

Test Report

No.: HKSL1604042793TX

Date: Apr 20, 2016

Page 1 of 4

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 fleece, 270 (+/-5%) gsm 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 : 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

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic formal documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



Test Report

No.: HKSL1604042793TX

Date: Apr 20, 2016

Page 2 of 4

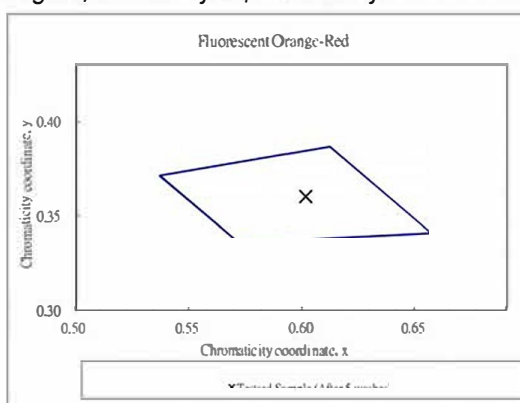
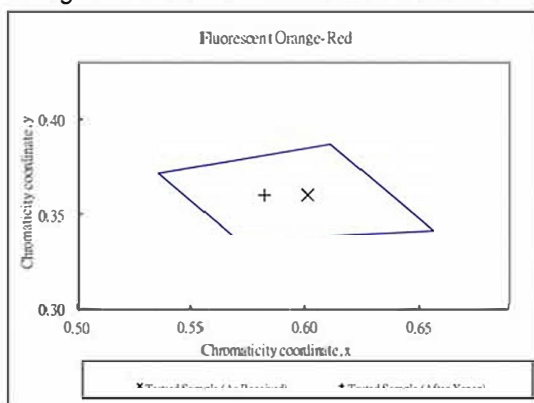
Test Results :

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 = 0.600 y = 0.364	Pass
			%Y = 49	Pass
			<i>After 40x Xenon:</i> x = 0.581 y = 0.364	Pass
			%Y = 48	Pass
			<i>After 5 Washes[#]:</i> x = 0.599 y = 0.364	Pass
			%Y = 50	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 low 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.

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Report

No.: HKSL1604042793TX

Date: Apr 20, 2016

Page 3 of 4

Color of background material and combined-performance material

Color	Chromaticity coordinates		Minimum total luminance factor
	x	y	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
Bursting Strength (Knitted) of Background Material ASTM D3787-07	7.4.1	267 N (27.2 kgf) (60 lbf)	879.1 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: 3.5 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: 3.5 Cotton: 4.5 Nylon: 3.5 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's Instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Test Report

No.: HKSL1604042793TX

Date: Apr 20, 2016

Page 4 of 4

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 = -1.6 Width = -0.8	Pass
--	-------	--	--	------

*** End of Report ***

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained herein reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.