

# THE CHAPMAN GROUP OF COMPANIES



**BRISBANE  
MOSS**  
1858

M Chapman & Sons Textiles Ltd  
Bridgeroyd Works  
Halifax Road  
Eastwood  
West Yorkshire  
England  
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Technical Document		Article-	Hardy		Release Date-		01 October 2025
Description-		Sanded Twill			Composition-		100% Cotton
Applications-		Apparel					
Weight (g/m2)		285			UNI 5114		
Weight Linear (g/m)		416					
Warp Yarn per Inch		112			UNI EN 1049/2		
Weft Yarn per Inch		60					
Warp Yarn Count		20s			ISO 7211/5		
Weft Yarn Count		10s					
Minimum Usable Width		146cm			UNI EN 1773		
Customs Tariff Code (HS)		52093100					
County of Origin		Turkey					
Yarn Origin		Varies per Batch					
Weaving Origin		Turkey					
Dyeing/Finishing Origin		Turkey					
Sample/Bulk Leadtime (Weeks)		Stock Supported					
Manufacturing Features-							
Piece Dye		Jig Dyeing Method		Reactive Dyestuffs			
Care Instructions-							UNI EN ISO 3758
		<div><div></div><div></div><div></div><div></div><div></div></div>					
Dimensional Stability-							
Domestic Washing		Warp	+/- 3%		ISO 6330:2021		
		Weft	+/- 3%				
Steam Ironing		Warp	+/- 3%		DIN 53894-2		
		Weft	+/- 3%				
Dry Cleaning		Warp	+/- 3%		UNI EN ISO 3175-2		
		Weft	+/- 3%				
Physical Features-							
Tensile Strength		Warp	640 N		UNI EN ISO 13934-2		
		Weft	488 N				
Tear Strength		Warp	17 N		UNI EN ISO 13937-2		
		Weft	21 N				
Seam Slippage (6mm)		Warp	> 20kg		UNI EN ISO 13936-1		
		Weft	> 20kg				
Abrasion Resistance		Face	Grade 3-4 @ 5000 Rubs		UNI EN ISO 12947-2		
Martindale		Face	Breakdown >20,000 Rubs				
Pilling (2000 Revolutions)		Face	Grade 4		UNI EN ISO 12945-2		
Maximum Weft Skew			3%				
Stretch and Recovery at 30N Load		Extension	N/A		UNI EN 14704-1		
		Residual	N/A				



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Colour Fastness-									
		Grade	Change in Colour	Dark Colours					
				Cross Staining					
				Acetate	Cotton	Polyamide	Polyester	Acrylic	Wool
Dry Cleaning	UNI EN ISO 105-D01		4	4	4	4	4	4	4
Dry Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4	4
Wet Ironing	UNI EN ISO 105-X11		4	4	4	4	4	4	4
Acid Pers	UNI EN ISO 105-E04		4	4	4	4	4	4	4
Alkaline Pers	UNI EN ISO 105-E04		4	4	4	4	4	4	4
Water	UNI EN ISO 105-E01		4	4	4	4	4	4	4
Washing	UNI EN ISO 105-C06		4	4	4	4	4	4	4
Dry Rubbing	UNI EN ISO 105-X12				4				
Wet Rubbing	UNI EN ISO 105-X12				2				
Light	UNI EN ISO 105-B02	3-4							
		Grade	Change in Colour	Light Colours					
				Cross Staining					
				Acetate	Cotton	Polyamide	Polyester	Acrylic	Wool
Dry Cleaning	UNI EN ISO 105-D01		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Dry Ironing	UNI EN ISO 105-X11		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Wet Ironing	UNI EN ISO 105-X11		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Acid Pers	UNI EN ISO 105-E04		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Alkaline Pers	UNI EN ISO 105-E04		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Water	UNI EN ISO 105-E01		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Washing	UNI EN ISO 105-C06		4-5	4-5	4-5	4-5	4-5	4-5	4-5
Dry Rubbing	UNI EN ISO 105-X12				4-5				
Wet Rubbing	UNI EN ISO 105-X12				4				
Light	UNI EN ISO 105-B02	3-4							
Chemical, Ecotoxicological & Flammability -									
pH-value Water Extract			6.3				UNI EN ISO 3071		
Flammability			Class 1				16 CFR 1610		
Formaldehyde			< 10 mg/kg				UNI EN ISO 14184/1		
Cancer-causing Aromatic Amines			N/D				DIN EN ISO 14362/1		
REACH Compliant			Yes				Reg.(UE) 1907/2006		
Standard(s)-									
Compliant with the National Standard of the People's Republic of China							GB18401-2010		
Better Cotton Available							1030682-1		
Okeo-Tex Standard 100 Certified							11-52140 Shirley		

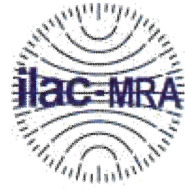






**BV CPS TEST LABORATUVARLARI LTD. STI.  
BUREAU VERITAS CONSUMER PRODUCTS  
SERVICES**

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Test  
TS EN ISO/IEC 17025  
AB-0505-T

AB-0505-T

72252540368

09-25

## TEST REPORT

**LAB LOCATION: TURKEY**

**SERVICE TYPE: Regular**

**LAB NUMBER: (7225)254-0368**

**THE DATE OF RECEIPT OF TEST ITEM: September 11, 2025**

**START DATE FOR TESTING: September 11, 2025**

**DATE END OF TEST: September 15, 2025**

**NUMBER OF WORKING DAYS: 3.0**

**CUSTOMER NAME /  
ADDRESS  
CONTACT NAME**

: M CHAPMAN&SONS LTD  
Address: Chapman Works, Manchester Road, Dunnockshaw, Burnley,  
BB121 5PW.)  
(Attn: Paige Newham-Foulds)

**BUYER**

: /

**SUPPLIER REFERENCE**

: Style Number: /  
PO Number: 13587-5  
Unique Product Code: 2603

**SAMPLE DESCRIPTION**

: Woven Fabric Samples (Hardy Sanded Twill)  
(Claimed Fiber Content: 100% Cotton)  
(Claimed Fabric Weight: /)

**COLOUR**

: Dark Navy

**SUBMITTED CARE  
INSTRUCTION**



**REASON FOR REVISION**

: /



**Ayşegül Karayılan**  
Client Team Lead

**Hasan Altıngül**  
Deputy General Manager Operation  
(16/09/2025)

**Date Out**  
(16/09/2025)

**C/N/ ET/SD**

BV CPS Test Laboratuvarları Ltd. Sti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports. This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from the date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Testing reports without signature are not valid. BV CPS Test Laboratories is not responsible for deviations for the accuracy of the information provided by the customer that may affect the validity of the test results. Test results given in this test report represent only the sample(s) delivered to the laboratory, as sent to BV CPS Test Laboratories by the client/vendor via courier, cargo and/or manual delivery. No sampling is performed by BV CPS Test Laboratories.

### SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA
Dimensional Stability To Washing *			X
Dimensional Stability to Wira Steam			X
Dimensional Stability Dry Cleaning*			X
Colorfastness To Domestic And Commercial Laundering*			X
Colourfastness To Water*			X
Colourfastness To Perspiration*			X
Colourfastness To Drycleaning *			X
Colourfastness To Light*			X
Colorfastness To Rubbing*			X
Tear Properties Of Fabrics: Ballistic Pendulum Method (Elmendorf)*			X
Tensile Properties Of Fabrics: Grab Method *			X
Slippage Resistance Of Yarns At Seam: Fixed Load Method*			X
Seam Tensile Properties: Grab Method*			X
Abrasion Resistance Of Fabrics By Martindale Method: Specimen Breakdown*	X		
Fabric Propensity To Surface Fuzzing And To Pilling: Modified Martindale Method*			X
Flammability Of Clothing Textiles*	X		
Ph Value*			X
Formaldehyde*			X
Azo-Amines And Arylamine Salts*			X
* TURKAK Accredited- See Appendix A			



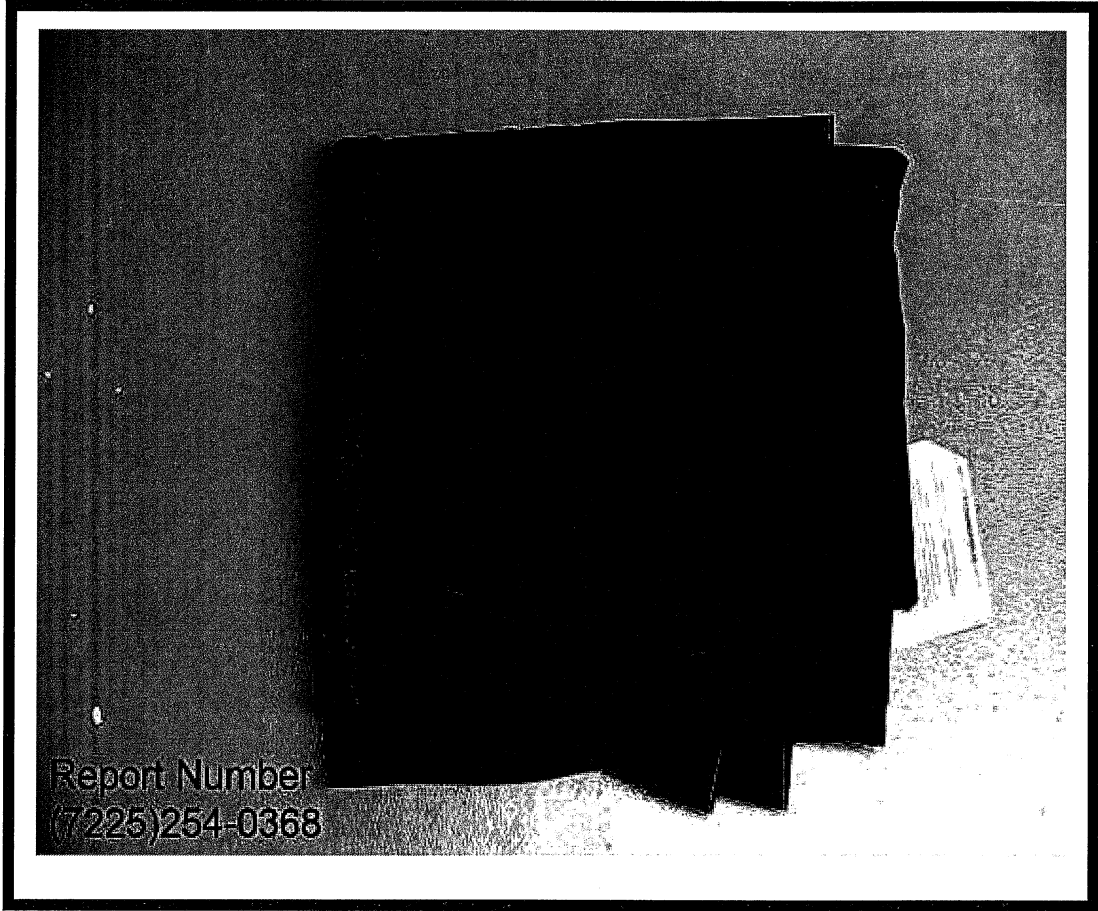
**REMARKS**

1	:	P: Pass, F: Fail, DATA: No Evaluation, N/A: Not Applicable
2	:	*The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of $k=2$ , providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.
3	:	The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

**COMPONENT LIST / LIST OF MATERIALS**

COMPONENT	DESCRIPTION	COMPOSITION
I001	Dark Navy Woven (Without Extraction)	/

ORIGINAL  
(SAMPLE IMAGE)



TEST RESULTS	REQUIREMENTS
--------------	--------------

### DIMENSIONAL STABILITY TO WASHING

BS EN ISO 6330, Wascator 3N @30C°, Flat Dry

	Original (mm)	After Wash (mm)	Change (%)	
LENGTH	350	349	-0.6	
WIDTH	350	348	-2.0	
(+) Extension		(-) Shrinkage		/

### DIMENSIONAL STABILITY TO DRY CLEANING

(ISO 3175-1) 1 Cycle

	Original (mm)	After 1 Dry Clean (mm)	Dimensional Change (%)	
Length	350	349	-0.3	
Width	350	349	-0.3	/

(+) EXTENSION

(-) SHRINKAGE

### DIMENSIONAL STABILITY TO WIRA STEAM

BS 4323

	Original (mm)	After Steam (mm)	Dimensional Change (%)	
LENGTH	250	248	-0.8	
WIDTH	250	249	-0.4	/
(+) Extension		(-) Shrinkage		



**TEST RESULTS**
**REQUIREMENTS**
**COLOURFASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING**

(ISO 105-C06:2010, TEST NO: A2S MECHANICAL WASH AT 30°C (MOD) IN 0.4% ECE DETERGENT AND 0.1% SODIUM PERBORATE SOLUTION WITH 10 STEEL BALLS), MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	

**COLOURFASTNESS TO WATER**

(ISO 105-E01:2013 MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	

**TEST RESULTS****REQUIREMENTS****COLOURFASTNESS TO PERSPIRATION**

(ISO 105-E04:2013, MULTIFIBRE DW)

	<u>Acid</u>	<u>Alkaline</u>	
Colour Change	4-5	4-5	/
Self-Staining	/	/	/
Colour Staining on Acetate	4-5	4-5	/
Colour Staining on Cotton	4-5	4-5	
Colour Staining on Polyamide	4-5	4-5	
Colour Staining on Polyester	4-5	4-5	
Colour Staining on Acrylic	4-5	4-5	
Colour Staining on Wool	4-5	4-5	

**TEST RESULTS****REQUIREMENTS****COLOURFASTNESS TO DRYCLEANING**

(ISO 105-D01: 2010, MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining on Acetate	4-5	/
Colour Staining on Cotton	4-5	
Colour Staining on Polyamide	4-5	
Colour Staining on Polyester	4-5	
Colour Staining on Acrylic	4-5	
Colour Staining on Wool	4-5	



**TEST RESULTS**
**REQUIREMENTS**

**COLOURFASTNESS TO LIGHT** (ISO 105-B02:2014, METHOD 3, XENON-ARC LAMP, MODIFICATION: EXPOSURE UP TO CONTRAST OF GREY SCALE 4)

**SAMPLE A**

RATING (NUMERICAL MEAN)

3-4

/

**COLOURFASTNESS TO RUBBING**

(ISO 105-X12:2016 / BS EN ISO 105-X12:2016 / DIN EN ISO 105-X12:2016)

	LENGTHWISE	WIDTHWISE	
Dry	4	4	/
Wet	2	2	/

GRADE 5	NEGLECTIBLE OR NO CHANGE	GRADE 5	NEGLECTIBLE OR NO STAINING
GRADE 4	SLIGHTLY CHANGED	GRADE 4	SLIGHTLY STAINED
GRADE 3	NOTICEABLY CHANGED	GRADE 3	NOTICEABLY STAINED
GRADE 2	CONSIDERABLY CHANGED	GRADE 2	CONSIDERABLY STAINED
GRADE 1	MUCH CHANGED	GRADE 1	HEAVILY STAINED

TEST RESULTS	REQUIREMENTS
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**FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING: MODIFIED MARTINDALE METHOD** (BS EN ISO 12945-2, TESTED AS RECEIVED)

	1	2	3	AVERAGE	
<b>PILLING</b>					
Grade at 2000 Rubs	4	4	4	4	/
<b>FUZZING</b>					
Grade at 2000 Rubs	4	4	4	4	/

\*REMARK

**PILLING GRADING SCHEME**

GRADE 5	NO CHANGE
GRADE 4	PARTIALLY FORMED PILLS
GRADE 3	MODERATE PILLING
GRADE 2	DISTINCT PILLING
GRADE 1	SEVERE PILLING

**ABRASION RESISTANCE OF FABRICS BY MARTINDALE METHOD: SPECIMEN BREAKDOWN**  
(BS EN ISO 12947-2 / Pressure Used 795g- 12 kPa)

<b>SAMPLE A</b>					
	Sample 1	Sample 2	Sample 3	Lowest Result	
NO. OF RUBS	>20000 Revs No Breakdown	>20000 Revs No Breakdown	>20000 Revs No Breakdown	>20000 Revs No Breakdown	20000 Revs
SHADE CHANGE @5000 Rubs	3-4				/

**TEAR PROPERTIES OF FABRICS: BALLISTIC PENDULUM METHOD (ELMENDORF)**  
(ISO 13937-1:2000/ BS EN ISO 13937-1:2000)

ACROSS WARP (g)	1747	/
ACROSS WEFT (g)	2233	/
*REMARK		

**TENSILE PROPERTIES OF FABRICS: GRAB METHOD**  
(ISO 13934-2:1999)

WARP (kg)	65.5	/
WEFT (kg)	49.8	/
*REMARK		

**TEST RESULTS****REQUIREMENTS****SLIPPAGE RESISTANCE OF YARNS AT SEAM: FIXED LOAD METHOD**

(ISO 13936-2:2004, FORCE APPLIED: 60N/ 120N/ 180N)

WARP WAY SEAM (MM)

0.5

/

WEFT WAY SEAM (MM)

0.8

/

MODE OF RUPTURE

**\*REMARKS**

(A) FABRIC TEAR

(B) FABRIC TEAR AT THE JAWS

(C) FABRIC TEAR AT THE SEAM

(D) BREAKAGE OF SEWING THREADS

(E) THREAD PULL-OUT

(F) ANY COMBINATION OF THESE





AB-0505-T

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09-25

**TEST RESULTS****REQUIREMENTS****FLAMMABILITY OF CLOTHING TEXTILES**(16 CFR 1610)**CLASSIFICATION**

IF SAMPLE FALLS UNDER SPECIFIC EXEMPTIONS AS LISTED BELOW, THE REPORT SHOULD BE RATED AS A PASS AND THE SPECIFIC EXEMPTION SHOULD BE NOTED IN THE REPORT.

EXEMPT DUE TO FABRIC WEIGHT: 8.3 OZ/YD<sup>2</sup> THE SUBMITTED SAMPLE(S) IS(ARE) EXEMPT FROM FLAMMABILITY TESTING IN ACCORDANCE WITH 16 CFR 1610.1(D) WHICH STATES:

**SPECIFIC EXEMPTIONS**

EXPERIENCE GAINED FROM YEARS OF TESTING IN ACCORDANCE WITH THE STANDARD DEMONSTRATES THAT CERTAIN FABRICS CONSISTENTLY YIELD ACCEPTABLE RESULTS WHEN TESTED IN ACCORDANCE WITH THE STANDARD. THEREFORE, PERSONS AND FIRMS ISSUING AN INITIAL GUARANTY OF ANY OF THE FOLLOWING TYPES OF FABRICS, OR OF PRODUCTS MADE ENTIRELY FROM ONE OR MORE OF THESE FABRICS ARE EXEMPT FROM ANY REQUIREMENT FOR TESTING TO SUPPORT GUARANTIES OF THOSE FABRICS.

1. PLAIN SURFACE FABRICS, REGARDLESS OF FIBER CONTENT, WEIGHING 2.6 OUNCES PER SQUARE YARD OR MORE; AND

2. ALL FABRICS, BOTH PLAIN SURFACE AND RAISED-FIBER SURFACE, REGARDLESS OF WEIGHT, MADE ENTIRELY FROM ANY OF THE FOLLOWING FIBERS OR ENTIRELY FROM COMBINATION OF THE FOLLOWING FIBERS: ACRYLIC, MODACRYLIC, NYLON, OLEFIN, POLYESTER, WOOL.

**CLASS 1**

C/NET/SD

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Issue Date: 05.06.2012  
Rev. No / Date: 36 / 10.07.2025

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Prepared by: Şahin Engin  
Controlled by: Sibel Yılmaz  
Approved by: Meltem Mat

## TEST RESULT

### PH VALUE

**Test Method I** : Textiles and Artificial Leather: SASO ISO 3071:2014

**Test Method II** : Leather: EN ISO 4045:2018

<b>Maximum Limit:</b>	/
-----------------------	---

-	Unit	Result
<b>Test Item(s)</b>	-	I001
<b>Test Method</b>	-	I
<b>Parameter</b>	-	-
pH Value of Extract Solution	-	-
Temp. of Aqueous Extract	deg. C	22.2
pH Value of Aqueous Extract	-	6.3
<b>Conclusion</b>	-	DATA

Note / Key :

deg. C = degree Celsius (°C)      Temp. = Temperature

Remark :

### Formaldehyde

**Test Method I** : All materials except Leather: JIS L 1041-2011 A (Japan Law 112) or EN ISO 14184-1:2011

**Test Method II** : Leather: EN ISO 17226-2:2019 with EN ISO 17226-1:2019 confirmation method in case of interferences. Alternatively, EN ISO 17226-1:2019 can be used on its own.

<b>Maximum Limit:</b>	/
-----------------------	---

Tested Item(s)	Result			Conclusion
	Detected Analyte(s)	Conc.	Unit	
1001	/	10	mg/kg	DATA

Note:

ND = Not detected      “>” = More than  
mg/kg = milligram per kilogram  
Detection Limit (mg/kg): 5

**TEST RESULTS****Azo-amines and Arylamine salts****Test Method I** : EN ISO 14362-1:2017**Test Method II** : ISO 17234-1:2015**Test Method III** : EN ISO 14362-3:2017 (For textile)/ ISO 17234-2:2011 (For leather)/  
CPSD-AN-00107-MTHD/26

Quantification analysis by GC-MS and confirmation by LC-DAD.

<b>Maximum Limit:</b>	/
-----------------------	---

Tested Item(s)	Test Method	Result			Conclusion
		Detected Analyte(s)	Conc.	Unit	
I001	I	/	ND	mg/kg	DATA

Note:

ND = Not detected

mg/kg = milligram(s) per kilogram

10 000 mg/kg = 1 %

Detection Limit ( mg/kg ) - 5 each

Remark:

“&gt;” = Greater than

mg/kg = ppm = part(s) per million

% = percent

Conc. = Concentration

- The list of Azo-amines and Aryl Amine salts is summarized in table of Appendix.



# APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES

TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Colourfastness to Domestic and Commercial Laundering	BS EN ISO 105 C06 EN ISO 105 C06 ISO 105 C06 TS EN ISO 105 C06	±0.5 Grade
Colourfastness to Water	BS EN ISO 105 E01 ISO 105 E01 TS EN ISO 105 E01	±0.5 Grade
Colourfastness to Light	BS EN ISO 105 B02 ISO 105 B02 EN ISO 105 B02 TS EN ISO 105 B02	±0.5 Grade
Colourfastness to Drycleaning	ISO 105 D01 BS EN ISO 105 D01 TS EN ISO 105 D01	±0.5 Grade
Colourfastness to Perspiration	ISO 105 E04 BS EN ISO 105 E04 TS EN ISO 105 E04	±0.5 Grade
Colourfastness to Rubbing	ISO 105 X12 BS EN ISO 105 X12 TS EN ISO 105 X12	±0.5 Grade
Appearance Assessment And Dimensional Stability For Fabrics And Garments	CPSD-SL-31068-MTHD	±0.5 Grade
Dimensional Stability To Washing	As a combination of 3 standards BS EN ISO 6330 BS EN ISO 5077 BS EN ISO 3759	± 5.0 %
Tear Properties Of Fabrics: Ballistic Pendulum Method (Elmendorf)	BS EN ISO 13937-1 TS EN ISO 13937-1	±5.7%
Tensile Properties Of Fabrics: Grab Method	BS EN ISO 13934-2 EN ISO 13934-2 ISO 13934-2 TS EN ISO 13934-2	±17.2%
Slippage Resistance Of Yarns At Seam: Fixed Load Method	BS EN ISO 13936-2 EN ISO 13936-2 ISO 13936-2 TS EN ISO 13936-2	±5.4%
Abrasion Resistance Of Fabrics By Martindale Method: Specimen Breakdown	BS EN ISO 12947-2 EN ISO 12947-2, AC ISO 12947-2, Cor1 TS EN ISO 12947-2, AC	±4.5%
Fabric Propensity To Surface Pilling Fuzzing or Matting: Modified Martindale Method	BS EN ISO 12945-2 EN ISO 12945-2 ISO 12945-2 TS EN ISO 12945-2	±0.5 Grade
pH Value	ISO 4045	±2.08%
Formaldehyde Content	BS EN ISO 14184-1	±4.85%
Azo-amines and Arylamine salts	EN ISO 14362-1	± % 21,04

## APPENDIX

List of Azo-amines and Arylamine salts:					
No.	Name of Analytes	CAS-No.	No.	Name of Analytes	CAS-No.
1	4-Aminodiphenyl	92-67-1	15	4,4'-Methylene-bis-(2-chloraniline)	101-14-4
2	Benzidine	92-87-5	16	4,4'-Oxydianiline	101-80-4
3	4-Chloro-o-toluidine	95-69-2	17	4,4'-Thiodianiline	139-65-1
4	2-Naphthylamine	91-59-8	18	o-Toluidine	95-53-4
5	o-Aminoazotoluene	97-56-3	19	4-Methyl-m-phenylenediamine (2,4-Toluenediamine)	95-80-7
6	5-nitro-o-toluidine (2-Amino-4-nitrotoluene)	99-55-8	20	2,4,5-Trimethylaniline	137-17-7
7	4-Chloroaniline (p-Chloroaniline)	106-47-8	21	o-Anisidine	90-04-0
8	4-Methoxy-m-phenylenediamine (2,4-Diaminoanisole)	615-05-4	22	4-Aminoazobenzene (p-Aminoazobenzene)	60-09-3
9	4,4'-Diaminodiphenylmethane (4,4'-Methylenedianiline)	101-77-9	23	2,4-Xylidine	95-68-1
10	3,3'-Dichlorobenzidine	91-94-1	24	2,6-Xylidine	87-62-7
11	3,3'-Dimethoxybenzidine (o-Dianisidine)	119-90-4	25	4-chloro-o-toluidinium chloride	3165-93-3
12	3,3'-Dimethylbenzidine (4,4'-Bi-o-toluidine)	119-93-7	26	2-Naphthylammoniumacetate	553-00-4
13	4,4'-Methylenedi-o-toluidine (3,3'-Dimethyl- 4,4'-diaminodiphenylmethane)	838-88-0	27	4-methoxy-m-phenylene diammonium sulphate; 2,4- diaminoanisole sulphate	39156-41-7
14	p-Cresidine	120-71-8	28	2,4,5-trimethylaniline hydrochloride	21436-97-5

**-END OF REPORT-**



**BV CPS TEST LABORATUVARLARI LTD. STI.**  
**BUREAU VERITAS CONSUMER PRODUCTS**  
**SERVICES**

Yalcin Kores Cad. No:22 Erdinc Binalari  
A Blok 1.Kule 1.Kat 34209 Gunesli, Istanbul / Turkey  
Tel:+90.212.494 35 35 Fax:+90.212.494 35 60  
email:info.turkey@bvcps.com.tr  
website: www.bureauveritas.com/cps



Test  
TS EN ISO/IEC 17025  
AB-0505-T

AB-0505-T

72252540370

09-25

## TEST REPORT

**LAB LOCATION: TURKEY**

**SERVICE TYPE: Regular**

**LAB NUMBER: (7225)254-0370**

**THE DATE OF RECEIPT OF TEST ITEM: September 11, 2025**

**START DATE FOR TESTING: September 11, 2025**

**DATE END OF TEST: September 15, 2025**

**NUMBER OF WORKING DAYS: 3.0**

**CUSTOMER NAME /** : M CHAPMAN&SONS LTD  
**ADDRESS** (Address: Chapman Works, Manchester Road, Dunnockshaw, Burnley,  
**CONTACT NAME** BB121 5PW)  
(Attn: Paige Newham-Foulds)  
**BUYER** : /  
**SUPPLIER REFERENCE** : Style Number: /  
PO Number: 13258-2  
Unique Product Code: 2598  
**SAMPLE DESCRIPTION** : Woven Fabric Sample (Hardy-Santed Twill)  
(Claimed Fiber Content: 100% Cotton)  
(Claimed Fabric Weight: /)  
**COLOUR** : Stone  
**SUBMITTED CARE** :  
**INSTRUCTION**   
**REASON FOR REVISION** : /



**Ayşegül Karayılan**  
Senior Client Team Lead

**Hasan Altıngül**  
Deputy General Manager Operation  
(15/09/2025)

**Date Out**  
(15/09/2025)

C/N/ ET/SD

BV CPS Test Laboratuvarları Ltd. Sti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International Laboratory Accreditation Cooperation (ILAC) Mutual Recognition Arrangement (MRA) for the recognition of test reports. This report is governed by, and incorporates by reference, the Conditions of Testing as posted at the date of issuance of this report at <http://www.bureauveritas.com/home/about-us/our-business/cps/about-us/terms-conditions/> and is intended for your exclusive use. Any copying or replication of this report to or for any other person or entity, or use of our name or trademark, is permitted only with our prior written permission. This report sets forth our findings solely with respect to the test samples identified herein. The results set forth in this report are not indicative or representative of the quality or characteristics of the lot from which a test sample was taken or any similar or identical product unless specifically and expressly noted. Our report includes all of the tests requested by you and the results thereof based upon the information that you provided to us. Measurement uncertainty is only provided upon request for accredited tests. The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report. Statements of conformity are based on simple acceptance criteria without taking measurement uncertainty into account, unless otherwise requested in writing. You have 60 days from the date of issuance of this report to notify us of any material error or omission caused by our negligence or if you require measurement uncertainty, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents. Testing reports without signature are not valid. BV CPS Test Laboratories is not responsible for deviations for the accuracy of the information provided by the customer that may affect the validity of the test results. Test results given in this test report represent only the sample(s) delivered to the laboratory, as sent to BV CPS Test Laboratories by the client/vendor via courier, cargo and/or manual delivery. No sampling is performed by BV CPS Test Laboratories.

**SUMMARY OF TEST RESULTS**

TEST PERFORMED	PASS	FAIL	DATA
Colorfastness To Domestic And Commercial Laundering*			<b>X</b>
Colourfastness To Water*			<b>X</b>
Colourfastness To Perspiration*			<b>X</b>
Colourfastness To Drycleaning *			<b>X</b>
Colourfastness Light*			<b>X</b>
Colorfastness To Rubbing*			<b>X</b>
<b>*TURKAK Accredited- See Appendix A</b>			

REMARKS		
1	:	P: Pass, F: Fail, DATA: No Evaluation, N/A: Not Applicable
2	:	*The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/ fail limits, some results may be in borderline. Information on uncertainty is contained in appendix A on this report.
3	:	The test and/or measurement results, the uncertainties (if applicable) with confidence probability and test methods are given on the following pages which are part of this report.

ORIGINAL  
(SAMPLE IMAGE)





**TEST RESULTS**

**REQUIREMENTS**

**COLOURFASTNESS TO DOMESTIC AND COMMERCIAL LAUNDERING**

(ISO 105-C06:2010, TEST NO: A2S MECHANICAL WASH AT 30°C (MOD) IN 0.4% ECE DETERGENT AND 0.1% SODIUM PERBORATE SOLUTION WITH 10 STEEL BALLS), MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining On Acetate	4-5	/
Colour Staining On Cotton	4-5	
Colour Staining On Nylon/Polyamide	4-5	
Colour Staining On Polyester	4-5	
Colour Staining On Acrylic	4-5	
Colour Staining On Wool	4-5	

**COLOURFASTNESS TO WATER**

(ISO 105-E01:2013 MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining On Acetate	4-5	/
Colour Staining On Cotton	4-5	
Colour Staining On Nylon/Polyamide	4-5	
Colour Staining On Polyester	4-5	
Colour Staining On Acrylic	4-5	
Colour Staining On Wool	4-5	

**TEST RESULTS****REQUIREMENTS****COLOURFASTNESS TO PERSPIRATION**

(ISO 105-E04:2013, MULTIFIBRE DW)

	<u>Acid</u>	<u>Alkaline</u>	
Colour Change	4-5	4-5	/
Self-Staining	/	/	/
Colour Staining On Acetate	4-5	4-5	/
Colour Staining On Cotton	4-5	4-5	
Colour Staining On Nylon/Polyamide	4-5	4-5	
Colour Staining On Polyester	4-5	4-5	
Colour Staining On Acrylic	4-5	4-5	
Colour Staining On Wool	4-5	4-5	



**TEST RESULTS****REQUIREMENTS****COLOURFASTNESS TO DRYCLEANING**

(ISO 105-D01: 2010, MULTIFIBRE DW)

Colour Change	4-5	/
Self-Staining	/	/
Colour Staining On Acetate	4-5	/
Colour Staining On Cotton	4-5	
Colour Staining On Nylon/Polyamide	4-5	
Colour Staining On Polyester	4-5	
Colour Staining On Acrylic	4-5	
Colour Staining On Wool	4-5	

**TEST RESULTS**
**REQUIREMENTS**

**COLOURFASTNESS TO LIGHT** (ISO 105-B02:2014, METHOD 3, XENON-ARC LAMP, MODIFICATION: EXPOSURE UP TO CONTRAST OF GREY SCALE 4)

RATING (NUMERICAL MEAN)

3-4

/

**COLOURFASTNESS TO RUBBING**

(ISO 105-X12:2016 / BS EN ISO 105-X12:2016 / DIN EN ISO 105-X12:2016)

**SAMPLE A**

LENGTHWISE

WIDTHWISE

Dry

4-5

4-5

/

Wet

4

4

/

GRADE 5 NEGLIGIBLE OR NO CHANGE

GRADE 5 NEGLIGIBLE OR NO STAINING

GRADE 4 SLIGHTLY CHANGED

GRADE 4 SLIGHTLY STAINED

GRADE 3 NOTICEABLY CHANGED

GRADE 3 NOTICEABLY STAINED

GRADE 2 CONSIDERABLY CHANGED

GRADE 2 CONSIDERABLY STAINED

GRADE 1 MUCH CHANGED

GRADE 1 HEAVILY STAINED

**APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES**

TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
Colourfastness to Domestic and Commercial Laundering	BS EN ISO 105 C06 EN ISO 105 C06 ISO 105 C06 TS EN ISO 105 C06	±0.5 Grade
Colourfastness to Water	BS EN ISO 105 E01 ISO 105 E01 TS EN ISO 105 E01	±0.5 Grade
Colourfastness to Light	BS EN ISO 105 B02 ISO 105 B02 EN ISO 105 B02 TS EN ISO 105 B02	±0.5 Grade
Colourfastness to Drycleaning	ISO 105 D01 BS EN ISO 105 D01 TS EN ISO 105 D01	±0.5 Grade
Colourfastness to Perspiration	ISO 105 E04 BS EN ISO 105 E04 TS EN ISO 105 E04	±0.5 Grade
Colourfastness to Rubbing	ISO 105 X12 BS EN ISO 105 X12 TS EN ISO 105 X12	±0.5 Grade

**-END OF REPORT-**