



Test Report

No. GZ1000015803TX

Date: Apr 22, 2010

Page 1 of 6

XIAMEN GREEN MOUNTAIN IMP&EXP CO., LTD
2/F, FUJIAN GUARANTY BLDG, 137 HUALIN ROAD, FUZHOU, FUJIAN, CHINA

The following sample was submitted and identified on behalf of the client as:

One sample of woven softshell cloth cutting in black for upper main material.

Sample Receiving Date : Apr 07, 2010

Test Performing Period : Apr 07 ~ 22, 2010

Test Performed : Selected tests as requested by applicant.

* * * *

Test Results : Please refer to the next pages.

Signed for and on behalf of
SGS-CSTC Ltd.

Echo Zhou
Section Head

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Test Report – Picture Page

Sample



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Test Report

No. GZ1000015803TX

Date: Apr 22, 2010

Page 3 of 6

Test Results:

Fabric Weight Per Unit Area

(ASTM D3776/D3776M-2009a; Option C)

(g/m ²)	140
(oz/yd ²)	4.12

Stretch Properties of Woven Fabrics from Stretch Yarns

(ASTM D3107-2003)

(A) Stretch and growth percentage

	Warp	Weft
(I) Stretch at 4 lb load after 30 min (%)	15.3	19.2
(II) Immediate fabric growth after 30 sec relaxation (%)	2.0	5.0

(B) Fabric growth after stretched to specified extension (28.2 / 29.1cm)

(I) After 30 sec relaxation (%)	1.4	4.2
(II) After 30 min relaxation (%)	0.8	2.2
(III) After 1 hour relaxation (%)	0.6	1.8

(C) Fabric recovery after growth to specified extension (28.2 / 29.1cm)

(I) After 30 sec relaxation (%)	89.2	74.3
(II) After 30 min relaxation (%)	93.8	86.5
(III) After 1 hour relaxation (%)	95.4	89.0

Bench mark = 25cm

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Test Report

No. GZ1000015803TX

Date: Apr 22, 2010

Page 4 of 6

Water Repellency

(AATCC 22-2005: Spray Test-Tested under controlled condition, water temperature: 27 ± 1 °C)

<u>As received</u>	<u>(Reading 1)</u>	<u>(Reading 2)</u>	<u>(Reading 3)</u>
Rating	85	85	85

Nomenclature for rating:

- 100 - No sticking or wetting of specimen face
- 90 - Slight random sticking or wetting of specimen face
- 80 - Wetting of specimen face at spray points
- 70 - Partial wetting of specimen face beyond the spray points
- 50 - Completer wetting of the entire specimen face beyond the spray points
- 0 - Complete wetting of the entire face of the specimen

Color Fastness To Water

(TM335:1994)

Change in shade	4.5
Staining on multi-fiber stripe	
Acetate	3.5
Cotton	4.5
Nylon	3.5
Polyester	4.0
Acrylic	4.5
Wool	4.0

Color Fastness To Perspiration

(AATCC 15-2009)

<u>Acidic</u>	
Change in shade	4.5
Staining on multi-fiber stripe	
Acetate	3.5
Cotton	4.5
Nylon	3.5
Polyester	4.0
Acrylic	4.5
Wool	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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Test Report

No. GZ1000015803TX

Date: Apr 22, 2010

Page 5 of 6

Color Fastness To Crocking

(TM167:2001)

Dry staining	3.5
Wet staining	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.

Tensile Strength

(TM29:1992)

Tighter directions	333.3N
Stretcher directions	280.1N

Elongation:

Tighter directions	44%
Stretcher directions	42%

Tearing Strength – Trouser Method

(TM30:1995.)

Tighter direction	22.3N
Stretcher direction	20.5N

Abrasion Resistance

(TM31:2003)

Dry After 44800 cycles
Moderate wear was observed

Wet After 6400 cycles
Moderate wear was observed

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No. GZ1000015803TX

Date: Apr 22, 2010

Page 6 of 6

The below test was conducted in HK Lab:

Air Permeability Of Textile Fabrics

(ASTM D737-2004(2008);Textest FX3300 Air Permeability Tester III)

Test pressure : 125 pa
Test area : 38 sq.cm.

Individual reading (Unit: cfm)

1.	34.0
2.	34.1
3.	34.2
4.	34.2
5.	33.9
6.	35.0
7.	33.8
8.	35.1
9.	34.3
10.	34.1

Commentary	: -
Average	: 34.27
Minimum	: 33.8
Maximum	: 35.1
CV%	: 1.3

*** End of Report ***

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