

Test Report No. SL517152468788TX

Date: Jul 12, 2017

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MARITEX SPA EL SALTO #1979-RECOLETA, SANTIAGO CHILE

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

Sample Description Style No. Order No. Manufacturer Country of Destination Country of Origin Supplier		(A-B)Knitted fabric: 80% cotton 20% polyester in (A)navy (B)green POLO SHIRT 5217#-5617# MARITEX SPA Chile Chile MARITEX SPA
Proposed Care Instruction	:	-
Test Performed	:	Selected test(s) as requested by applicant
Sample Receiving Date Testing Period Test Result(s)	:	Jul 05, 2017 Jul 10, 2017 - Jul 12, 2017 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

Ultraviolet Protection Factor / UPF

(AATCC 183-2014)

As Received	()	A)
	Dry Evaluation	Wet Evaluation
Mean Ultraviolet Protection Factor	110	137
(UPF) :		
Standard Deviation :	10.4	7.8
Rated UPF :	50+	50+
Protection Category	Excellent	Excellent
Percent Transmittance, T (UV-A) :	1.06	0.91
Percent Transmittance, T (UV-B) :	0.88	0.70
The Percent Blocking, UV-A :	98.94	99.09
The Percent Blocking, UV-B :	99.12	99.30

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 UPF in between 25 to 39 UPF in between 15 to 24 UPF less than 15 Excellent UV Protection Very Good UV Protection Good UV Protection 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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As Received		(B)
	Dry Evaluation	Wet Evaluation
Mean Ultraviolet Protection Factor (UPF) :	112	129
Standard Deviation :	10.9	5.5
Rated UPF :	50+	50+
Protection Category	Excellent	Excellent
Percent Transmittance, T (UV-A) :	1.01	0.92
Percent Transmittance, T (UV-B) :	0.87	0.74
The Percent Blocking, UV-A :	98.99	99.08
The Percent Blocking, UV-B :	99.13	99.26

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

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