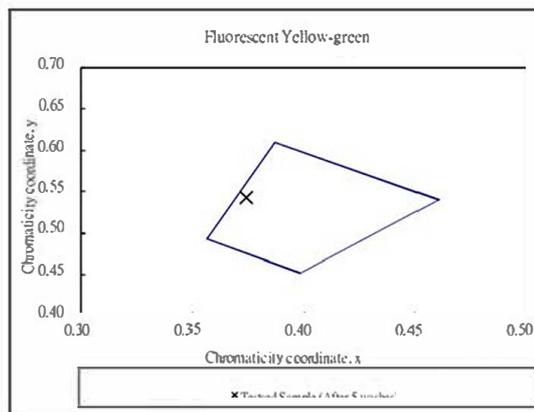
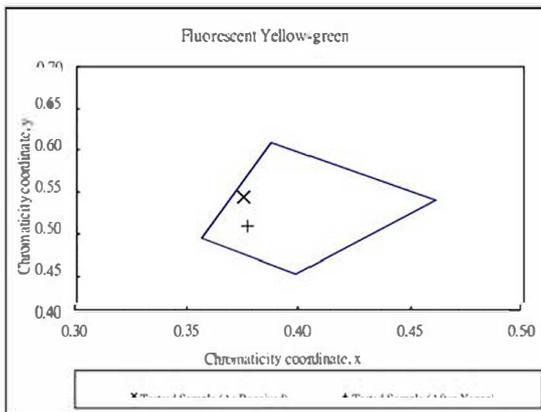
Test Results :

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 (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	<i>As submitted:</i> x = 0.374 y = 0.545	Pass
			%Y = 97	Pass
			<i>After 40x Xenon:</i> x = 0.376 y = 0.510	Pass
			%Y = 87	Pass
			<i>After 5 washing[#]:</i> x = 0.374 y = 0.544	Pass
			%Y = 100	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



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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 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:3.5 Cotton: 4.0 Nylon: 3.5 Polyester:4.0 Acrylic: 4.0 Wool: 4.5	Pass
Bursting Strength (Knitted/Other Nonwovens) ASTM D3787-07 (2011); or ASTM D6797-07 (2011)	8.4.1	267 N (27.2 kgf) (60 lbf)	405.2	Pass

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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: 3.5 Cotton: 4.0 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: 3.5 Cotton: 4.0 Nylon: 3.5 Polyester:4.0 Acrylic: 4.5 Wool: 4.5	Pass
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 = -2.0 Width = -0.8	Pass

*** End of Report ***

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