

SHANGHAI XM GROUP LTD  
 ROOM 2403, ZHONGYI INTERNATIONAL BUSINESS BUILDING NO.1833, NORTH ZHONGSHAN ROAD,  
 PUTUO DISTRICT, SHANGHAI

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

Sample Description : Alba (MULTI-TEX) 97% polyester 3% spandex TPU membrane 300 +/-10GSM  
 in navy

Proposed Care Instruction : 

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

Sample Receiving Date : Sep 02, 2016  
 Testing Period : Sep 02, 2016 - Sep 12, 2016

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**

**Colour Fastness To Washing**

(ISO 105-C06:2010; Test No. G2S, Machine wash at 60°C with 4g/l 'ECE(B)' detergent and 1g/l Sodium Perborate Solution with 25 steel balls.)

Change in shade	4-5
Staining on multi-fiber stripe	
Cotton	4
Polyester	3
Acrylic	4-5
Wool	4

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

**Colour Fastness To Rubbing**

(ISO 105-X12:2016; Size of rubbing finger: 16mm diameter.)

Dry staining	4-5
Wet staining	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

**Colour Fastness To Light**

(ISO 105-B02:2014; use Xenon arc lamp, exposure cycle A1, no flip-flop mode was used)

Comparison upto blue wool reference 4	
Grade (Bluewool Std)	3-4

**Tensile Strength**

(ISO 13934-1:2013; CRE-50mm strip)

Length(N)	760
Width(N)	490

**Tearing Strength**

(ISO 13937-2:2000; )

length yarns torn (N)	38
width yarns torn (N)	25



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**Pilling Resistance**

(ISO 12945-2:2000; Martindale Abrasion & Pilling Tester, Total Load Applied 415g.)

As received

After 125 rubs

Rating 4-5

After 500 rubs

Rating 4-5

After 1000 rubs

Rating 4-5

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
- 2 Distinct fuzzing and/or distinct pilling. Pills of varying size and density covering a large proportion of the specimen surface
- 1 Dense surface and/or severe pilling. Pills of varying size and density covering the whole of the specimen surface

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



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