M Chapman & Sons Textiles Ltd
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Technical Document	Article-	**Constable**	Release Date-	01 July 2025
Description-	Bedford Cord		Composition-	100% Cotton
Applications-	Apparel			

Weight (g/m2)	380		UNI 5114
Weight Linear (g/m)	570		
Warp Yarn per Inch	45		UNI EN 1049/2
Weft Yarn per Inch	22		
Warp Yarn Count	16		ISO 7211/5
Weft Yarn Count	7		
Minimum Usable Width	146cm		UNI EN 1773
Customs Tariff Code (HS)	52093900		
County of Origin	Turkey		
Yarn Origin	Turkey		
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
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	350 N	UNI EN ISO 13934-2
	Weft	550 N	
Tear Strength	Warp	15 N	UNI EN ISO 13937-2
	Weft	35 N	
Seam Slippage (6mm)	Warp	> 20kg	UNI EN ISO 13936-1
	Weft	> 20kg	
Abrasion Resistance	Face	Grade 4 @ 6000 Rubs	UNI EN ISO 12947-2
Martindale	Face	Breakdown @ 55000 Rubs	
Pilling (2000 Revolutions)	Face	Grade 3	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				3				
Light	UNI EN ISO 105-B02	4							

		Grade	Change in Colour	Light 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				4				
Light	UNI EN ISO 105-B02	4							

Chemical, Ecotoxicological & Flammability -

pH-value Water Extract	4.0 - 7.5	UNI EN ISO 3071
Flammability	Class 1	16 CFR 1610
Formaldehyde	< 16 mg/kg	UNI EN ISO 14184/1
Cancer-causing Aromatic Amines	< 20 ppm	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
GOTS Available	GCL-303412
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
72251640471
06-25

TEST REPORT

LAB LOCATION:TURKEY
SERVICE TYPE: Regular
LAB NUMBER: (7225)164-0471
THE DATE OF RECEIPT OF TEST ITEM: June 13, 2025
START DATE FOR TESTING: June 13, 2025
DATE END OF TEST: June 20, 2025
NUMBER OF WORKING DAYS: 6.0

CUSTOMER NAME / ADDRESS CONTACT NAME	:	M CHAPMAN&SONS LTD (Address: Bridgeroyd Works, Halifax Rd, Todmorden, Lancashire, OL14 6DF) (Attn: Paige/Josh)
BUYER	:	/
SUPPLIER REFERENCE	:	Style Number: / PO Number: 13515-2
SAMPLE DESCRIPTION	:	Woven Fabric Sample (Constable) (Claimed Fiber Content: 100% Cotton) (Claimed Fabric Weight: /)
COLOUR	:	Black 2555
SUBMITTED CARE INSTRUCTION	:	
REASON FOR REVISION	:	/

Date Out
(20/06/2025)

Ali Payalan
Senior Client Team Lead

Hasan Altingul
Deputy General Manager Operation
(20/06/2025)

C/N/ ET/SD

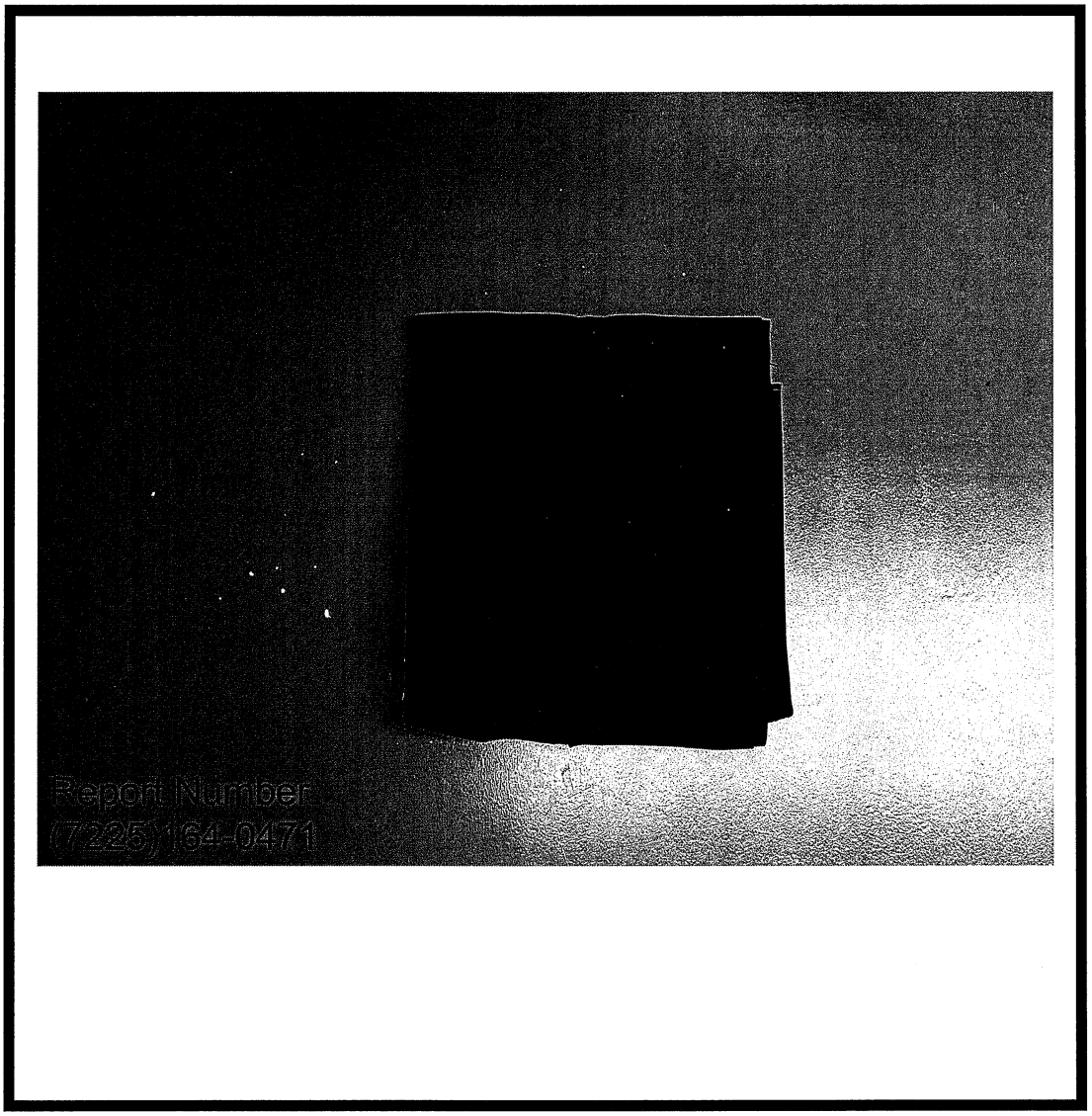
SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA
Appearance Assessment And Dimensional Stability For Fabrics And Garments*	X		
Appearance Assessment And Dimensional Stability For Fabrics And Garments(Dry Cleaning)*	X		
Spirality After Laundering: Woven And Knitted Fabrics*			X
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 Hot Pressing			X
Colourfastness To Light*			X
Colorfastness To Rubbing*			X
Tear Properties Of Fabrics: Single Tear Method			X
Tensile Properties Of Fabrics: Grab Method			X
Slippage Resistance Of Yarns At Seam: Fixed Seam Opening Method*			X
Abrasion Resistance Of Fabrics By Martindale Method: Specimen Breakdown*			X
Fabric Propensity to Surface Fuzzing And to Pilling: Modified Martindale Method*			X
Fabric Weight*			X
Fabric Propensity To Snagging - Rotating Chamber Method			X
Thread Count Of Woven Fabric*			X
Bow and Skew in Woven and Knitted Fabrics			X
Yarn Number*			X
Flammability Of Clothing Textiles*	X		
Ph Value*			X
Formaldehyde*			X
Azo-amines and Arylamine salts*			X
Allergenic Dyes and Other Banned Dyestuffs Content*			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	Black Woven Base	/

ORIGINAL
(SAMPLE IMAGE)



TEST RESULTS	REQUIREMENTS

Appearance Assessment And Dimensional Stability For Fabrics And Garments CPSD-SL-31068-MTHD According to BS EN ISO 6330, Wascator 3N@30°C, Line Dry, Warm Iron, After 1Wash		
General Evaluation	-Satisfactory	No Significant Change
Colour Change Using Grey Scale Assessment. (BS EN ISO 20105-A02:1995)	BASE:4-5	4 or Better
Cross Staining I.E. Colour Transfer Onto Component Parts Using Grey Scale Assessment. (BS EN 20105-A03: 1995)	N/A	4-5 or Better Neon/Fluorescent Shades:3-4 or Better
Colour Staining On		
Acetate	4-5	4 or Better Neon/Fluorescent Shades:3-4 or Better
Cotton	4-5	
Nylon	4	
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	
Fraying of Fabrics And Trims.	N/A	Not Frayed
Detachment Of Fastenings And Trims.	N/A	Not Detached
Spirality/ Twisting of Seam. (BS EN ISO 16322-3 Procedure B)	0.0	5% or Less
Grinning/ Opening Of Seams. Measure Seam Opening.	4 mm or Less	4 mm or Less
Pilling Or Fuzzing Of Surface Fibres. Assess Degree Of Pilling/ Fuzzing Using BS EN ISO 12945-1 Grades.	4-5	4 or Better
Pile Loss Or Flattening Of Pile. Assess For Flattening And Pile Loss	N/A	No Visible Flattening or Pile Loss
Corrosion/ Damage To Trim (s). (Including Chipping/ Scratching Of Coatings)	N/A	No Corrosion/ Damage
Delamination Of Fused Components.	N/A	No Delamination
Free Running Of Zip Fastening. Assess Free Running In Both Directions. Open And Close Open-Ended Zip Fasteners.	N/A	Runs Freely In Both Directions
Differential Shrinkage Of Components/ Parts. Assess For Distorting, Wrinkling Or Twisting Of Components And/ or Puckering Of Seams.	No Change (s) Observed	No Change (s) Observed
Unravelling/ Breaks In Stitching.	N/A	No Unravelling/ Breaks Observed
Wadding Has Moved Within Casing (Outer And Lining) And/ Or Migrated Through Casing.	N/A	No Movements or Migration Observed
Other Change(s) Observed	No change observed	No change observed
N/A: Not Applicable		

SPIRALITY AFTER LAUNDERING: WOVEN AND KNITTED FABRICS (ISO 16322-2:2021, Procedure C, Wascator 3N@30°C, Line Dry)		
SPIRALITY (%)	0.0%	

TEST RESULTS		REQUIREMENTS
Appearance Assessment And Dimensional Stability For Fabrics And Garments CPSD-SL-31068-MTHD (DRY CLEANING)		
General Evaluation	-Satisfactory	No Significant Change
Colour Change Using Grey Scale Assessment. (BS EN ISO 20105-A02:1995)	BASE:4-5	4 or Better
Cross Staining I.E. Colour Transfer Onto Component Parts Using Grey Scale Assessment. (BS EN 20105-A03: 1995)	N/A	4-5 or Better Neon/Fluorescent Shades:3-4 or Better
Colour Staining On		
Acetate	4-5	4 or Better Neon/Fluorescent Shades:3-4 or Better
Cotton	4-5	
Nylon	4-5	
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	
Fraying of Fabrics And Trims.	Not Frayed	Not Frayed
Detachment Of Fastenings And Trims.	N/A	Not Detached
Spirality/ Twisting of Seam. (BS EN ISO 16322-3 Procedure B)	0.0	5% or Less
Grinning/ Opening Of Seams. Measure Seam Opening.	N/A	4 mm or Less
Pilling Or Fuzzing Of Surface Fibres. Assess Degree Of Pilling/ Fuzzing Using BS EN ISO 12945-1 Grades.	4-5	4 or Better
Pile Loss Or Flattening Of Pile. Assess For Flattening And Pile Loss	N/A	No Visible Flattening or Pile Loss
Corrosion/ Damage To Trim (s). (Including Chipping/ Scratching Of Coatings)	N/A	No Corrosion/ Damage
Delamination Of Fused Components.	N/A	No Delamination
Free Running Of Zip Fastening. Assess Free Running In Both Directions. Open And Close Open-Ended Zip Fasteners.	N/A	Runs Freely In Both Directions
Differential Shrinkage Of Components/ Parts. Assess For Distorting, Wrinkling Or Twisting Of Components And/ or Puckering Of Seams.	No Change (s) Observed	No Change (s) Observed
Unravelling/ Breaks In Stitching.	N/A	No Unravelling/ Breaks Observed
Wadding Has Moved Within Casing (Outer And Lining) And/ Or Migrated Through Casing.	N/A	No Movements or Migration Observed
Other Change(s) Observed	No change observed	No change observed
N/A: Not Applicable		

TEST RESULTS	REQUIREMENTS

DIMENSIONAL STABILITY TO WASHING
BS EN ISO 6330, Wascator 3N @30C°, Line Dry

	Original (mm)	After Wash (mm)	Change (%)	/
LENGTH	350	353	+0.9	
WIDTH	350	343	-2.0	
(+) Extension		(-) Shrinkage		

DIMENSIONAL STABILITY TO WASHING
(DRY CLEANING)

	Original (mm)	After Wash (mm)	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	250	-0.0	/
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 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/ MULTIFIBRE TV/ SINGLE ADJACENT FABRIC)		
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 PERSPIRATION (ISO 105-E04:2013, MULTIFIBRE DW)			
	Acid	Alkaline	
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	

COLOURFASTNESS TO HOT PRESSING (ISO 105-X11:1994) WARM IRON				
	DRY	DAMP	WET	
Colour Change – After Testing	4-5	4-5	4-5	/
Colour Staining - After Testing	4-5	4-5	4-5	/
Colour Change – After Conditioning For 4 Hrs	4-5	4-5	4-5	/

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

COLOURFASTNESS TO RUBBING (ISO 105-X12:2016 / BS EN ISO 105-X12:2016 / DIN EN ISO 105-X12:2016)			
	LENGTHWISE	WIDTHWISE	
Dry	4-5	4-5	/
Wet	3-4	3-4	/

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

TEST RESULTS	REQUIREMENTS

TEAR PROPERTIES OF FABRICS: SINGLE TEAR METHOD (ISO 13937-2:2000)		
ACROSS WARP (N)	16.7	/
ACROSS WEFT (N)	36.3	/
*REMARK		

TENSILE PROPERTIES OF FABRICS: GRAB METHOD (ISO 13934-2:1999)						
WARP (N)	374.6					/
WEFT (N)	574.7					/
*REMARK						

SLIPPAGE RESISTANCE OF YARNS AT SEAM: FIXED SEAM OPENING METHOD (ISO 13936-1:2004)			
	SEAM SLIPPAGE	SEAM STRENGTH	/
WARP	NSS	>20 Kg	
WEFT	NSS	>20 Kg	
* 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 (NSS) NO SEAM SLIPPAGE			

ABRASION RESISTANCE OF FABRICS BY MARTINDALE METHOD: SPECIMEN BREAKDOWN (BS EN ISO 12947-2 / Pressure Used 795g- 12 kPa)					
	Sample 1	**Sample 2**	**Sample 3**	**Lowest Result**	
NO. OF RUBS	@58000 Revs Breakdown	@58000 Revs Breakdown	@58000 Revs Breakdown	@58000 Revs Breakdown	/
SHADE CHANGE @6000 Rubs	4				/

TEST RESULTS	REQUIREMENTS

DETERMINATION OF FABRIC WEIGHT (BS EN 12127:1998 / ISO 3801:1977)		
G/M²	366	/ (CLAIM: /)
*REMARK		

FABRIC PROPENSITY TO SURFACE PILLING, FUZZING OR MATTING: MODIFIED MARTINDALE METHOD
(BS EN ISO 12945-2, Pretreatment: Original)

	Pilling	Fuzzing
Grade at 2000 Rubs	3	3

Surface Fuzzing was Observed

* Remark
* Noticed Fuzzing/Matting Was Observed

Pilling Grading Scheme
No Change
Partially Formed Pills
Moderate Pilling
Distinct Pilling
Severe Pilling

TEST RESULTS	REQUIREMENTS

FABRIC PROPENSITY TO SNAGGING - ROTATING CHAMBER METHOD
(BS 8479:2008, **AS RECEIVED**)

	1-LENGTH	2-LENGTH	3-WIDTH	4-WIDTH	AVERAGE		
					LENGHT	WIDTH	
GRADE:	4	4	4	4	4	4	/
CLASSIFICATION:	F	F	F	F	F	F	
NO. OF SNAGS ≤2MM (SHORT):	/	/	/	/	/	/	
NO. OF SNAGS >2MM ≤5MM (MEDIUM):	/	/	/	/	/	/	
NO. OF SNAGS >5MM (LONG):	/	/	/	/	/	/	
*REMARK							

GRADING	
5	NONE – NO SNAGS OR OTHER SURFACE DEFECTS
4	SLIGHT – SNAGS OR OTHER SURFACE DEFECTS IN ISOLATED AREAS
3	MODERATE - SNAGS OR OTHER SURFACE DEFECTS PARTIALLY COVERING THE SURFACE
2	DISTINCT – SNAGS OR OTHER SURFACE DEFECTS COVERING A LARGE PROPORTION OF THE SURFACE
1	SEVERE – SNAGS OR OTHER SURFACE DEFECTS COVERING THE ENTIRE SURFACE

CLASSIFICATION FOR SURFACE DEFECTS	
A	SNAGGING
B	PROTRUSIONS
C	INDENTATIONS
D	SHINERS, PULLED THREADS OR OTHER DISTORTIONS OF THE FABRIC STRUCTURE, OCCURING IN CLOSE PROXIMITY TO SNAG LOOPS AND/OR NOT ASSOCIATED WITH ANY SNAG LOOP
E	VISIBLE DEFECTS DUE TO COLOUR CONTRASTS
F	FILAMENTATION
G	ANY OTHER DEFECTS SPECIFIC TO THE FABRIC TYPE AND WHICH DETRACT FROM THE ORIGINAL SURFACE APPEARANCE. A DESCRIPTION SHALL BE INCLUDED IN THE TEST REPORT
X	NO VISIBLE SURFACE DEFECTS

THREAD COUNT OF WOVEN FABRIC (BS EN 1049-2)		
Warp /1 cm	43.2	Claim: /
Weft/1 cm	22.2	

TEST RESULTS		REQUIREMENTS
BOW AND SKEW IN WOVEN FABRIC (ISO 13015)		
LOCAL SKEW (%)	1%	/
WEFT BOW (Mm)	5 mm	/
* Remarks		

YARN NUMBER (ISO 7211/5)

SAMPLE DESCRIPTION:	**Weft Yarn**	**Warp Yarn**
Unit	RESULT	RESULT
Nm:	12.8	30.8
Ne	7.52/ 1	18.22
Tex	/	/
Denier	/	/

/

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: 11.1 OZ/YD² 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

TEST RESULT

PH VALUE

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

Test Method II : Leather: EN ISO 4045:2018

Maximum Limit:	/

-	**Unit**	**Result**
Test Item(s)	-	I001
Test Method	-	I
Parameter	-	-
pH Value of Extract Solution	-	-
Temp. of Aqueous Extract	deg. C	21.4
pH Value of Aqueous Extract	-	5.7
Conclusion	-	DATA

Note / Key :

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

Remark :

Formaldehyde

Test Method I : All materials exceptLeather: 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.

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
1001	/	9	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.

Maximum Limit:	/

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

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

Allergenic Dyes and Other Banned Dyestuffs Content

Test Method I : All materials: DIN 54231:2022
Test Method II : 54231:2022 - LC-MS /MS 64LFGB 82.02-10Mod.

Quantification analysis by LC-MS

Maximum Limit:	/

Tested Item(s)	**Result**			**Conclusion**
	Detected Analyte(s)	**Conc.**	**Unit**	
I001	/	ND	mg/L	DATA

Note:

ND = Not detected
mg/kg = milligram(s) per kilogram
10 000 mg/kg = 1 %
Detection Limit (mg/L) - 1 each

">" = Greater than
mg/kg = ppm = part(s) per million
% = percent

Conc. = Concentration

Remark:

- The list of Dyes, Forbidden and Disperse is summarized in table of Appendix.

**Indicates does not meet the requirements

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 %
Spirality After Laundering: Woven And Knitted Fabrics	ISO 16322-2	8.9%
Tear Properties Of Fabrics: Single Tear Method	BS EN ISO 13937-2 TS EN ISO 13937-2	±10.8%
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 Seam Opening Method	BS EN ISO 13936-1 EN ISO 13936-1 ISO 13936-1 TS EN ISO 13936-1	±4.9%
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%
Determination Of Fabric Weight	ISO 3801-Option 5 BS EN 12127 TS EN 12127	±4.2%
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
Thread Count Of Woven Fabric	BS EN 1049-2 (Method A) EN 1049-2 (Method A) TS 250 EN 1049-2 (Method A) ISO 7211-2 (Method A)	±4.1%
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
Dyes (Forbidden and Disperse)	DIN 54231	Allergenic dyes ±13.65% Carcinogenic dyes ±18.10%

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-tolidine)	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

List of Allergenic Dyes:				
Name of Analytes	**CAS-No.**	**No.**	**Name of Analytes**	**CAS-No.**
Disperse blue 1	2475-45-8	12	Disperse orange 37/76/59 **	13301-61-6
Disperse blue 3	2475-46-9	13	Disperse red 1	2872-52-8
Disperse blue 7	3179-90-6	14	Disperse red 11	2872-48-2
Disperse blue 26	3860-63-7	15	Disperse red 17	3179-89-3
Disperse blue 35	12222-75-2	16	Disperse yellow 1	119-15-3
Disperse blue 102	12222-97-8	17	Disperse yellow 3	2832-40-8
Disperse blue 106	12223-01-7	18	Disperse yellow 9	6373-73-5
Disperse blue 124	61951-51-7	19	Disperse yellow 39	12236-29-2
Disperse brown 1	23355-64-8	20	Disperse yellow 49	54824-37-2
Disperse orange 1	2581-69-3	** Disperse orange 76 and disperse orange 59 is a synonyme name for disperse orange 37.		
Disperse orange 3	730-40-5			
List of Carcinogenic Dyes:				

-END OF REPORT-

BV CPS TEST LABORATUVARLARI LTD. STI.
BUREAU VERITAS CONSUMER PRODUCTS SERVICES
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email:info.turkey@bvcps.com.tr
website: www.bureauveritas.com/cps

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

AB-0505-T
72251640472
06-25

TEST REPORT

LAB LOCATION:TURKEY
SERVICE TYPE: Regular
LAB NUMBER: (7225)164-0472
THE DATE OF RECEIPT OF TEST ITEM: June 13, 2025
START DATE FOR TESTING: June 13, 2025
DATE END OF TEST: June 17, 2025
NUMBER OF WORKING DAYS: 3.0

CUSTOMER NAME / ADDRESS CONTACT NAME	:	M CHAPMAN&SONS LTD (Address: Bridgeroyd Works, Halifax Rd, Todmorden, Lancashire, OL14 6DF) (Attn: Paige/Josh)
BUYER	:	/
SUPPLIER REFERENCE	:	Style Number: / PO Number: 13527-13
SAMPLE DESCRIPTION	:	Knit Fabric Sample (Constable) (Claimed Fiber Content: 100% Cotton) (Claimed Fabric Weight: /)
COLOUR	:	Cream 2585
SUBMITTED CARE INSTRUCTION:	:	
REASON FOR REVISION	:	/

Date Out
(17/06/2025)

Ali Payalan
Senior Client Team Lead

Hasan Altingul
Deputy General Manager Operation
(17/06/2025)

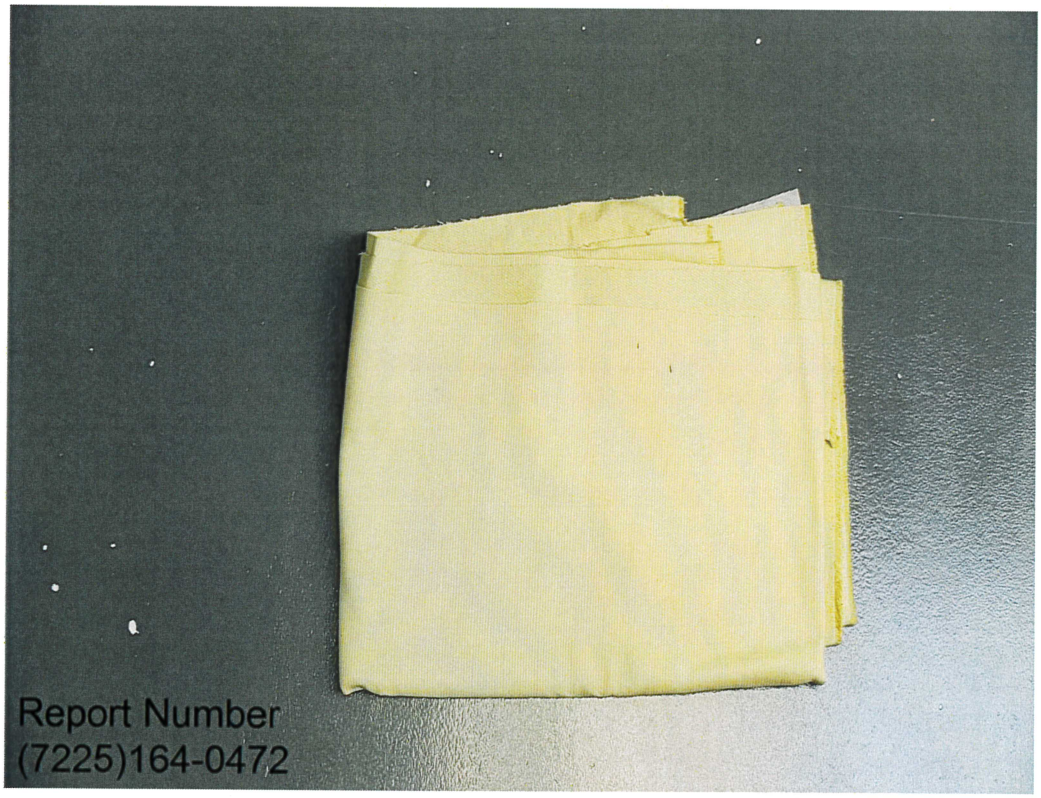
C/N/ ET/SD

SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA
Colorfastness To Domestic And Commercial Laundering*			X
Colourfastness To Water*			X
Colourfastness To Perspiration*			X
Colourfastness To Drycleaning *			X
Colourfastness To Hot Pressing			X
Colourfastness To Light*			X
Colorfastness To Rubbing*			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.

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/ MULTIFIBRE TV/ SINGLE ADJACENT FABRIC)		
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 PERSPIRATION
(ISO 105-E04:2013, MULTIFIBRE DW)

	Acid	Alkaline	
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	

COLOURFASTNESS TO HOT PRESSING
(ISO 105-X11:1994)

	DRY	DAMP	WET	
Colour Change – After Testing	4-5	4-5	4-5	/
Colour Staining - After Testing	4-5	4-5	4-5	/
Colour Change – After Conditioning For 4 Hrs	4-5	4-5	4-5	/

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

RATING (NUMERICAL MEAN)	4	/

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

	LENGTHWISE	WIDTHWISE	
Dry	4-5	4-5	/
Wet	4-5	4-5	/

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

**Indicates does not meet the requirements

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-