



Test Report

No. HZ708013/TX

Date: Jul 5, 2007

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HANGZHOU TEXURE INDUSTRIES CORPORATION
ROOM C706-707, XIHU GUOJI KEJI DASHA, 391 WEN ER ROAD, HANGZHOU, 310012, CHINA

The Following sample(s) was/were submitted and identified by the client as

Sample Description : Five samples of woven shell:100% polyester; knitted lining: 100% polyester stadium blanket with sewn in hood, nylon front with fleece lining, with bag attached in (A) red/ black (B) navy/ grey (C) royal blue/ black (D) black/ black (E) orange/ black

Buyer : Dream World Design

PO#/ REF# : PO. 8210, S/ C# DS0107008

Country of Origin : China

Proposed Care Instruction : Machine wash cool, launder dark and bright colors separately, do not bleach, line dry, do not dry clean, if decorated, do not iron.

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

* * * * *

Sample Receiving Date : JUL. 03, 2007

Test Performing Date : JUL. 04, 2007

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

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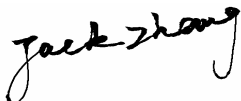
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Conclusion	:	(A)	(B)	(C)	(D)	(E)
Washing Shrinkage		-	-	-	M	-
Appearance after Laundering		-	-	-	M	-
Washing Fastness		M	M	M	M	M
Water Fastness		M	M	M	M	M
Chlorine Bleach Fastness		M	F	M	M	M
Non-Chlorine Bleach Fastness		M	M	M	M	M
Crocking Fastness		M	M	M	M	M
Light Fastness		M	F	M	M	M
Tensile Strength		-	-	-	M	-
Tearing Strength		-	-	-	M	-
Seam Strength		-	-	-	M	-
Bursting strength		-	-	-	*	-
Seam Stitches Per Inch		-	-	-	F	-
Pilling Resistance		-	-	-	M	-
Fabric weight		-	-	-	*	-
Threads per Inch		-	-	-	*	-
Fiber content		-	-	-	M	-

Remark: M=Meet Dream World Design's Requirement
 F=Below Dream World Design's Requirement
 *=No Specified Requirement

Signed for and on behalf of
 SGS-CSTC Ltd.



Jack Zhang
 (Account Executive)

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Test Result

Dimensional Stability to Washing (AATCC 150-2003; Test No. (1) IIB; Machine wash at 85 degree F with 4 lb loading, normal cycle & line dry). Requirement

Shell

Sample (D)	Original (inch)	After 3 Washes (inch)	Shrinkage (%)	
Lengthwise (%)	79.375	79.125	-0.3	3%
Widthwise (%)	57.750	57.500	-0.4	

Lining

Sample (D)	Original (inch)	After 3 Washes (inch)	Shrinkage (%)	
Lengthwise (%)	79.375	79.250	-0.2	3%
Widthwise (%)	58.000	57.750	-0.4	

Remarks: (+) Means Extension (-) Means Shrinkage

Appearance after Laundering (In house method)

Washing procedure (AATCC 150-2003; Test No. (1) IIB; Machine wash at 85 degree F with 4 lb loading, normal cycle & line dry).

After 3 washes

Satisfactory:

- | | |
|------------------|---------------------|
| 1. Colour change | : 4.5 |
| 2. Seam | : No obvious change |
| 3. Label | : No obvious change |
| 4. Zipper | : No obvious change |
| 5. Snap | : No obvious change |
| 6. Toggle | : No obvious change |
| 7. Eyelet | : No obvious change |
| 8. Rope | : No obvious change |

General appearance of washed sample (D) is satisfactory.

Color Fastness to Washing (Ref. AATCC 61-2003; Test No. 2A, 45 min. mechanical wash at 85 degree F with 0.15% 1993 AATCC Standard Reference Detergent WOB and 50 steel balls)

	(A)	(B)	(C)	(D)	(E)	
Change in shade	4.5	4.5	4.5	4.5	4.5	4.0
Staining on multi-fiber stripe						
Acetate	4.0	4.5	4.0	4.0	4.0	3.0
Cotton	4.5	4.5	4.5	4.0	4.5	
Nylon	4.0	4.0	4.0	3.5	4.0	
Polyester	4.0	4.5	4.0	4.0	4.0	
Acrylic	4.5	4.5	4.5	4.5	4.5	
Wool	4.5	4.5	4.0	4.5	4.0	

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	(A)	(B)	(C)	(D)	(E)	Requirement
<u>Color Fastness to Water</u> (AATCC 107-2002)						
Change in shade	4.5	4.5	4.5	4.5	4.5	4.0
Staining on multi-fiber stripe						
Acetate	4.0	4.0	4.0	4.0	4.0	-
Cotton	4.0	4.5	4.5	4.0	4.5	
Nylon	4.0	4.0	4.0	4.0	4.0	
Polyester	4.5	4.5	4.5	4.5	4.5	
Acrylic	4.5	4.5	4.5	4.5	4.5	
Wool	4.5	4.0	4.5	4.5	4.5	

Color Fastness to Chlorine Bleach (ATTCC TS-001)

Change in shade	4.5	3.0	4.5	4.5	4.5	4.0
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Color Fastness to Non-chlorine Bleach (ATTCC TS-001)

Change in shade	4.5	4.5	4.5	4.5	4.5	4.0
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Color Fastness to Crocking (AATCC 8-2005)

Dry staining	4.5	4.5	4.5	4.5	4.5	4.0
Wet staining	4.5	4.5	4.5	4.5	4.5	3.0

Color Fastness to Light (AATCC 16-2004; Options 3; use water cooled Xenon arc lamp)

After 20 AFU

Class	4.0	3.5	4.0	4.0	4.0	4.0
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Remarks: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good.

Tensile Strength (ASTM D5034-2001; CRE - 1" Grab) (D)-shell

Lengthwise (lb)	168.0	25
Widthwise (lb)	179.6	25

Tearing Strength (ASTM D1424-2004; Elmendorf)

Lengthwise yarns torn (lb)	10.5	1.5
Widthwise yarns torn (lb)	12.1	1.5

Note: Lengthwise test - test in which the Lengthwise yarns are torn.

Widthwise test - test in which the Widthwise yarns are torn.

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Seam Performance (D)-shell Requirement

Strength (ASTM D1683-2004)

Given seam

Lengthwise seam (lb)	73.0	30
Widthwise seam (lb)	75.7	30

Bursting Strength (ASTM D3786-1987; Mullen Bursting Tester) (D)-lining

(kPa)	901	-
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Seam Stitches Per Inch (by visual method) (D)

(Stitches/ inch)	8.7	7±1
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Pilling Resistance (ASTM D 4970-2005; Martindale Tester) (D)-Shell (D)-lining

After 100 movements

Rating	5.0	5.0	5.0
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Remarks: Pilling Rating

5. No change
4. Slight surface fuzzing and / or partially formed pills
3. Moderate surface fuzzing and / or moderate pilling. Pills of varying size and density partially covering the specimen surface
2. Distinct surface fuzzing and / or distinct pilling. Pills of varying size and density covering a large proportion of the specimen surface.
1. Dense surface fuzzing and / or severe pilling. Pills of varying size and density covering the whole of the specimen surface

Fabric Weight per Unit Area (ASTM D3776-2002; option C) (D)-Shell (D)-lining

(oz/yd ²)	3.7	7.6	-
(g/m ²)	124	259	

Threads per Inch (ASTM D3775-2003) (D)-shell

Lengthwise/inch	58	-
Widthwise/inch	62	

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	(D)	<u>Requirement</u>
<u>Fibre Content</u> (AATCC 20-2005)		
<u>Shell</u> Polyester (%)	100	100%
<u>Lining</u> Polyester (%)	100	100%

End of Report

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