



Test Report

No. GZSL1606065743TX

Date: Jun 24, 2016

Page 1 of 9

GUANGZHOU YAKEDA OUTDOORS TRAVEL PRODUCT CO,LTD
YANGER VILLAGE,SHILING TOWN,HUADU DISTRICT,GUANGZHOU ,CHINA

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

Sample Description : THREE SAMPLES OF WEBBING IN (A)TAN (B)KHAKI (C)GREY

End uses : USED ON BACK PACKS

Composition : POLYESTER

Country Of Origin : CHINA

Country Of Destination : USA

Sample Receiving Date : Jun 17, 2016

Test Performing Period : Jun 17, 2016 - Jun 24, 2016

Test Performed : Selected tests as requested by applicant against Client's performance standard.

Test Result(s) : Please refer to the next page(s).

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch


Lily Wang
Account Manager

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GZSL 2303097

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Test Result:

Requirement

Color Fastness To Crocking
(AATCC 8-2013)

| | (A) | (B) | (C) | |
|--------------|-----|-----|-----|---|
| Dry staining | 4.5 | 4.5 | 4.5 | / |
| Wet staining | 4.5 | 4.5 | 4.5 | / |

Color Fastness To Light
(AATCC TM 16.3 -2014; Option 3; Xenon-Arc Lamp.)

After 48'AATCC' Fading Unit

| | (A) | (B) | (C) | |
|-----------------|-----|-----|-----|---|
| Change in shade | 3.5 | 4.5 | 4.0 | / |

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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Guangzhou Branch / Wear Laboratory

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The below test was conducted in SGS SH lab:

Ultraviolet Protection Factor / UPF
(AATCC 183-2014)

As Received

| | Dry Evaluation | A | Wet Evaluation |
|--------------------------------------------|----------------|---|----------------|
| Mean Ultraviolet Protection Factor (UPF) : | 616 | | 577 |
| Standard Deviation : | 64.4 | | 41.1 |
| Rated UPF : | 50+ | | 50+ |
| Protection Category | Excellent | | Excellent |
| Percent Transmittance, T (UV-A) : | 0.17 | | 0.17 |
| Percent Transmittance, T (UV-B) : | 0.16 | | 0.16 |
| The Percent Blocking, UV-A : | 99.83 | | 99.83 |
| The Percent Blocking, UV-B : | 99.84 | | 99.84 |

Test was conducted in wavelength range : 280 – 400 nm

Instrument : UV – Vis Spectrophotometer model

No. of Scans : 6

Remarks :

- 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.
- 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
- 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.
- 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
- 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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Guangzhou Branch: Guangzhou Economic & Technological Development District, Science City, Kailu Road 198

198 Kaifu Road, Science & Technology Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t (86-20) 82155555 f (86-20) 82075169 www.sgs.com.cn
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Test Report

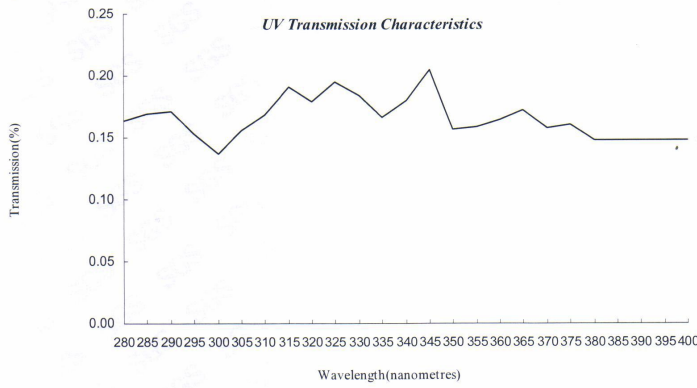
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Date: Jun 24, 2016

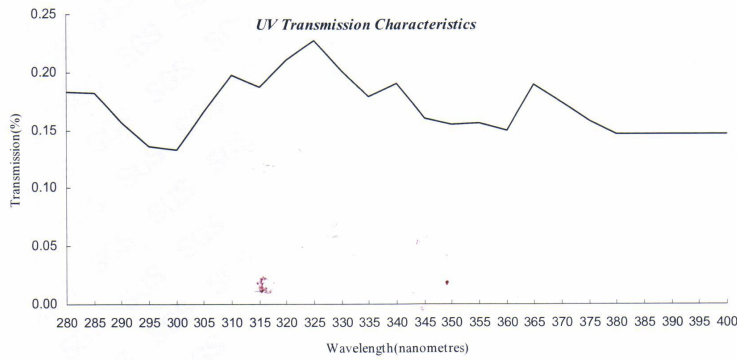
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Dry:



Wet:



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Guangzhou Branch

198 Kezhu Road, Sientech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663
中国·广州·经济技术开发区科学城科珠路198号

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As Received

B

| | Dry Evaluation | Wet Evaluation |
|--------------------------------------------|----------------|----------------|
| Mean Ultraviolet Protection Factor (UPF) : | 669 | 620 |
| Standard Deviation : | 31.1 | 35.7 |
| Rated UPF : | 50+ | 50+ |
| Protection Category | Excellent | Excellent |
| Percent Transmittance, T (UV-A) : | 0.16 | 0.17 |
| Percent Transmittance, T (UV-B) : | 0.15 | 0.16 |
| The Percent Blocking, UV-A : | 99.84 | 99.83 |
| The Percent Blocking, UV-B : | 99.85 | 99.84 |

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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GZSL 2303101

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 Guangzhou Branch / 标准技术服务有限公司广州实验室

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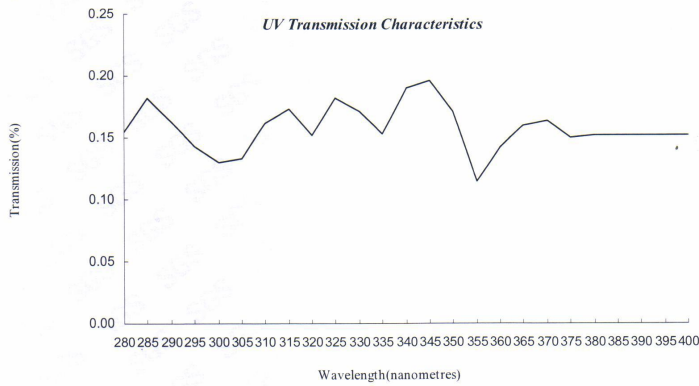
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Date: Jun 24, 2016

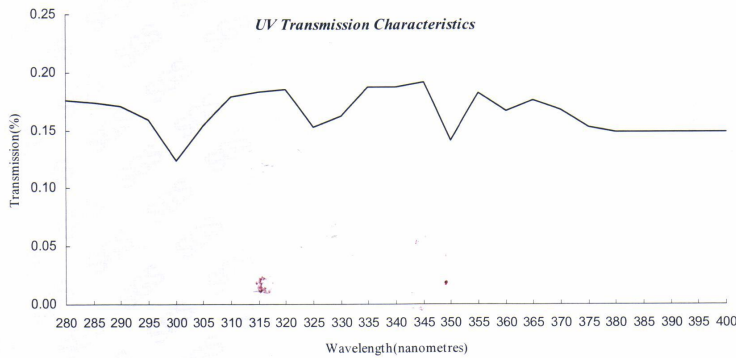
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Dry:



Wet:



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GZSL 2303102

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Guangzhou Branch, Wear Laboratory

198 Kexu Road, Science Park Guangzhou Economic & Technology Development District, Guangzhou, China 510663
中国·广州·经济技术开发区科学城科珠路198号

t (86-20) 82155555 f (86-20) 82075169 www.sgs.com
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As Received

C

| | Dry Evaluation | Wet Evaluation |
|--------------------------------------------|----------------|----------------|
| Mean Ultraviolet Protection Factor (UPF) : | 673 | 574 |
| Standard Deviation : | 35.4 | 11.9 |
| Rated UPF : | 50+ | 50+ |
| Protection Category | Excellent | Excellent |
| Percent Transmittance, T (UV-A) : | 0.16 | 0.17 |
| Percent Transmittance, T (UV-B) : | 0.15 | 0.16 |
| The Percent Blocking, UV-A : | 99.84 | 99.83 |
| The Percent Blocking, UV-B : | 99.85 | 99.84 |

Test was conducted in wavelength range : 280 – 400 nm

Instrument : UV – Vis Spectrophotometer model

No. of Scans : 6

Remarks :

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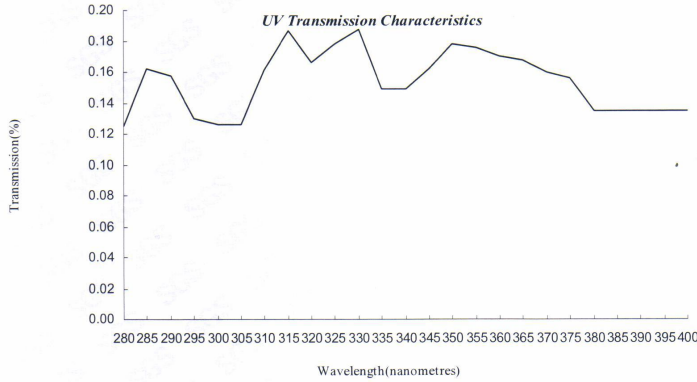
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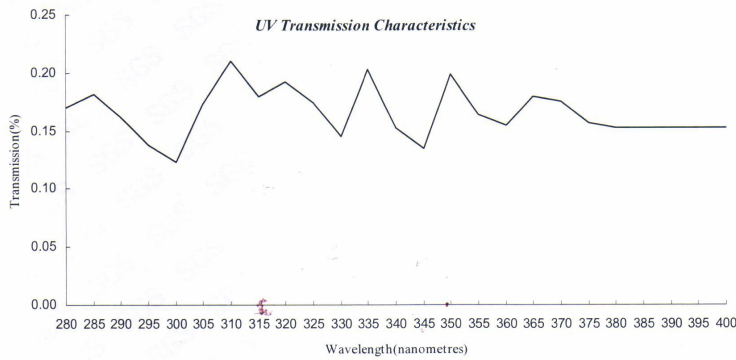
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Dry:



Wet:



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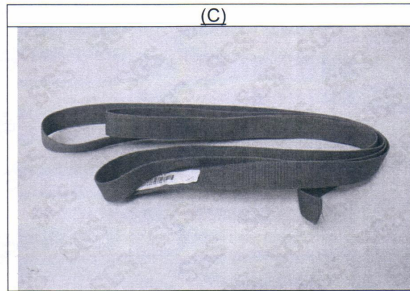
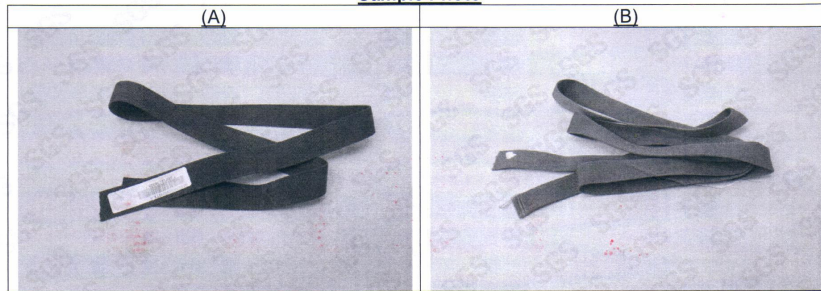
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Sample Photo



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Sample Card

Report No.: C251160605743 Tx



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SGS-CSTC Standards Technical Service Co., Ltd.

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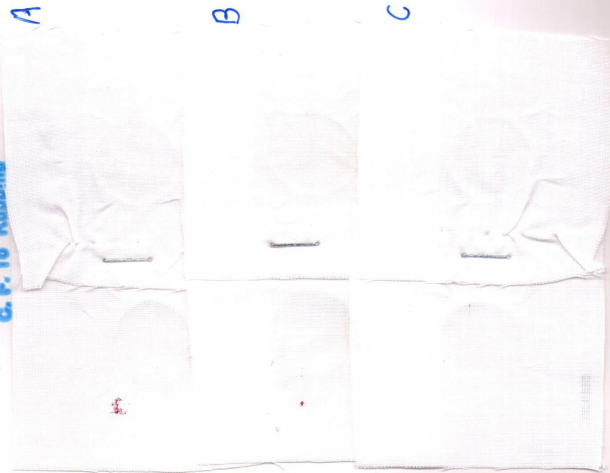
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TESTED SAMPLE CARD

REPORT NO.: G25/160605/43 To

G. F. To Rubbing



C. F. To Light

