



Test Report

No. SL517152362868TX

Date: Jul 05, 2017

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HENAN TIANYU GARMENT IMPORT AND EXPORT CO.,LTD
10TH FLOOR, INTERNATIONAL TRADE BUILDING PINGYUAN ROAD, HENAN, XINGXIANG CITY

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

Sample Description : WOVEN FABRIC - 65% polyester 35% cotton interwoven fluorescent-yellow for adult workwear
Manufacturer : HENAN TIANYU GARMENT IMPORT AND EXPORT CO.,LTD
Country of Destination : United Arab Emirates-Dubai

Proposed Care Instruction : 

Test Performed : Selected test(s) as requested by applicant

Sample Receiving Date : Jun 29, 2017

Testing Period : Jun 30, 2017 - Jul 05, 2017

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. For further details, please refer to the following page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co. Ltd

Hattie Chen

Hattie Chen
Account Executive

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Test Result

Colour Fastness To Washing

(ISO 105-C06:2010; Test No. A2S, Machine wash at 40 degree C with 4g/l 'ECE(B)' detergent and 1g/l Sodium perborate solution with 10 steel balls.)

After 5 washes

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	4
Cotton	4-5
Nylon	4
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Washing procedure:ISO 6330: 2012; Washing program No. 4N; Using horizontal axis, front-loading type machine: Machine wash at 40 degree C, with 2kg total dry mass (type III (100% polyester) ballast+ specimen) and 'ECE(A)' detergent+ Sodium Perborate+ TAED, tumble dry low less than 60 degree C.

Colour Fastness To Perspiration

(ISO 105-E04:2013 ; test specimen in vertical position.)

Acid

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Alkaline

Change in shade	4-5
Staining on multi-fiber stripe	
Acetate	4-5
Cotton	4-5
Nylon	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

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Test Result

High-visibility clothing – Test methods and requirements (EN ISO 20471:2013)

Sections 5.1.1 and 7.2: Colour Performance Requirements of New Background Materials

		Measured Values of Sample	Result
Chromaticity coordinates	x value	0.374	Pass
	y value	0.528	
Luminance Factor, β		0.93	Pass

Sections 5.2 and 7.2: Colour Performance Requirements of Background Materials after Xenon Test (ISO 105-B02:1994, method 3; Xenon-arc Lamp)

		Measured Values of Sample	Result
Chromaticity coordinates	x value	0.367	Pass
	y value	0.517	
Luminance Factor, β		0.92	Pass

The chromaticity shall be within one of the areas defined by coordinates in EN ISO 20471 Table 2 and the luminance factor shall comply with the corresponding minimum value.

Colour requirements for background material

Colour	Chromaticity coordinates		Minimum luminance factor β_{min}
	x	y	
Fluorescent yellow	0.387	0.610	0.70
	0.356	0.494	
	0.398	0.452	
	0.460	0.540	

This test was carried out by SGS HK textile lab.

pH Value of Aqueous Extract

Test Method: According to ISO 3071:2005; 0.1mol/l KCL extraction

	Result
pH value	6.0

Note: pH value of extraction medium 6.3
 Temperature of the extraction solution 28.1°C

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Sample Photo



*** End of Report ***

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