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M Chapman & Sons Textiles Ltd
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Burnley
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United Kingdom
BB11 5PW

Technical Document		Article-	M25	Release Date-	01 August 2024
Description-		Medium Weight Moleskin		Composition-	100% Cotton
Applications-		Apparel			
Weight (g/m ²)		330		UNI 5114	
Weight Linear (g/m)		495			
Warp Yarn per Inch		61		UNI EN 1049/2	
Weft Yarn per Inch		99			
Warp Yarn Count		16s		ISO 7211/5	
Weft Yarn Count		12s			
Minimum Usable Width		146cm		UNI EN 1773	
Customs Tariff Code (HS)		52093900			
County of Origin		Italy			
Yarn Origin		USA/Turkey			
Weaving Origin		Austria			
Dyeing/Finishing Origin		Italy			
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	600N		UNI EN ISO 13934-1	
	Weft	800N			
Tear Strength	Warp	27N		UNI EN ISO 13927-2	
	Weft	27N			
Seam Slippage (6mm)	Warp	> 20kg		UNI EN ISO 13935-1	
	Weft	> 20kg			
Abrasion Resistance (9kPa)	Face	Grade 4/5 @ 30,000 Rubs		UNI EN ISO 12947-2	
Pilling (2000 Revolutions)	Face	Grade 3/4 @ 30,000 Rubs		UNI EN ISO 12945-2	
Martindale	Face	Grade 4		20,000rpm	
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	3	3	3	3	3	3	3
Dry Ironing	UNI EN ISO 105-X11	3	3	3	3	3	3	3
Wet Ironing	UNI EN ISO 105-X11	3	3	3	3	3	3	3
Acid Pers	UNI EN ISO 105-E04	3	3	3	3	3	3	3
Alkaline Pers	UNI EN ISO 105-E04	3	3	3	3	3	3	3
Water	UNI EN ISO 105-E01	3	3	3	3	3	3	3
Washing	UNI EN ISO 105-C06	3	3	3	3	3	3	3
Dry Rubbing	UNI EN ISO 105-X12			3/4				
Wet Rubbing	UNI EN ISO 105-X12			2/3				
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			3				
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
Better Cotton Available	1030682-1

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Test Report	No. 28515555	Date: 11 th February 2025	Page 1 of 9
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Sample Description	:	Mediumweight Moleskin
Customer	:	Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF
Product type	:	Apparel M25 100% Cotton 330 g/m ²
PO Number	:	13619-3A
Colour	:	DK Brown / 1419
Contact person	:	Stephen Newham, Joshua Barker-Lockwood

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

* * * *

Sample Receiving Date : 22nd January 2025

Testing Period : 22nd January 2025 – 11th February 2025

Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property			
Colour Fastness to Washing	Data	Tear Strength - Trouser	Data
Colour Fastness to Dry Cleaning	Data	Seam Slippage	Data
Colour Fastness to Perspiration	Data	Pilling Resistance	Data
Colour Fastness to Water	Data	Abrasion Resistance	Data
Colour Fastness to Light*	Data	Yarn Count*	Data
Colour Fastness to Hot Pressing*	Data	Formaldehyde*	Pass
Colour Fastness to Rubbing	Data	pH Value	Data
Dimensional Stability to Washing	Data	Bow & Skew**	Data
Dimensional Stability to Dry Cleaning**	Data	Azo Dyes*	Pass
Dimensional Stability to Free Steam (wira)*	Data	Tear Strength - Elmandorf	Data
Tensile Strength	Data		

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

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Signed for and on behalf of
TÜV Rheinland UK LTD

**Christopher
Clarke**

**Chris Clarke
Laboratory Supervisor**

Digitally signed by
 Christopher Clarke
 Date: 2025.02.11 10:17:34 Z



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Test Report

No. 28515555

 Date: 11th February 2025

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Test result is drawn according to the kind and extent of tests performed.

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Results:
Colour Fastness to Washing

Washing Condition: A2S, 30°C (Deviation) With ECE(B) + Sodium Perborate, 10 Steel Balls.

Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
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 bad and 5 is good

Colour Fastness to Water

BS EN ISO 105 E01: 2013

Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
Acetate	4
Cotton	3
Polyamide	4-5
Polyester	4-5
Acrylic	4
Wool	4-5

Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Colour Fastness to Rubbing

BS EN ISO 105 X12: 2016

Sample	Result	
	Warp	
	Dry: 4-5	Wet: 3
	% Soak: 100	% Soak: 100

Atmospheric Conditions: 65% RH, 20°C

Conditioning time of sample and rubbing cloth: 4 Hours

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Colour Fastness to Light BS EN ISO 105 B02 Method 3: 2013	
Sample	
	>4

Colour Fastness to Hot Pressing BS EN ISO 105 X11 @ 150°C: 1994	
Sample	<p>Immediately After Testing colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5</p> <p>After Conditioning Colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5</p> <p>Colour Staining Damp: 4-5 Wet: 2-3</p>

Colour Fastness to Dry Cleaning BS EN ISO 105-D01: 2010	
	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	Result
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 bad and 5 is good

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Colour Fastness To Perspiration BS EN ISO 105-E04: 2013		
Sample	Result	
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining		
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	4-5	4-5
Polyamide	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 the 5-step scale of 1 to 5, where 1 is bad and 5 is good

Abrasion Resistance (BS EN ISO 12947-2:2016/AC:2006); Martindale Wear & Abrasion Tester; 9 kPa Pressure) The criterion for judging end point was Two Threads Broken			
Result			
	Specimen 1	Specimen 2	Specimen 3
No Two Thread Breakdown	30,000	30,000	30,000
Colour Change At 3000 (rubs)	4-5	4-5	4-5

Remarks: Grey Scale Rating is based on the step scale of 1 to 5, where 1 is bad and 5 is good
Observation Technique: 40 fold magnification

Pilling Resistance (BS EN ISO 12945-2:2020; Martindale Abrasion & Pilling Tester; Tested against self No cleansing required		Average Result
After 2000 Rubs Rating		P: 3-4 F: 3-4 M: 4-5
P=Pilling F=Fuzzing M=Matting		

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Tensile Strength
 (BS EN ISO 13934-1:2013)

Direction	Result
Warp	66.8 kg
Weft	114.7 kg

Dimensional Change After Washing

BS EN ISO 6330: 2012

3N @ 30°C Flat Dry

Direction	%Change
Warp	-1.2 %
Weft	-1.8 %

Dimensional Change After Commercial Dry Cleaning

(Commercial dry clean cycle)

Direction	%Change
Warp	-0.6 %
Weft	-1.1 %

Dimensional Change to Free Steam (wira)

BS 4323: 1979

Direction	%Change
Warp	-0.5 %
Weft	-0.5 %

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Bow & Skewness ISO 13015: 2013	
Direction	
Bow	0.0 %
Skew	0.3 %

Yarn Count ISO 7211-5 Method A	
Sample	Result
	Warp: Nm: 26.7, Ne: 15.7 Weft: Nm: 19.4, Ne: 11.4 Nm: Metric Count Ne: Cotton Count

Formaldehyde Content ISO 14184-1: 2011	
Sample	Result
	Not Detected <16 mg/kg

pH Value ISO 3071: 2005 (withdrawn)	
Sample	Result
	pH 7.30
pH value of Grade 3 water: 7.1	
Temperature of the Grade 3 water: 15.2	

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Seam Slippage BS EN ISO 13936-1: 2004 6mm SO	
Sample	Result
Warp	A 6mm seam opening was not found before a seam breakdown of >20 kg
Weft	A 6mm seam opening was not found before a seam breakdown of >20 kg
Remarks:	

Tearing Strength BS EN ISO 13937-2: 2000	
Sample	Result
Warp	1768 g
Weft	2301 g

Tearing Strength (BS EN ISO 13937-1:2000; Elmendorf Tear)	
Sample	Result
Warp	3289 g
Weft	4187 g

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4. Banned azo dyes

Test Method: Method 1 - EN ISO 14362-1:2017 (Textiles) (Buffer extraction)
 Method 2 - EN ISO 14362-1:2017 (Textiles) (Xylene extraction)
 Method 3 - ISO 17234-1:2020 (Leather)
 Method 4 - EN ISO 14362-3:2017 (Textile, 4-aminoazobenzene confirmation)
 Method 5 - ISO 17234-2:2011 (Leather, 4-aminoazobenzene confirmation)

Test Results:

ID	Test Parameter	A22 Confirmation Method No.				Result
		Material No.	Test No.	Method No.	Method 1	
		M001	T001-1	Method 1	–	
		Method 1	Method 1	Method 1	Method 1	
A1	4-Aminobiphenyl	92-67-1	mg/kg	5	30	n.d.
A2	Benzidine	92-87-5	mg/kg	5	30	n.d.
A3	4-Chloro-o-toluidine	95-69-2	mg/kg	5	30	n.d.
A4	2-Naphthylamine	91-59-8	mg/kg	5	30	n.d.
A5*	o-Aminoazotoluene	97-56-3	mg/kg	5	30	n.d.
A6*	5-nitro-o-toluidine / 2-Amino-4-nitrotoluene	99-55-8	mg/kg	5	30	n.d.
A7	4-Chloroaniline	106-47-8	mg/kg	5	30	n.d.
A8	4-methoxy-m-phenylenediamine / 2,4-Diaminoanisole	615-05-4	mg/kg	5	30	n.d.
A9	4,4'-Diaminodiphenylmethane	101-77-9	mg/kg	5	30	n.d.
A10	3,3'-Dichlorobenzidine	91-94-1	mg/kg	5	30	n.d.
A11	3,3'-Dimethoxybenzidine	119-90-4	mg/kg	5	30	n.d.
A12	3,3'-Dimethylbenzidine	119-93-7	mg/kg	5	30	n.d.
A13	4,4'-methylenedi-o-toluidine / 3,3'-Dimethyl-4,4'-diaminodiphenylmethane	838-88-0	mg/kg	5	30	n.d.
A14	p-Cresidine	120-71-8	mg/kg	5	30	n.d.
A15	4,4'-Methylene-bis-(2-chloroaniline)	101-14-4	mg/kg	5	30	n.d.
A16	4,4'-Oxydianiline	101-80-4	mg/kg	5	30	n.d.
A17	4,4'-Thiodianiline	139-65-1	mg/kg	5	30	n.d.
A18	o-Toluidine	95-53-4	mg/kg	5	30	n.d.
A19	4-methyl-m-phenylenediamine / 2,4-Toluylenediamine	95-80-7	mg/kg	5	30	n.d.
A20	2,4,5-Trimethylaniline	137-17-7	mg/kg	5	30	n.d.
A21	O-Anisidine	90-04-0	mg/kg	5	30	n.d.
A22**	4-Aminoazobenzene	60-09-3	mg/kg	5	30	n.d.
A23^	2,4-xylidine	95-68-1	mg/kg	5	30	n.d.
A24^	2,6-xylidine	87-62-7	mg/kg	5	30	n.d.
*2	2-Naphthyl-ammoniumacetate	553-00-4	mg/kg	5	30	n.d.
A26	4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	n.d.
A25	4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	n.d.
A27	4-Methoxy-m-phenylene diammmonium sulphate	39156-41-7	mg/kg	5	30	n.d.
A28	2,4,5-trimethylaniline hydrochloride	21436-97-5	mg/kg	5	30	n.d.

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Remark:

- * The CAS-number 97-56-3 (A5) and 99-55-8 (A6) are further reduced to CAS-number 95-53-4 (A18) and 95-80-7 (A19).
- ** Azo colorants that are able to form 4-aminoazobenzene (A22) CAS-number 60-09-3, generate under the condition of this method Aniline (CAS-number 62-53-3) and 1,4-phenylenediamine (CAS-number 106-50-3.)
- *** Azo colorants that are able to form 4-aminoazobenzene (A22), is confirmed by EN ISO 14362-3:2017 / ISO 17234-2:2011.
- **** Azo colorants are detected & quantified by GC/MS and confirmed by HPLC/DAD or HPLC/MSMS.

-End of Test Report-

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

Sample Description	:	Medium Weight Moleskin
Customer	:	Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF
Product type	:	Apparel M25 100% Cotton 330 gsm ²
PO Number	:	12307-1A
Colour	:	Camel / 207
Contact person	:	Stephen Newham, Joshua Barker-Lockwood

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

* * * *

Sample Receiving Date : 22nd January 2025

Testing Period : 22nd January 2025 – 11th February 2025

Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property

Colour Fastness to Washing	Data
Colour Fastness to Dry Cleaning	Data
Colour Fastness to Perspiration	Data
Colour Fastness to Water	Data
Colour Fastness to Light*	Data
Colour Fastness to Hot Pressing*	Data
Colour Fastness to Rubbing	Data

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

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Signed for and on behalf of
TÜV Rheinland UK LTD

Christopher

Clarke

Digitally signed by

Christopher Clarke

Date: 2025.02.11 12:03:39 Z

Chris Clarke

Laboratory Supervisor



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Results:
Colour Fastness to Washing

Washing Condition: A2S, 30°C (Deviation) With ECE(B) + Sodium Perborate, 10 Steel Balls.

Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
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 bad and 5 is good

Colour Fastness to Water

BS EN ISO 105 E01: 2013

Sample	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
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 bad and 5 is good

Colour Fastness to Rubbing

BS EN ISO 105 X12: 2016

Sample	Result			
	Warp		Weft	
	Dry: 4-5	Wet: 4-5	Dry: 4-5	Wet: 4-5
Atmospheric Conditions: 65% RH, 20°C				
Conditioning time of sample and rubbing cloth: 4 Hours				

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Colour Fastness to Light
 BS EN ISO 105 B02 Method 3: 2013

Sample	
	>4

Colour Fastness to Hot Pressing
 BS EN ISO 105 X11 @ 150°C: 1994

Sample	
Sample	Immediately After Testing Colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5 After Conditioning Colour Change Dry: 4-5 Damp: 4-5 Wet: 4-5 Colour Change Damp: 4-5 Wet: 3-4

Colour Fastness to Dry Cleaning
 BS EN ISO 105-D01: 2010

	Result
Colour Change	4-5
Self-Staining	-
Colour Staining	
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 bad and 5 is good

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Colour Fastness To Perspiration BS EN ISO 105-E04: 2013		
Sample	Result	
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining	-	-
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	4-5	4-5
Polyamide	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 the 5-step scale of 1 to 5, where 1 is bad and 5 is good

-End of Test Report-

Test Report	No. 28515597	Date: 14 th February 2025	Page 1 of 8
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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	Mediumweight Moleskin
Customer	:	Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF
Product type	:	Apparel M25 100% Cotton 330 g/m ²
PO Number	:	12646-2A
Colour	:	Brown / 103
Contact person	:	Stephen Newham, Joshua Barker-Lockwood

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

* * * *

Sample Receiving Date : 3rd February 2025

Testing Period : 3rd February 2025 – 14th February 2025

Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

Test Property – REACH Annex XVII

Aromatic Amine Salts*	Pass
Dimethyl Fumarate*	Pass
Migration of Heavy Metals*	Pass
Flame Retardants*	Pass
AP + APEO (Alkylphenols, Alkylphenol Ethoxylates)*	Pass
Quinoline*	Pass
Polycyclic Aromatic Hydrocarbons (PAHs)*	Pass
Pentachlorophenol (PCP) Content*	Pass
Per – and Polyfluoroalkyl Substances (PFAS)*	Pass
Organotin Compounds Content*	Pass

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

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**Signed for and on behalf of
TÜV Rheinland UK LTD**

**Christopher
Clarke**

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Date: 2025.02.14 09:46:09 Z

**Chris Clarke
Laboratory Supervisor**

Test result is drawn according to the kind and extent of tests performed.

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No. 28515597

 Date: 14th February 2025

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Material No.	Material	Color	Location
M001	Textile	Brown	Woven base

Results:
1. Aromatic Amine Salts

Test Method: DIN EN ISO 14362-1:2017
 DIN EN ISO 14362-3:2017
 Analyzed by GC-MSD

Test Result:

Test Parameter	CAS NO	Unit	RL	Test No.	T001
				Material No.	M001
4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	Regulatory Requirement	n.d.
4-methoxy-m-phenylene diammonium sulphate; 2,4-diaminoanisole sulphate	39156-41-7	mg/kg	5	30	n.d.
2,4,5-trimethylaniline hydrochloride	21436-97-5	mg/kg	5	30	n.d.
2-Naphthyl-ammoniumacetate	553-00-4	mg/kg	5	30	n.d.
Conclusion				-	

Abbreviation: n.d. = Not Detected (< Reporting Limit)

RL = Reporting Limit

mg/kg = milligram per kilogram

2. Dimethyl fumarate (CAS No.624-49-7)

Test Method: Organic solvent extraction, GCMS analysis

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Dimethyl fumarate	mg/kg	0.025	0.1	n.d.

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

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3. Migration of Heavy Metals

Test Method: All materials except leather: DIN EN 16711-2:2016
Leather: DIN EN ISO 17072-1:2019

Test Result:

			Test No.	T001
			Material No.	M001
Test Parameter	Unit	RL	Customer Requirement	Result
Arsenic (As)	mg/kg	0.1	< 1 mg/kg each	n.d.
Cadmium (Cd)	mg/kg	0.05	< 1 mg/kg each	n.d.
Chromium (Cr)	mg/kg	0.5	< 1 mg/kg each	n.d.
Lead (Pb)	mg/kg	0.2	< 1 mg/kg each	n.d.
Conclusion				Pass

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

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4. Flame Retardants

Test Method: 1. Organic solvent extraction, GCMS/LCMSMS
 2. Acid digestion, analyzed by ICP-MS

					Test No.
					Material No.
Test Parameter	CAS No.	Unit	RL	Formulation Limit	Test Result
Octabromodiphenyl ether (OctaBDE)	32536-52-0	mg/kg	100	< 1000 mg/kg	n.d.
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	mg/kg	100	< 1000 mg/kg	n.d.
Tris(2,3,-dibromopropyl)-phosphate (TRIS)	126-72-7	mg/kg	100	not used	n.d.
Decabromodiphenyl ether (DecaBDE)	1163-19-5	mg/kg	100	< 1000 mg/kg	n.d.
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/kg	100	< 500 mg/kg	n.d.
Tris(1-aziridinyl)phosphineoxide (TEPA)	545-55-1	mg/kg	100	not used	n.d.
Polybromobiphenyls (PBB)	59536-65-1	mg/kg	100	not used	n.d.
Hexabromocyclododecane(HBCDD)	3194-55-6	mg/kg	100	< 100 mg/kg	n.d.
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	mg/kg	100	< 500 mg/kg	n.d.
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	mg/kg	100	< 500 mg/kg	n.d.
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	mg/kg	100	< 500 mg/kg	n.d.

Abbreviation: < = less than

RL = Reporting Limit

ppm = part per million

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5.AP + APEO (Alkylphenols, Alkylphenol Ethoxylates)

Test Method: ISO 18254-1:2016

NP and OP: Organic solvent extraction, GCMS

NPEO and OPEO: Organic solvent extraction, LC-MS

Test Result:

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Nonylphenols (NP)	mg/kg	5	-	n.d.
		Octylphenols (OP)	mg/kg	5	-	n.d.
		Nonylphenolethoxylates (NPEO)	mg/kg	20	< 100 mg/kg	n.d.
		Octylphenolethoxylates (OPEO)	mg/kg	20	< 100 mg/kg	n.d.

Abbreviation: n.d. = not detected (< Reporting Limit)

RL = Reporting Limit

mg/kg = milligram per kilogram

NA = Not Applicable

6.Quinoline

Test Method: Ref. to DIN 54231:2022

Test Result:

Test No.	Material No.	Test Parameter	CAS No.	Unit	RL	Regulatory Requirement	Test Result	Conclusion
T001	M001	Quinoline	91-22-5	mg/kg	10	50	n.d.	Pass

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilograms

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7. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: AfPS GS 2019:01

Test Result:

					Test No.	T001
					Material No.	M001
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result	
Benzo[a]anthracene	56-55-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[a]pyrene(BaP)	50-32-8	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[b]fluoranthene	205-99-2	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[k]fluoranthene	207-08-9	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[j]fluoranthene	205-82-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Benzo[e]pyrene	192-97-2	mg/kg	0.2	< 1 mg/kg	n.d.	
Chrysene	218-01-9	mg/kg	0.2	< 1 mg/kg	n.d.	
Dibenzo[a,h]anthracene	53-70-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Naphthalene	91-20-3	mg/kg	0.2	< 1 mg/kg	n.d.	
Anthracene	120-12-7	mg/kg	0.2		n.d.	
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2		n.d.	
Fluoranthene	206-44-0	mg/kg	0.2	Sum 10	n.d.	
Indeno[1,2,3-cd]pyrene	193-39-5	mg/kg	0.2		n.d.	
Phenanthrene	85-01-8	mg/kg	0.2		n.d.	
Pyrene	129-00-0	mg/kg	0.2		n.d.	

Abbreviation: < = less than

RL = Reporting Limit

NA = Not Applicable

mg/kg = milligram per kilogram

8. Pentachlorophenol (PCP) Content

Test Method: Ref. to 64 LFGB B82.02-8:2001

Test result

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Test Result
T001	M001	Pentachlorophenol (PCP)	mg/kg	0.1	≤ 5 mg/kg	n.d.

Abbreviation: < = less than

RL = Reporting Limit

mg/kg = milligram per kilogram

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9.Per-and polyfluoroalkyl substances(PFAS)

Test Method: Reference EN 17681-1:2022/EN 17681-2:2022, determination by CI-GCMS, GC-MSMS and LC-MSMS.

Test Result:

Test Parameter	CAS NO	Unit	RL	Test No.	T001
				Material No.	M001
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	µg/m ²	1	< 1 µg/m ²	n.d.
Perfluorooctane sulfonamide (PFOSA)	754-91-6	µg/m ²	1	< 1 µg/m ²	n.d.
Perfluorooctanoic acid (PFOA)	335-67-1	µg/m ²	1	< 1 µg/m ²	n.d.
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	mg/kg	1	< 1 µg/m ²	n.d.
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	mg/kg	1	< 1 µg/m ²	n.d.
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	mg/kg	1	< 1 µg/m ²	n.d.
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	mg/kg	1	< 1 µg/m ²	n.d.
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	mg/kg	1	< 1 µg/m ²	n.d.
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	mg/kg	1	< 1 µg/m ²	n.d.
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	mg/kg	1	< 1 µg/m ²	n.d.
Perfluorocylethanol 8:2 (8:2 FTOH)	678-39-7	mg/kg	1	< 1 µg/m ²	n.d.
Conclusion					Pass

Abbreviation: < = Less than

RL = Reporting Limit

mg/kg = milligram per kilogram

µg/m² = microgram per square metre

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10.Organotin compounds content

Test Method: Organic solvent extraction, GCMS
 Ref. to ISO/TS 16179:2012

Test Parameter	Unit	RL	Test No.	T001
			Material No.	M001
TBT(Tributyltin) by weight of tin	%	0.01	< 0.1 %	n.d.
TPT(Triphenyltin) by weight of tin	%	0.01	< 0.1 %	n.d.
TOT(Trioctyltin) by weight of tin	%	0.01	< 0.1 %	n.d.
TCyT(Tricyclohexyltin) by weight of tin	%	0.01	< 0.1 %	n.d.
TPrT(Tripropyltin) by weight of tin	%	0.01	< 0.1 %	n.d.
Sum of Tin of tri-substituted organotins	%	NA	< 0.1 %	n.d.
DBT(Dibutyltin) by weight of tin	%	0.01	< 0.1 %	n.d.
DOT(Dioctyltin) by weight of tin	%	0.01	< 0.1 %	n.d.

Abbreviation: < = less than

RL = Reporting Limit

% = percentage

NA = Not Applicable

-End of Test Report-



**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

72251640406

06-25

TEST REPORT

LAB LOCATION:TURKEY

SERVICE TYPE: Regular

LAB NUMBER: (7225)164-0406

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: 12645

SAMPLE DESCRIPTION

: Woven Panel Sample (M25)
(Claimed Fiber Content: 100% Cotton)
(Claimed Fabric Weight: /)

COLOUR

: TAUPE 2659

**SUBMITTED CARE
INSTRUCTION:**



REASON FOR REVISION

: /



Date Out
(17/06/2025)

Aysegul Karayilan
Senior Client Team Lead

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

C/N/ ET/SD

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72251640406
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SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA
Flammability Of Clothing Textiles*	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.

REMARK:

I. If there are questions or concerns on this report, please contact:
II. The test method(s) and requirement(s) used are based on vendor's submitted test method(s) and requirement(s).

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C/N/ET/SD

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Issue Date: 05.06.2012
Rev. No / Date: 33 / 05.08.2024

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Controlled by: Sevdenur Can
Approved by: Hasan Altingul



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06-25

ORIGINAL
(SAMPLE IMAGE)



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<u>TEST RESULTS</u>	<u>REQUIREMENTS</u>
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FLAMMABILITY OF CLOTHING TEXTILES (16 CFR 1610)

SAMPLE DESCRIPTION: WOVEN FABRIC

FIBER CONTENT: /

FABRIC WEIGHT: /

FABRIC SURFACE: RAISED FIBER SURFACE

DIRECTION TO BE TESTED: FACE / LENGTHWISE
(FROM PRELIMINARY TEST)

AS RECEIVED

TIME OF FLAME SPREAD (S)	BURN CODE	TIME OF FLAME SPREAD (S)	BURN CODE
1 /	1 SFPOI	P1 /	P1 SFPOI
2 /	2 SFPOI	P2 /	P2 SFPOI
3 /	3 SFPOI	P3 /	P3 SFPOI
4 /	4 SFPOI	P4 /	P4 SFPOI
5 /	5 SFPOI	P5 /	P5 SFPOI

AVG. ____ SECONDS FOR# ____ SPECIMENS

6 /	6 /	P6 /	P6 /
7 /	7 /	P7 /	P7 /
8 /	8 /	P8 /	P8 /
9 /	9 /	P9 /	P9 /
10 /	10 /	P10 /	P10 /

AVG. ____ SECONDS FOR# ____ SPECIMENS

DNI DID NOT IGNITE.

COMMENTS: PASS CLASS 1, NORMAL FLAMMABILITY OF COMMERCIAL STANDARD 16 CFR 1610, FORMERLY 191-53 OF UNITED STATES FLAMMABILITY FABRIC ACT.

REMARK: DUE TO THE OVERALL SIZE OF THE PRINT FULL TESTING COULD NOT BE PERFORMED ON THE PRINT ALONE. DATA INCLUDES COMPOSITE TEST RESULTS OF THE BASE FABRIC AND PRINT.

**Indicates does not meet the requirements

APPENDIX A -LIST OF MEASUREMENT UNCERTAINTIES

TEST NAME	STANDARD NAME	MEASUREMENT UNCERTAINTY
FLAMMABILITY OF CLOTHING TEXTILES	16 CFR 1610	±7,9 %

-End of Report-

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