

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

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

Sample Description : (A) Woven fabric (UNITEC-240 WR (Fluorcarbon C6)
2/1 TWILL 150cm Fluorocarbon C6 WR 10-15times(WR 50)

Sample Color : (A) Dark grey

Proposed Care Instruction :



Sample Receiving Date : Jun 30, 2020

Testing Period : Jun 30, 2020 - Jul 06, 2020

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).

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

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd Testing Center

Hattie Chen (Account Executive)



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Colour Fastness To Dry Cleaning

(ISO 105-D01:2010;)

	Unit	(A)
-		
Change in Shade	-	4-5
Staining On Multi-fibre Stripe		
Acetate	-	4-5
Cotton	-	4-5
Polyamide	-	4-5
Polyester	-	4-5
Acrylic	-	4-5
Wool	-	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Colour Fastness To Rubbing

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

As Received

	Unit	(A)
-		
Dry Staining	-	4-5
Wet Staining	-	4

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

Colour Fastness To Washing

(ISO 105-C06:2010; Test No.:C2S, Machine wash at 60°C with 4g/L ECE (B) and 1g/L Sodium Perborate with 25 Steel Balls)

	Unit	(A)
-		
Change in Shade	-	4-5
Staining On Multi-fibre Stripe		
Acetate	-	4
Cotton	-	4-5
Polyamide	-	4
Polyester	-	4-5
Acrylic	-	4-5
Wool	-	4-5

Remark: Grey Scale Rating is based on the 5-step scale of 1 to 5, where 1 is worst and 5 is best.

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Dimensional Stability To Washing

(ISO 3759:2011/ISO 5077:2007/ISO 6330:2012; Using horizontal axis, front-loading type machine; Procedure No.6N, Machine Wash At 60 °C; with 2kg total dry mass (Type III (100% Polyester) Ballast+ Specimen), 'ECE(A)' detergent+ Sodium Perborate+ TAED, Tumble Dry Low, Less Than 60 °C)

After 1 Wash

	Unit	(A)
Lengthwise	%	-2.3
Widthwise	%	-1.1

Remark: (+)Means Growth; (-)Means Shrinkage

Abrasion Resistance

(BS EN ISO 12947-2:2016; Martindale Abrasion & Pilling Tester, Pressure: 12kPa)

	Unit	(A)
The quoted result	Rubs	73000

Tensile Strength

(ISO 13934-1:2013; Strip method)

	Unit	(A)
Warp/Length	N	2000
Weft/Width	N	1200

Water Repellency(Spray Test)

(EN ISO 4920:2012; Spray Test - Tested under controlled condition, water temperature: 20±2 °C)

(A)

	No. 1	No. 2	No. 3
<u>As Received</u>			
Rating(No Unit)	5	5	5
<u>After 10 Washes</u>			
Rating(No Unit)	2-3	2	2

DIN EN ISO/BS EN ISO/ EN ISO/ ISO & AATCC/ PHX

Remarks: Nomenclature for rating:

- 100 (ISO 5) No sticking or wetting of the specimen face
- 90 (ISO 4) Slight random sticking or wetting of the specimen face
- 80 (ISO 3) Wetting of the specimen face at spray points
- 70 (ISO 2) Partial wetting of the specimen face beyond the spray points
- 50 (ISO 1) Complete wetting of the entire specimen face beyond the spray points
- 0 (ISO 0) Complete wetting of entire face

washing procedure: ISO 6330:2012: Using horizontal axis, front-loading type machine; Procedure No.6N, Machine Wash At 60 °C; with 2kg total dry mass (Type III (100% Polyester) Ballast) and 'ECE(A)' detergent+ Sodium Perborate+ TAED, Tumble Dry Low, Less Than 60 °C,

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pH Value

(ISO 3071:2020; 0.1mol/L KCL extraction)

-	Unit	(A)
pH Value	-	6.0

Note:

- 1) pH value of extraction medium: 5.81
- 2) Temperature of the extraction solution: 20.3°C

End of Report



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