

Test Report

No: TX80249 /2010 /PL

Date: Aug. 13, 2010

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Four Elements Energy Biotechnology Co., Ltd.
12F-7, No. 31-1, Sec. 2, Hsin-Sheng N. Road,
Taipei, Taiwan

The following sample was submitted and identified by the client as:

Sample Description : One sample of knitted fabric stretch circular hydrophilic jacquard in light pink

Fiber Content : 63% Talent yarn 22% Polyester 15% Spandex

Fabric Weight : 220-225gm/yd (155gsm)

Construction : 75D/72F DTY+75D/36F DTY+40D

End Use : Sports Wear

Style No. : TA-020-1

Manufacturer/Vendor : Four Elements Energy Biotechnology Co., Ltd.

Country of Origin : Taiwan

Sample Receiving Date : Aug. 05, 2010

Test Performance Period : Aug. 05 to Aug. 13, 2010

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

Test Results : For further details, please refer to the following page(s).

* Residual sample returned to applicant.

Signed for and on behalf of
SGS Taiwan Ltd.


Cheng Yuch-er, Ellen
Supervisor

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Test Results:

Transmittance or Blocking of Erythemally Weighted Ultraviolet Radiation through Fabrics (AATCC 183-2000)

As received

Ultraviolet Protection Factor (UPF):	39
Standard Deviation :	3
Rated UPF :	30
Protection Category :	Very good
Percent Transmittance, T (UV-A) :	8.50
Percent Transmittance, T (UV-B) :	1.63
The Percent Blocking, UV-A :	91.50
The Percent Blocking, UV-B :	98.37

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, The UV protection category is determined the UPF values,
UPF 40 or greater Excellent UV protection
UPF in between 25 to 39 Very Good UV Protection
UPF is 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 D6603-00.

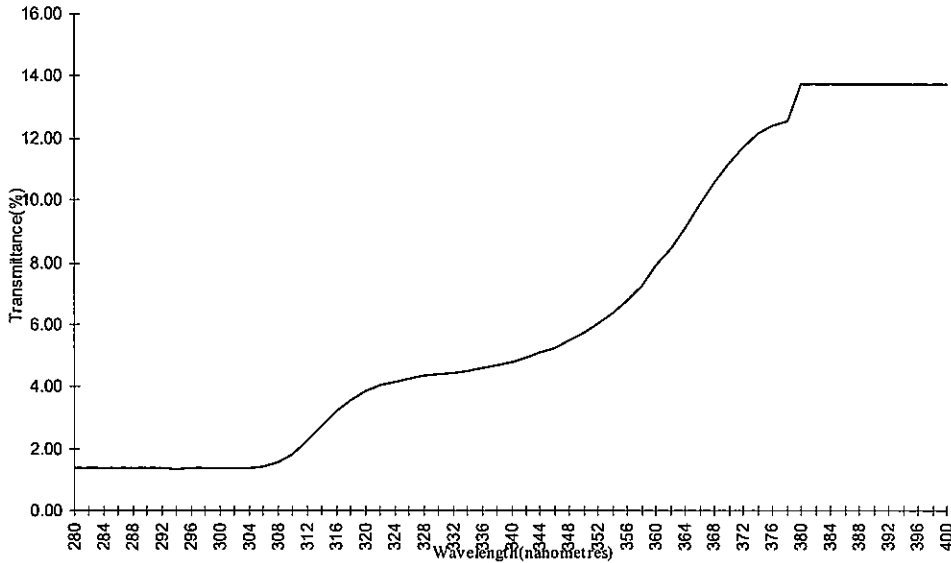
Note: Graph Appendix is attached.

The test was subcontracted to other SGS Laboratory.

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UV Transmittance Through Fabrics



*** End of Report ***

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