

AB-0690-T

TR1806915

10-20

TEST REPORT

Job No./Report No TR1806915

Date: 20 October 2020

Page 1 of 17

APPLICANT: SADIRLAR ALLIANCE TEKSTİL GRUP
LTD ŞTİ
CİHANGİR MH DOLUM TESİSLERİ YOLU
SHT KMD UĞUR HANCI SK NO:9 ZEMİN
KAT AVCILAR
02124225600

DATE: 20 October 2020

REPORT#: 1806915

DATE IN: 05 October 2020

RESUBMIT DATE: 13 October 20

DATE OUT: 20 October 2020

RETEST: Not Provided

PREVIOUS REPORT#: Not Provided

ATTN: Uğur Çataltaş

BUYER:	H&M HENNES & MAURITZ		
BRAND:	Not Provided		
H&M PRODUCT GROUP:	Not Provided		
H&M PRODUCTION OFFICE:	Not Provided		
H&M ORDER NO:	Not Provided		
OPD:	Not Provided		SEASON: Not Provided
STAGE:	<input type="checkbox"/>	P-S (Production Sample)	<input type="checkbox"/> C-S (Counter Sample)
	<input type="checkbox"/>	D-S (Development Sample)	<input type="checkbox"/> R-S (Random Sample)
	<input type="checkbox"/>	Q-S (Quotation Sample)	<input type="checkbox"/> Bulk Material
	<input checked="" type="checkbox"/>	Others	
SAMPLE DESCRIPTION:	A: FABRIC SAMPLE (WHITE-30/1 PENYE LYC SUPREM) B: FABRIC SAMPLE (BLUE-30/1 PENYE LYC SUPREM)		
H&M PRODUCT END USE:	Not Provided		
H&M PRODUCT NAME:	Not Provided		
COLOR NAME:	Not Provided		COLOR CODE: Not Provided
FIBER CONTENT:	95% COTTON, 5% ELASTANE		
CATEGORY:	<input type="checkbox"/>	Adult (>14 year-old)	<input type="checkbox"/> Children(0~3 year-old) <input type="checkbox"/> Children(4~14 year-old)
SUPPLIER:	Not Provided		
TIER:	<input type="checkbox"/>	Tier 1	<input checked="" type="checkbox"/> Tier 2 <input type="checkbox"/> Not Provided
COUNTRY OF ORIGIN:	Not Provided		COUNTRY OF DESTINATION: Not Provided

CARE INSTRUCTIONS:



TEST RESULTS : Please refer to the next page(s).

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 2 of 17

SUMMARY OF TEST RESULTS

Selected test(s) as requested by client against Client's performance standard.

TEST PROPERTY	REMARK	
CHEMICAL TESTS	<u>Sample A</u>	<u>Sample B</u>
pH Value in Textile	Fail	Pass
Total Heavy Metal	Pass	Pass
Formaldehyde	Pass	Pass
Lead in Accessible Substrate Materials (Non-Metallic)	Pass	Pass
Azo Dyes (Direct reduction)	Pass	Pass
PHYSICAL TESTS	<u>Sample A</u>	<u>Sample B</u>
Colour Fastness to Light	Pass	Pass
CF Laundering	Pass	Pass
Appearance After Household Laundering	Pass	Pass
DS Household Laundering	Pass	Pass
CF Rubbing	Pass	Pass
CF Perspiration	Pass	Pass
CF Water	Pass	Pass
Bursting Strength	Pass	Pass
Pilling Resistance	Fail	Fail
Colour Fastness to Saliva	See Results	See Results

Notes:	Conclusions on meet/fail are based on the test result from the actual sampling of the received sample(s).
	Residual sample can be returned to client if requested.

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 3 of 17

The test results relate to the tested items only.

Test reports without SGS seal and authorised signatures are invalid.

Issued in Istanbul

Signed for and on behalf of

SGS Supervise Gözetme Etüd Kontrol Servisleri A.Ş.

Ayşegül Kaya
Customer Services SupervisorAyşe Gönen
Customer Services Technical Assistant Manager

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 4 of 17

Component List / List of Materials for Chemical Test

Sample No.	Material No.	Component	Material	Colour	Fiber Type*
A	A1	Continuous print	Textile	Black	Type A
A	A2	Main	Textile	White	Type A
A	A3	Continuous print with main	Textile	Black, white	Type A
A	A4	Continuous print with main (against each other)	Textile	Black, white	Type A
B	B1	Continuous print	Textile	Dark grey	Type A
B	B2	Continuous print	Textile	Grey	Type A
B	B3	Continuous print	Textile	Yellow	Type A
B	B4	Continuous print	Textile	Black, grey	Type A
B	B5	Main	Textile	Blue	Type A
B	B6	Continuous printed area	Textile	Dark grey, grey, yellow, black	Type A
B	B7	Continuous printed area with main	Textile	Dark grey, grey, yellow, black, blue	Type A
B	B8	Continuous printed area with main	Textile	Blue, yellow	Type A
B	B9	Continuous printed area with main	Textile	Dark grey, grey	Type A

*This fiber type identification is for the selection of azo dye testing procedure (i.e. ISO 14362-1:2017)

Note:

Type A=Textile contains natural fibers only and/or regenerated fibers exclude the group of acetate.

Type B=Textile contains polyester fibers only

Type C=Textile contains man-made fibers and/or man-made blended fibers (except polyester fibers)

N/A: Not Applicable

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 5 of 17

Azo Dyes and Arylamine Salts (Direct Reduction)¹

Test Method: Textile: With reference to ISO 14362-1:2017. Analysis was conducted with GC-MS/HPLC-DAD.
Determination of 4-aminoazobenzene (CAS No.:60-09-3) - ISO 14362-3:2017; with the use of GC-MS/ HPLC-DAD.

	Result (mg/kg)			
	A1	B1+B2+B3	B4	B5
	n.d.	n.d.	n.d.	n.d.
Conclusion	PASS	PASS	PASS	PASS

Note: n.d. = not detected
mg/kg = ppm
* = Exceed the limit
Detection Limit = 5 mg/kg (for individual compound)
Requirement: 20 mg/kg (for individual compound)

Remark: The list of amines in azo dyes is summarized in table of Appendix

Total Lead Content (Non-Jewelry) – Non-metal¹

Test Method: With reference to CPSC-CH-E1002-08.3. Analysis was conducted by ICP-OES or ICP-MS.

		Result				
	CAS-No.	A3	B1	B2	B3	B4
Lead (Pb)	7439-92-1	n.d.	n.d.	n.d.	n.d.	n.d.
Conclusion	--	PASS	PASS	PASS	PASS	PASS

Note: n.d.= Not detected
mg/kg = ppm
Reporting limit = 10 mg/kg

Requirement 90 mg/kg

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 6 of 17

Total Heavy Metal Content¹

Test Method: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result	
		A1+A2	B1+B3
Arsenic (As)	7440-38-2	n.d.	n.d.
Cadmium (Cd)	7440-43-9	n.d.	n.d.
Mercury (Hg)	7439-97-6	n.d.	n.d.
Conclusion	--	PASS	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
Reporting limit = 10 mg/kg (As); 5 mg/kg (Cd); 0.1 mg/kg (Hg)

Requirement
Arsenic 100 mg/kg
Cadmium 40 mg/kg
Mercury 0.5 mg/kg

Total Heavy Metal Content¹

Test Method: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result	
		B2	B4
Arsenic (As)	7440-38-2	n.d.	n.d.
Cadmium (Cd)	7440-43-9	n.d.	n.d.
Mercury (Hg)	7439-97-6	n.d.	n.d.
Conclusion	--	PASS	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
Reporting limit = 10 mg/kg (As); 5 mg/kg (Cd); 0.1 mg/kg (Hg)

Requirement
Arsenic 100 mg/kg
Cadmium 40 mg/kg
Mercury 0.5 mg/kg

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 7 of 17

Total Heavy Metal Content¹

Test Method: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result
		B5
Arsenic (As)	7440-38-2	n.d.
Cadmium (Cd)	7440-43-9	n.d.
Mercury (Hg)	7439-97-6	n.d.
Conclusion	--	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
Reporting limit = 10 mg/kg (As); 5 mg/kg (Cd); 0.1 mg/kg (Hg)

Requirement	
Arsenic	100 mg/kg
Cadmium	40 mg/kg
Mercury	0.5 mg/kg

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 8 of 17

Total Chromium Content¹

Test Method: Textile material except polyamide & polyester: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result			
		A1+A2	B1+B3	B2	B4
Chromium (Cr)	7440-47-3	n.d.	3,9 mg/kg	n.d.	n.d.
Conclusion	--	PASS	PASS	PASS	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
Reporting limit = 1.0 mg/kg

Requirement**100 mg/kg****Total Chromium Content¹**

Test Method: Textile material except polyamide & polyester: With reference to DIN EN 16711-1:2016. Analysis was conducted by ICP-OES or ICP-MS.

	CAS-No.	Result
		B5
Chromium (Cr)	7440-47-3	n.d.
Conclusion	--	PASS

Note: n.d.= Not detected
mg/kg = ppm
* = Exceeds the limit
Reporting limit = 1.0 mg/kg

Requirement**100 mg/kg**

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 9 of 17

Formaldehyde¹

Test Method:

With reference to ISO 14184-1:2011 (Water Extraction Method) - Analysis by UV-VIS Spectrophotometer

	CAS-No.	Result			
		A1	A2	B5	B6
Formaldehyde	50-00-0	10 mg/kg	n.d.	11 mg/kg	27 mg/kg
Conclusion	--	Pass	Pass	Pass	Pass

Note:

n.d. = Not detected

mg/kg = ppm

* = exceeds the limit

= Exceed the relevant requirement of 2 / 3 composite mix

Detection limit = 5 mg/kg

Requirement:

75 mg/kg

pH Value in Textile¹

Test Method:

With reference to ISO 3071:2020 - Analysis by pH meter

	CAS-No.	Result			
		B7	A3		
pH value	--	6,8	7,9		
Conclusion	--	Pass	Fail		

Note:

Extraction medium

KCl solution

pH value of extraction medium

5.0 – 7.5

Temperature of the extraction solution

22 ± 2 °C

Requirement:

4.0-7.5

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 10 of 17

Bursting Strength(ISO 13938-2:1999, 30.5mm diameter (area: 7.3 cm²))

(kPa)	<u>A3</u>	<u>B7</u>	<u>Requirement</u>
Data 1	>500	>500	250 kPa Min.
Data 2	>500	>500	
Data 3	>500	>500	
Data 4	>500	>500	
Data 5	>500	>500	
Average	>500	>500	

Pilling Resistance¹

(ISO 12945-1:2000; tumbling in ICI Pilling Tester for 14400 revolutions)

	<u>A3</u>	<u>Requirement</u>
<u>As received</u>		
Rating	2-3 (P)	Grade 3 min.

Remarks : Pilling Rating in according to appropriate EMPA (K3)

- 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 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.

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Job No./Report No TR1806915

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Page 11 of 17

Pilling Resistance¹

(ISO 12945-1:2000; tumbling in ICI Pilling Tester for 14400 revolutions)

	<u>B7</u>	<u>Requirement</u>
As received		
Rating	2-3 (P)	Grade 3 min.

Remarks : Pilling Rating in according to appropriate EMPA (K3)

- 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 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.

Colour Fastness to Perspiration¹

(ISO 105 E04:2013)

Acidic

	<u>A3</u>	<u>A4</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>Requirement</u>
Change in shade	4-5	4-5	4-5	4-5	4-5	Grade 3 min.
Self staining	4-5	4-5	4-5	4-5	4-5	Grade 4-5 min.
Staining on multifibre stripe						Grade 3 min.
Cotton	4-5	-	-	4-5	4-5	
Nylon	4-5	-	-	4-5	4-5	
Polyester	4-5	-	-	4-5	4-5	
Acrylic	4-5	-	-	4-5	4-5	
Wool	4-5	-	-	4-5	4-5	

Alkaline

	<u>A3</u>	<u>A4</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>Requirement</u>
Change in shade	4-5	4-5	4-5	4-5	4-5	Grade 3 min.
Self staining	4-5	4-5	4-5	4-5	4-5	Grade 4-5 min.
Staining on multifibre stripe						Grade 3 min.
Cotton	4-5	-	-	4-5	4-5	
Nylon	4-5	-	-	4-5	4-5	
Polyester	4-5	-	-	4-5	4-5	
Acrylic	4-5	-	-	4-5	4-5	
Wool	4-5	-	-	4-5	4-5	

Remark: Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 12 of 17

Colour Fastness to Water¹
(ISO 105 E01:2013)

	<u>A3</u>	<u>A4</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>Requirement</u>
Change in shade	4-5	4-5	4-5	4-5	4-5	Grade 4 min.
Self staining	4-5	4-5	4-5	4-5	4-5	Grade 4-5 min.
Staining on multifibre stripe						Grade 3-4 min.
Cotton	4-5	-	-	4-5	4-5	
Nylon	4-5	-	-	4-5	4-5	
Polyester	4-5	-	-	4-5	4-5	
Acrylic	4-5	-	-	4-5	4-5	
Wool	4-5	-	-	4-5	4-5	

Remark: Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

Colour Fastness to Dry Rubbing¹
(ISO 105-X12:2016)

	<u>A3</u>		<u>Requirements</u>
	Before Wash	After 1 Wash	
Staining from face side	4	4-5	3-4
Staining from reverse side	4-5	4-5	

Remark: Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

Colour Fastness to Dry Rubbing¹
(ISO 105-X12:2016)

	<u>B7</u>		<u>Requirements</u>
	Before Wash	After 1 Wash	
Staining from face side	4	4-5	3-4
Staining from reverse side	4	4-5	

Remark: Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 13 of 17

Colour Fastness to Saliva

(GB/T 18886-2016)

	<u>A3</u>	<u>A4</u>	<u>B7</u>	<u>B8</u>	<u>B9</u>	<u>Requirement</u>
Change in shade	4-5	4-5	4-5	4-5	4-5	No Requirement
Self staining	4-5	4-5	4-5	4-5	4-5	
Staining on multifibre stripe						
Cotton	4-5	-	-	4-5	4-5	
Nylon	4-5	-	-	4-5	4-5	
Polyester	4-5	-	-	4-5	4-5	
Acrylic	4-5	-	-	4-5	4-5	
Wool	4-5	-	-	4-5	4-5	

Remark: Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

Colour Fastness to Artificial Light

(ISO 105-B02:2013 Method 2, Xenon Arc-lamp)

	<u>A3</u>	<u>B1</u>	<u>B8</u>		<u>Requirements</u>
At Standard 4					
Grade (BWS)	4	4	4		3

Remarks: Blue Wool Standard Grade is based on the 8-step scale of 1 to 8, where Grade1 is bad and Grade 8 is good.
 Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 14 of 17

Colour Fastness to Household Laundering

(H&M TM CF:03 ver. 2.0, washing with H&M TM LA:01 ver. 2.0 per submitted care)

	<u>A3</u>	<u>B7</u>		<u>Requirements</u>
Colour change after 1 st wash	4	4		Grade 4 min.
Colour change after 5 st wash	4	4		Grade 4 min.
Self-staining after 1 st wash	4-5	4-5		Grade 4-5 min.
Self-staining after 5 st wash	4-5	4-5		Grade 4-5 min.
Staining on multifibre stripe				
Cotton	4-5	4-5		Grade 3-4 min
Nylon	4-5	4-5		
Polyester	4-5	4-5		
Acrylic	4-5	4-5		
Wool	4-5	4-5		

Remark: Grey Scale Rating is based on a 5-step scale of 1 to 5, where Grade 1 is bad and Grade 5 is good.

Appearance After Household Laundering

(HM TM LA:02, ver 2.0)

Washing procedure: HM TM LA:01, ver 2.0, per submitted care instruction

(A) Observations after 1st Wash

	<u>A3</u>	<u>Requirement</u>
1. Shape	No change	No major change
2. Seam	N/A	
3. Trims	N/A	
4. Printing	The grey print removed after washing slightly	
5. Surface	No change	
6. Others	N/A	

(A) Observations after 5st Wash

	<u>A3</u>	<u>Requirement</u>
1. Shape	No change	No major change
2. Seam	N/A	
3. Trims	N/A	
4. Printing	The grey print removed after washing slightly	
5. Surface	No change	
6. Others	N/A	

General appearance of washed sample is satisfactory.

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 15 of 17

Appearance After Household Laundering

(HM TM LA:02, ver 2.0)

Washing procedure: HM TM LA:01, ver 2.0, per submitted care instruction				
(A) <u>Observations after 1st Wash</u>				
		<u>B7</u>	<u>Requirement</u>	
1.	Shape	No change	No major change	
2.	Seam	N/A		
3.	Trims	N/A		
4.	Printing	The all colour print removed after washing slightly		
5.	Surface	No change		
6.	Others	N/A		
(A) <u>Observations after 5st Wash</u>				
		<u>B7</u>	<u>Requirement</u>	
1.	Shape	No change	No major change	
2.	Seam	N/A		
3.	Trims	N/A		
4.	Printing	The all colour print removed after washing slightly		
5.	Surface	No change		
6.	Others	N/A		

General appearance of washed sample is satisfactory.

Dimensional Stability to Household Laundering

(HM TM LA:03, ver 2.0)

Washing procedure: HM TM LA:01, ver 2.0, per submitted care instruction					
<u>Length</u> <u>A3</u>	Original (cm)	After 1 st Wash	Difference (cm)	Dimensional change after 1 st wash (%)	<u>Requirement</u>
Length-1	35,0	34,5	-0,5	-1,8	Length: ±5%
Length-2	35,0	34,3	-0,7		
Length-3	35,0	34,3	-0,7		
<u>Width</u>					
Width-1	35,0	34,5	-0,5	-1,8	Width: ±5%
Width-2	35,0	34,3	-0,7		
Width-3	35,0	34,3	-0,7		

Remarks : (+) Means extension
(-) Means shrinkage

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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 16 of 17

Dimensional Stability to Household Laundering
(HM TM LA:03, ver 2.0)

Washing procedure: HM TM LA:01, ver 2.0, per submitted care instruction					
<u>Length</u> <u>A3</u>	Original (cm)	After 5 st Wash	Difference (cm)	Dimensional change after 5 st wash (%)	<u>Requirement</u>
Length-1	35,0	33,5	-1,5	-4,3	Length: $\pm 5\%$
Length-2	35,0	33,5	-1,5		
Length-3	35,0	33,5	-1,5		
<u>Width</u>					
Width-1	35,0	34,0	-1,0	-2,9	Width: $\pm 5\%$
Width-2	35,0	34,0	-1,0		
Width-3	35,0	34,0	-1,0		

Remarks : (+) Means extension
(-) Means shrinkage

Dimensional Stability to Household Laundering
(HM TM LA:03, ver 2.0)

Washing procedure: HM TM LA:01, ver 2.0, per submitted care instruction					
<u>Length</u> <u>B7</u>	Original (cm)	After 1 st Wash	Difference (cm)	Dimensional change after 1 st wash (%)	<u>Requirement</u>
Length-1	35,0	33,8	-1,2	-2,3	Length: $\pm 5\%$
Length-2	35,0	34,5	-0,5		
Length-3	35,0	34,3	-0,7		
<u>Width</u>					
Width-1	35,0	34,5	-0,5	-1,3	Width: $\pm 5\%$
Width-2	35,0	34,8	-0,2		
Width-3	35,0	34,3	-0,7		

Remarks : (+) Means extension
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TEST REPORT

Job No./Report No TR1806915

Date:20 October 2020

Page 17 of 17

Dimensional Stability to Household Laundering
(HM TM LA:03, ver 2.0)

Washing procedure: HM TM LA:01, ver 2.0, per submitted care instruction

<u>Length</u> <u>B7</u>	Original (cm)	After 5 st Wash	Difference (cm)	Dimensional change after 5 st wash (%)	<u>Requirement</u>
Length-1	35,0	33,5	-1,5	-4,3	Length: $\pm 5\%$
Length-2	35,0	33,5	-1,5		
Length-3	35,0	33,5	-1,5		
<u>Width</u>					
Width-1	35,0	34,5	-0,5	-2,4	Width: $\pm 5\%$
Width-2	35,0	34,0	-1,0		
Width-3	35,0	34,0	-1,0		

Remarks : (+) Means extension
(-) Means shrinkage



* * *

End of Test Report

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