

REPORT NUMBER:

SHAT06543177



TEST REPORT

Number : SHAT06543177

Applicant : HWEAR LIMITED
RM.1503, NO.1000, HONGSONG EAST RD.,
MINHANG DISTICT, SHANGHAI, CHINA
Attn : JASON SUN

Date : Jun 28, 2020

Overall Comment	
PASS	
FAIL	X
DATA	

Sample Description As Declared :

No. Of Sample : One
Fibre Content : 100% Lyocell
Material : HW160606-201YD Rigid Denim Fabric, 209 gsm
Finishing : -
End Uses : Women's Dress
Colour : Indigo
Style No. : RD#209626
Order No./PO No. : -
Buyer's Name : -
Manufacturer's Name : -
Test Stage : Full Test

Applicant's Provided Care Instruction/Label :

Machine Wash Cold

Tumble Dry Low

Dry Clean

Lab Recommended : -
Care Instructions :

Date Received/Date Test Started : June 19, 2020

Prepared And Checked By:
For Intertek Testing Services Ltd., Shanghai



Jennifer Ren
General Manager

Intertek Testing Services Ltd., Shanghai

2/F, Building No.4, Shanghai Comalong Technology Service Park,
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Attention is drawn to the terms and conditions printed overleaf

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Test Items	Pass	Fail	Data	Comment
Fibre content	X			The Sample Conforms To The Declared Fibre Content As Follows "100% Lyocell".
pH value		X		See Result
Shrinkage (wash)		X		See Result
% Skew	X			
Color Fastness To Crocking After 1 Prepared Wash		X		See Result
Color Fastness To Ozone After 1 Prepared Wash	X			
Fabric Weight After 3 Prepared Wash	X			
Prototype Seam Slippage After Wash	X			
Tensile Strength After 3 Prepared Wash	X			
Tear Strength After 3 Prepared Wash		X		See Result
Abrasion Resistance			*	
Pilling Resistance	X			
Fabric Construction			*	
Yarn Size/Yarn Structure			*	

Remark : (-) not applicable (*) no comment/no submitted information

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Tests Conducted (As Requested By The Applicant)

1 Test Method : AATCC 20

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

Fiber Content (Qualitative)	-	Lyocell	
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2 Test Method : ISO 3071

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

pH Value	5.5-7.0	7.9	
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3 Test Method : AATCC 135

Dimensional Stability – Wash – Machine Wash At 140°F, Normal Cycle With Dummy Load To 1.8 kg, Tumble Dry Medium

Textile Test	Requirement	Test Result			
		No. Of Tests		Average	

Sample

Fabric – 3 Washes (Hot)	+1.0%/-4.0%				
Warp		-5.6%	-6.1%	-5.6%	-5.8%
Weft		-5.0%	-5.0%	-5.0%	-5.0%

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Tests Conducted (As Requested By The Applicant)

4 Test Method : -

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

<u>% Skew</u>			
Original		2.5%	3.7%
After Wash		3.3%	2.5%
Skew Movement (%)	+/-3.0%	+0.8%	-1.2%

5 Test Method : ISO 105 X12

Washing Condition : 1 Cycle Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result
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Sample

Color Fastness To Crocking After 1 Prepared Wash	Dry : Class :3.5	<u>Lengthwise</u> 4.0 <u>Widthwise</u> 4.0
	Wet : Class :2.0	<u>Lengthwise</u> 1.5 <u>Widthwise</u> 1.5

6 Test Method : ISO 105 X12

Washing Condition : 1 Cycle Of Machine Wash At 80°F, Normal Cycle, Tumble Dry - Delicate

Textile Test	Requirement	Test Result
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Sample

Color Fastness To Crocking After 1 Prepared Wash After Wash	Dry : Class : -	<u>Lengthwise</u> 4.0 <u>Widthwise</u> 4.0
	Wet : Class : -	<u>Lengthwise</u> 1.5 <u>Widthwise</u> 1.5

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7 Test Method : AATCC 109-2016, 2 cycles

Washing Condition Before Test : 1 Cycle Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result
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Sample

Color Fastness To Ozone After 1 Prepared Wash	Color Change Class : 3.5	4.0
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8 Test Method : ASTM D3776

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

Fabric Weight After 3 Prepared Wash	≥10 oz/yd ² : ±3.0%	220.1 g/m ²	218.9 g/m ²	222.5 g/m ²	220.5 g/m ²
	<10 oz/yd ² : ±5.0%	(6.5 oz/yd ²)	(6.5 oz/yd ²)	(6.6 oz/yd ²)	(6.5 oz/yd ²)

9 Test Method : ASTM D434

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

Prototype Seam Slippage After Wash <u>S.O. At 1/4 Inch</u> //To Warp	30 lbs.	<1/4 inch	<1/4 inch	<1/4 inch	<1/4 inch
//To Weft	30 lbs.	<1/4 inch	<1/4 inch	<1/4 inch	<1/4 inch

Seam Strength After Wash //To Warp	35 lbs.	61.6 lbf (FTS)	66.9 lbf (FTS)	60.9 lbf (FTS)	63.1 lbf (FTS)
//To Weft	35 lbs.	83.0 lbf (FTS)	73.9 lbf (FTS)	77.3 lbf (FTS)	78.1 lbf (FTS)

Fabric Weight after 3HL: 6.5 oz/sq.yd. (For Ref. Only)

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10 Test Method : ASTM D5034

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

Tensile Strength After 3 Prepared Wash Warp	110 lbs.	159.3 lbf	176.4 lbf	175.2 lbf	170.3 lbf
Weft	70 lbs.	100.6 lbf	109.8 lbf	108.6 lbf	106.3 lbf

Remark: Fabric Weight after 3HL: 6.5 oz/sq.yd. (For Ref. Only)

11 Test Method : ASTM D2261

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

Tear Strength After 3 Prepared Wash Warp	7.0 lbs.	5.7 lbf	5.5 lbf	5.6 lbf
Weft	5.5 lbs.	6.4 lbf	5.5 lbf	6.0 lbf

Remark: Fabric Weight after 3HL: 6.5 oz/sq.yd. (For Ref. Only)

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12 Test Method: ISO 12947-2:2016

Method: Martindale Abrasion & Pilling Tester, 9 kPa Total Weight

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample

Textile Test	Requirement	No. Of Tests	Average
Abrasion Resistance – 20,000 Cycles After 3 Prepared Wash <u>Resistance: Face Side</u>	DATA only No fabric rupture	Over 20000 Cycles	Over 20000 Cycles
Significant Appearance Change Was Found At Rubs		-	-
Type Of Fabric:		Woven Fabric (Without Pile)	Woven Fabric (Without Pile)
Type Of End-Point:		-	-

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13 Test Method : ASTM D3514

Washing Condition : 3 Cycles Of Machine Wash At 140°F, Normal Cycle, Tumble Dry - Cotton/Sturdy

Textile Test	Requirement	Test Result		
		No. Of Tests		Average
Sample				
Pilling Resistance-Face	3.0	4.0	4.0	4.0
Pilling Resistance-Back	3.0	3.5	3.5	3.5

14 Test Method : ASTM D3775

Textile Test	Requirement	Test Result		
		No. Of Tests		Average
Sample				
Fabric Construction	$\geq 10 \text{ oz./yd}^2 : \pm 3.0\%$			
Ends Per Inch	$< 10 \text{ oz./yd}^2 : \pm 5.0\%$			
Pick Per Inch		114 70	114 71	114 70

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15 Test Method : ASTM D1059/ASTM D1244

Textile Test	Requirement	Test Result	
		No. Of Tests	Average

Sample				
Yarn Size/Yarn Structure Ends	±5.0%			
		13.1 texX2 (45.1's/2)	13.4 texX2 (44.1's/2)	13.2 texX2 (44.7's/2)
Picks		25.6 tex (23.1's)	25.2 tex (23.4's)	25.4 tex (23.2's)

End of Report

Remark: This statement of conformity is only based on the actual measured test result by the laboratory, without taking the influence of uncertainty into account.

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