

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 : (A-B)Knitted garment: 100% cotton in (A)navy (B)green  
Style No. : T-SHIRT  
Order No. : 5217#-5617#  
Manufacturer : MARITEX SPA  
Country of Destination : Chile  
Country of Origin : Chile  
Supplier : MARITEX SPA

Proposed Care Instruction : -

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

Sample Receiving Date : Jun 27, 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**

**Ultraviolet Protection Factor / UPF**

(AATCC 183-2014)

As Received

(A)

	<u>Dry Evaluation</u>	<u>Wet Evaluation</u>
Mean Ultraviolet Protection Factor (UPF) :	221	261
Standard Deviation :	7.8	23.8
Rated UPF :	50+	50+
Protection Category	Excellent	Excellent
Percent Transmittance, T (UV-A) :	0.56	0.52
Percent Transmittance, T (UV-B) :	0.43	0.36
The Percent Blocking, UV-A :	99.44	99.48
The Percent Blocking, UV-B :	99.57	99.64

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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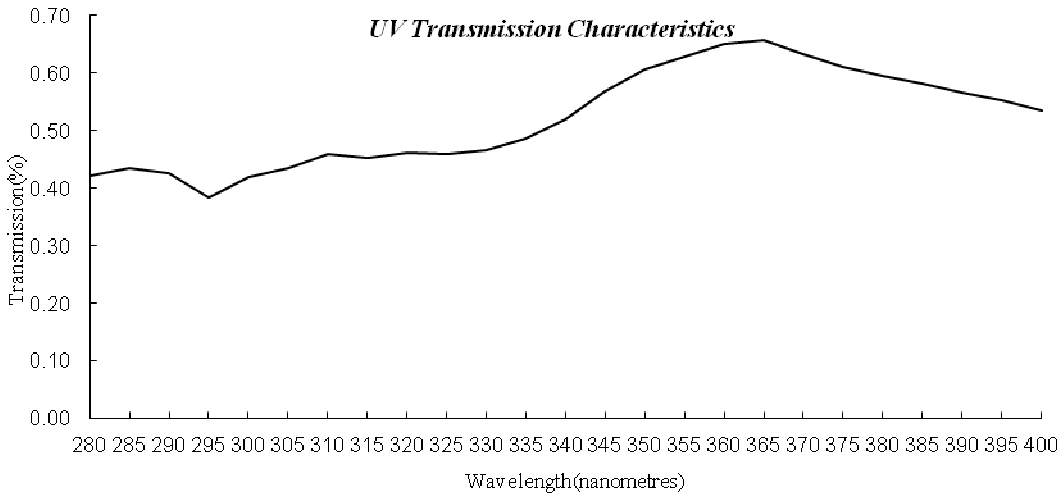
SGS-CSL Technical Services (Shanghai) Co., Ltd.  
 Testing Center

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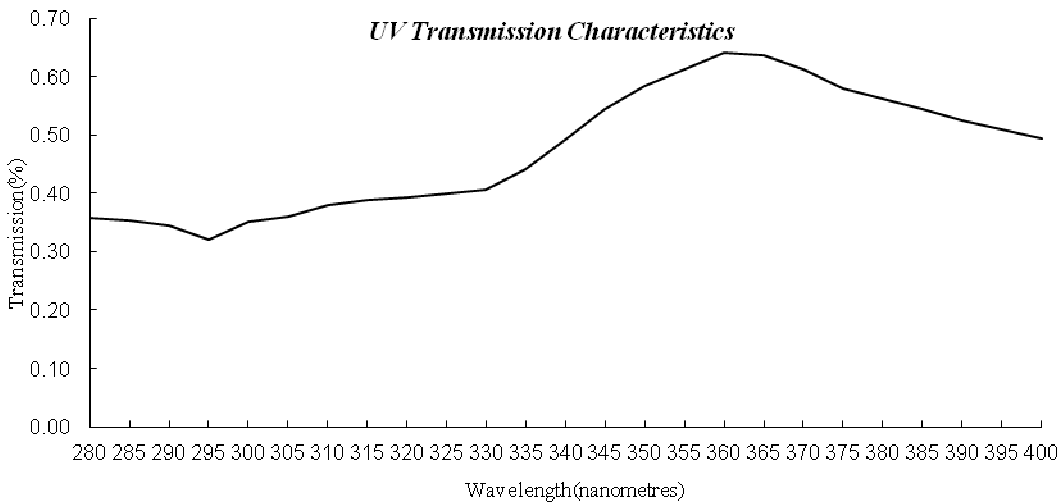
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Dry:



Wet:



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As Received

(B)

	<u>Dry Evaluation</u>	<u>Wet Evaluation</u>
Mean Ultraviolet Protection Factor (UPF) :	363	619
Standard Deviation :	31.2	36.2
Rated UPF :	50+	50+
Protection Category	Excellent	Excellent
Percent Transmittance, T (UV-A) :	0.33	0.21
Percent Transmittance, T (UV-B) :	0.26	0.14
The Percent Blocking, UV-A :	99.67	99.79
The Percent Blocking, UV-B :	99.74	99.86

Test was conducted in wavelength range : 280 – 400 nm

Instrument : UV – Vis Spectrophotometer model

No. of Scans : 6

Remarks :

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- (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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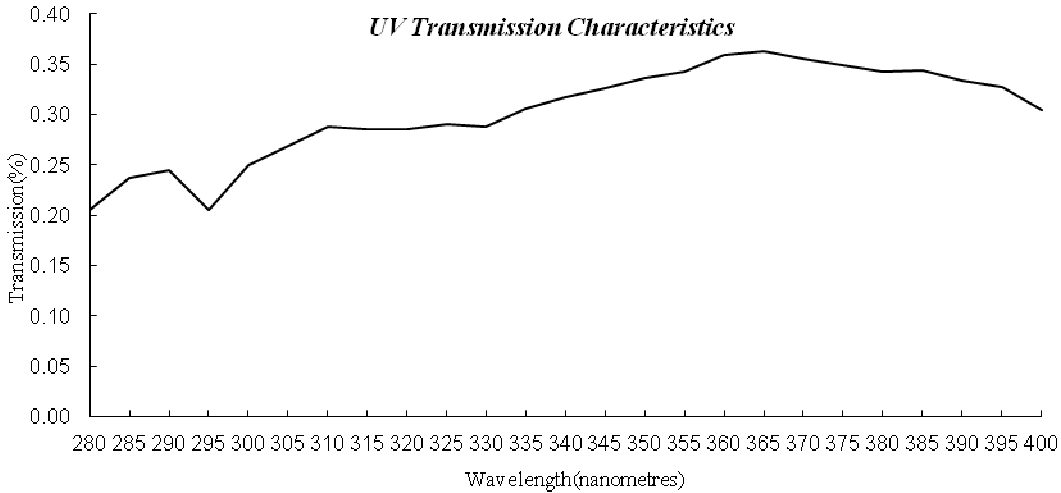
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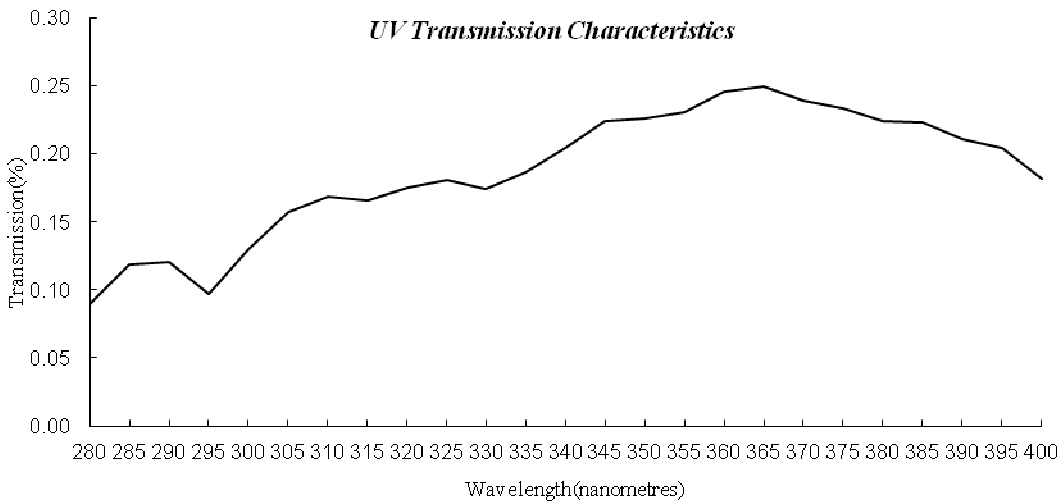
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Dry:



Wet:



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



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