

**Test Report** No. SHSL1604078634TX Date: May 04, 2016 Page 1 of 6

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

: (A)Woven fabric: 100% nylon in beige for shirt Sample Description

(B)Woven fabric: 100% nylon in white for shirt

Style No. ARIZONA M/W Buyer VICSA S.A. 4SQHK2281 Order No.

Country of Destination Chile Country of Origin China

Proposed Care Instruction

Test Performed Selected test(s) as requested by applicant

Sample Receiving Date Apr 21, 2016

Testing Period Apr 28, 2016 - May 04, 2016

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.

Cathy Li

Account Executive



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Test Report No. SHSL1604078634TX Date: May 04, 2016 Page 2 of 6

## **Test Result**

## Ultraviolet Protection Factor / UPF

(AATCC 183-2014)

As Received	(A)	
	<b>Dry Evaluation</b>	Wet Evaluation
Mean Ultraviolet Protection Factor	107	95
(UPF):		
Standard Deviation :	1.3	1.4
Rated UPF:	50+	50+
Protection Category	Excellent	Excellent
Percent Transmittance, T (UV-A):	1.40	1.53
Percent Transmittance, T (UV-B):	0.88	1.00
The Percent Blocking, UV-A:	98.60	98.47
The Percent Blocking, UV-B:	99.12	99.00

Test was conducted in wavelength range: 280 - 400 nm

Instrument: UV - Vis Spectrophotometer model

No. of Scans : 6 Remarks :

- (1) Ultraviolet Protection Factor (UPF) is the ratio of the average effective ultraviolet radiation (UV-R) irradiance transmitted and calculated through air to the average effective UV-R irradiance transmitted and calculated through fabric.
- (2) The limits of the spectral range of ultraviolet radiation are not well defined and may vary according to the user. Committee E-2.12 of the International Commission on Illumination (CIE) distinguishes in the spectral range between 400 and 100 nm:

UV-A: 315 – 400 nm UV-B: 280 – 315 nm UV-R: 280 – 400 nm

- (3) This method can also be used to determine the UPF of wet and/or stretched fabrics. However, the techniques for wetting and/or stretching the specimens are not part of this method and are addressed in a separate test procedure. It must be noted that wetting and/or stretching the specimens could change the UPF properties.
- (4) Refer to ASTM D6603-11, the UV protection category is determined by the UPF values,

UPF 40 or greater Excellent UV Protection
UPF in between 25 to 39 Very Good UV Protection
UPF in between 15 to 24 Good UV Protection
UPF less than 15 Unclassification

(5) The listed protection category is for reference only; the market claims for labeling UV-Protection product shall follow "Standard Guide For Labeling UV-Protection Textiles" as stated in ASTM D6603-11



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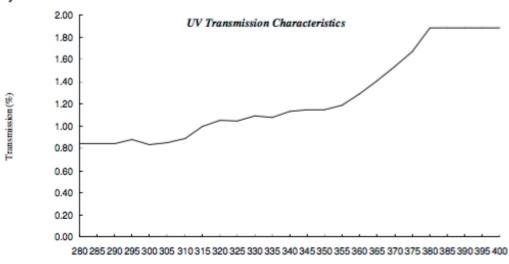
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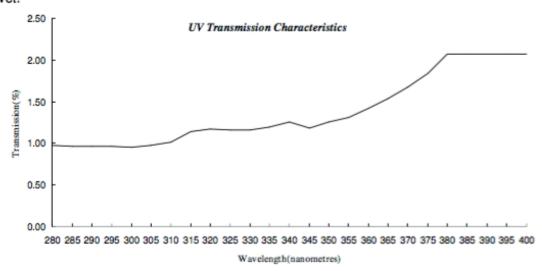
Page 3 of 6

Dry:



Wavelength(nanometres)

Wet:





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Test Report No. SHSL1604078634TX Date: May 04, 2016 Page 4 of 6

As Received (B)

	Dry Evaluation	Wet Evaluation
Mean Ultraviolet Protection Factor	192	142
(UPF):		
Standard Deviation :	32.8	2.1
Rated UPF :	50+	50+
Protection Category	Excellent	Excellent
Percent Transmittance, T (UV-A):	0.45	0.59
Percent Transmittance, T (UV-B):	0.50	0.67
The Percent Blocking, UV-A:	99.55	99.41
The Percent Blocking, UV-B:	99.50	99.33

Test was conducted in wavelength range: 280 - 400 nm

Instrument: UV - Vis Spectrophotometer model

No. of Scans : 6 Remarks :

(1) Ultraviolet Protection Factor (UPF) is the ratio of the average effective ultraviolet radiation (UV-R) irradiance transmitted and calculated through air to the average effective UV-R irradiance transmitted and calculated through fabric.

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UV-R: 280 - 400 nm

- (3) This method can also be used to determine the UPF of wet and/or stretched fabrics. However, the techniques for wetting and/or stretching the specimens are not part of this method and are addressed in a separate test procedure. It must be noted that wetting and/or stretching the specimens could change the UPF properties.
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Very Good UV Protection
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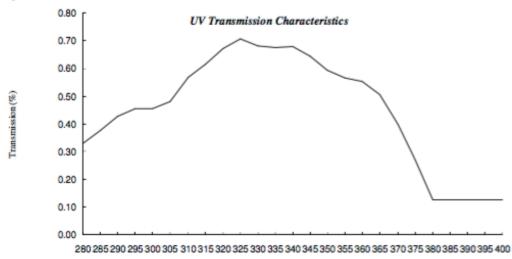
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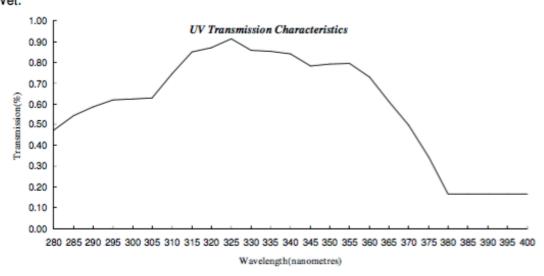
Page 5 of 6





Wavelength(nanometres)

## Wet:





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## **Test Report**

No. SHSL1604078634TX

Date: May 04, 2016

Page 6 of 6

Sample Photo



\*\*\* End of Report \*\*\*



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