



Test Report

No. HZSL1602010371TX

Date: Mar 09, 2016

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

The following sample s was/were submitted and identified on behalf of the client as:

- Sample Description : A nitted fabric: 100 polyester fluoesent in D-012 yellow 100 POL ESTER NITTED FA RI FL ORESENT
nitted fabric: 100 polyester fluoesent in D-013 orange 100 POL ESTER NITTED FA RI FL ORESENT
- Style No : 120g/m²
- Sample Recei ing Date : Feb 23, 2016
- Test Performing Period : Feb 23, 2016 - Mar 09, 2016
- Test Performed : Selected tests as requested by applicant against lient s performance standard.

Test Result s : Please refer to the ne t page s .

Signed for and on behalf of
SGS- ST Standards Technical
Ser ices o., Ltd. HangZhou ranch

Leon ang Account E cuted e



SGS- Standards Technical Services Co., Ltd.
Hangzhou Branch Testing Laboratory

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Test Result:

**American National Standard for High-Visibility Safety Apparel and Headwear^
ANSI/ISEA 107-2015**

Sample: A

Test/Method	Section	ANSI/ISEA 107-2015 Requirement	Test Result	Pass/ Fail/ NA
Determination of color ASTM E1164-12 Two layers of the same material	.1.1	Test specimen must fulfill the colorimetric requirements of Table 3 for background material	As submitted:	Pass
	.2.4		0.3 4	Pass
	10.2		y 0.545 105.43 After 40 Xenon: 0.3 y 0.520 93.23 After 25 washes: 0.3 5 y 0.544 106.97	Pass
Colorfastness to crocking AAT 19-2013	.2.1	Dry 3.0 Wet 3.0	Dry: 4.5 Wet: 4.5	Pass
Colorfastness to Perspiration AAT 15-2013	.2.2	Color change 4.0 Staining 3.0	Color change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass
Colorfastness to Domestic Laundry AAT 61-2013-2A 105 F modified	.2.3 Table 4	Color change 4.5 Staining 3.0	Color change: 4.5 Acetate: 4.0 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass
Colorfastness to Water AAT 107-2013	.2.3 Table 4	Color change 3.0 Staining 3.0	Color change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass
Colorfastness to Hypochlorite leaching domestic AAT 61-2013-5A	.2.3 Table 4	Fading 4.0	Color change: 4.5	Pass
Colorfastness to Hot-pressing	.2.3 Table 4	Color change 4.5 Staining 3.0	Immediate observation Dry Pressing	Pass



AAT 133-2013			change in shade:4.5 Staining on cotton: 4.5 <u>Observation after conditioning</u> Dry Pressing change in shade: 4.5 Staining on cotton: 4.5	
Colorfastness Dry cleaning AAT 132-2013	.2.3 Table 4	color change 4.0	color change: 4.5	Pass
Dimensional change Domestic AAT 135-2012 3 IIIA iii 105 degree F	.3.1	nit or coated, Non- woven L /- 7 /-5	5 th cycle Length -2.3 width -0.7	Pass
Dimensional change Drycleaning AAT 15 -2011	.3.1	nit or coated, Non- woven L /- 7 /-5	1rd cycle Length -0. width NIL	Pass
Tearing Strength Determined ASTM D37 7-07	.4.1	267 N	172. lbf 7 .5 gf 769N	Pass



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 Hangzhou Branch Testing Laboratory. 中国·浙江·杭州·滨江区滨安路1180号华业高科技产业园4号楼3-6层 邮编: 310052 t (86-571)86791199 f (86-571)87688901 e sgs.china@sgs.com

Sample:

Test/Method	Section	ANSI/ISEA 107-2015 Requirement	Test Result	Pass/ Fail/ NA
Determination of color ASTM E1164-12 Two layers of the same material	.1.1	Test specimen must fulfill the colorimetric requirements of Table 3 for background material	As submitted: 0.606 y 0.361 47.05	Pass
	.2.4		After 40 Xenon: 0.51 y 0.364 4.39	Pass
	10.2		After 25 washes: 0.607 y 0.361 4.92	Pass
Colorfastness to crocking AAT 19-2013	.2.1	Dry et 3.0 3.0	Dry: 4.5 et: 4.5	Pass
Colorfastness to Perspiration AAT 15-2013	.2.2	Color change 4.0 Staining 3.0	Color change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass
Colorfastness to Domestic Laundry AAT 61-2013-2A 105 F modified	.2.3 Table 4	Color change 4.5 Staining 3.0	Color change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.0 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass
Colorfastness to Water AAT 107-2013	.2.3 Table 4	Color change 3.0 Staining 3.0	Color change: 4.5 Acetate: 4.5 Cotton: 4.5 Nylon: 4.5 Polyester: 4.5 Acrylic: 4.5 Wool: 4.5	Pass
Colorfastness to Hypochlorite leaching domestic AAT 61-2013-5A	.2.3 Table 4	Fading 4.0	Color change: 4.5	Pass
Colorfastness to Hot-pressing AAT 133-2013	.2.3 Table 4	Color change 4.5 Staining 3.0	<u>Immediate observation</u> Dry Pressing Change in shade:4.5 Staining on cotton: 4.5 <u>Observation after conditioning</u> Dry Pressing	Pass



			change in shade: 4.5 Staining on cotton: 4.5	
Colorfastness Dry cleaning AAT 132-2013	.2.3 Table 4	color change 4.0	color change: 4.5	Pass
Dimensional change Domestic AAT 135-2012 3 IIIA iii 105 degree F	.3.1	nit or coated, Non- woven L /- 7 /-5	5th cycle Length -2.1 width -1.5	Pass
Dimensional change Drycleaning AAT 15 -2011	.3.1	nit or coated, Non- woven L /- 7 /-5	1 st cycle Length -0.9 width 0.1	Pass
Tearing Strength Unnotched ASTM D37 7-07	.4.1	267 N	141.5lbf 64.3 gf 630N	Pass

^This test was carried out by SGS S.H. Laboratory
End of Report

