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M Chapman & Sons Textiles Ltd
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United Kingdom
BB11 5PW

Technical Document		Article-	Montecarlo	Release Date-	01 February 2025
Description-		Linen	Composition-	100% Linen	
Applications-		Apparel			
Weight (g/m2)		265		UNI 5114	
Weight Linear (g/m)		398			
Warp Yarn per Inch		35		UNI EN 1049/2	
Weft Yarn per Inch		34			
Warp Yarn Count		1/12s		ISO 7211/5	
Weft Yarn Count		1/12s			
Minimum Usable Width		146cm		UNI EN 1773	
Customs Tariff Code (HS)		53091900			
County of Origin		Lithuania			
Yarn Origin		France			
Weaving Origin		Lithuania			
Dyeing/Finishing Origin		Lithuania			
Sample/Bulk Leadtime (Weeks)		Stock Supported			
Manufacturing Features-					
Piece Dye	Jig Dyeing Method		Reactive Dyestuffs		
Care Instructions-					
Dimensional Stability-					
Domestic Washing	Warp	+/- 5.5%		ISO 6330:2021	
	Weft	+/- 5.5%			
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	80kg		UNI EN ISO 13934-1	
	Weft	80kg			
Tear Strength	Warp	6000g		UNI EN ISO 13927-2	
	Weft	7400g			
Seam Slippage (6mm)	Warp	> 20kg		UNI EN ISO 13935-1	
	Weft	> 20kg			
Abrasion Resistance (9kPa)	Face	Grade 4/5 @ 20,000 Rubs		UNI EN ISO 12947-2	
Pilling (2000 Revolutions)	Face	Grade 3/4 @ 20,000 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
Dry Ironing	UNI EN ISO 105-X11	3	3	3	3	3	3
Wet Ironing	UNI EN ISO 105-X11	3	3	3	3	3	3
Acid Pers	UNI EN ISO 105-E04	3	3	3	3	3	3
Alkaline Pers	UNI EN ISO 105-E04	3	3	3	3	3	3
Water	UNI EN ISO 105-E01	3	3	3	3	3	3
Washing	UNI EN ISO 105-C06	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
Dry Ironing	UNI EN ISO 105-X11	4	4	4	4	4	4
Wet Ironing	UNI EN ISO 105-X11	4	4	4	4	4	4
Acid Pers	UNI EN ISO 105-E04	4	4	4	4	4	4
Alkaline Pers	UNI EN ISO 105-E04	4	4	4	4	4	4
Water	UNI EN ISO 105-E01	4	4	4	4	4	4
Washing	UNI EN ISO 105-C06	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 and Ecotoxicological-

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
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Test Report	No. 28515563	Date: 11 th February 2025	Page 1 of 9
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Sample Description : Lightweight Linen
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Montecarlo 100% Linen 185 g/m²
PO Number : 13290-1AD
Colour : Cocoa / 2730
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

 Digitally signed by
 Christopher Clarke
 Date: 2025.02.11 10:04:54
 Z
Chris Clarke
Laboratory Supervisor



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Softlines

Test Report

No. 28515563

 Date: 11th February 2025

Page 2 of 9

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	4-5
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			
	Dry: 4-5	Dry: 4-5		
	Wet: 4	% Soak: 100	Wet: 4	% Soak: 100

Atmospheric Conditions: 65% RH, 20°C

Conditioning time of sample and rubbing cloth: 4 Hours

Test Report

No. 28515563

 Date: 11th February 2025

Page 3 of 9

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 Staining 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	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

Test Report	No. 28515563	Date: 11 th February 2025	Page 4 of 9
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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
Two Thread Breakdown	20,000	22,000	22,000
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		

Test Report	No. 28515563	Date: 11 th February 2025	Page 5 of 9
--------------------	--------------	--------------------------------------	-------------

Tensile Strength (BS EN ISO 13934-1:2013)	
Direction	Result
Warp	80.9 kg
Weft	83.0 kg

Dimensional Change After Washing BS EN ISO 6330: 2012 3N @ 30°C Flat Dry	
Direction	%Change
Warp	-5.3 %
Weft	-5.2 %

Dimensional Change After Commercial Dry Cleaning (Commercial dry clean cycle)	
Direction	%Change
Warp	-1.4 %
Weft	0.0 %

Dimensional Change to Free Steam (wira) BS 4323: 1979	
Direction	%Change
Warp	-0.5 %
Weft	-0.5 %

Softlines

Test Report	No. 28515563	Date: 11 th February 2025	Page 6 of 9
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Bow & Skewness
 ISO 13015: 2013

Direction	
Bow	0.3 %
Skew	1.1 %

Yarn Count
 ISO 7211-5 Method A

Sample	Result
	Warp: Nm: 16.0, Ne: 9.4 Weft: Nm: 11.5, Ne: 6.8 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 7.18
pH value of Grade 3 water: 7.1	
Temperature of the Grade 3 water: 17.3	

Test Report	No. 28515563	Date: 11 th February 2025	Page 7 of 9
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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	6030 g
Weft	7542 g

Tearing Strength

(BS EN ISO 13937-1:2000; Elmendorf Tear)

Sample	Result
Warp	6356 g
Weft	A tear did not occur >6526 g

Test Report

No. 28515563

Date: 11th February 2025

Page 8 of 9

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

Test Report	No. 28515563	Date: 11 th February 2025	Page 9 of 9
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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-

Test Report	No. 28515561	Date: 11 th February 2025	Page 1 of 4
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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description	:	Lightweight Linen
Customer	:	Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF
Product type	:	Apparel Monte Carlo 100% Linen 265 gsm ²
PO Number	:	13250-13AL
Colour	:	Buff / 2728
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
 Chris Clarke
 Laboratory Supervisor

Digitally signed by
 Christopher Clarke
 Date: 2025.02.11 11:42:29 Z



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Test Report	No. 28515561	Date: 11 th February 2025	Page 2 of 4
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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				

Test Report	No. 28515561	Date: 11 th February 2025	Page 3 of 4
--------------------	--------------	--------------------------------------	-------------

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: 4-5

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

Test Report	No. 28515561	Date: 11 th February 2025	Page 4 of 4
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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. 28515604	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	:	Linen
Customer	:	Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF
Product type	:	Apparel Monte Carlo 100% Linen 265 g/m ²
PO Number	:	11332-5
Colour	:	Purple / 2738
Contact person	:	Stephen Newham, Joshua Barker-Lockwood

Test Performed	:	Selected test(s) as requested by applicant
*	*	*
Sample Receiving Date	:	3 rd February 2025
Testing Period	:	3 rd February 2025 – 14 th 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
 Digitally signed by
 Christopher Clarke
 Date: 2025.02.14
 09:12:30 Z

Chris Clarke
 Laboratory Supervisor

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

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Test Report

No. 28515604

Date: 14th February 2025

Page 2 of 8

Material No.	Material	Color	Location
M001	Textile	Purple	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	30	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

Test Report	No. 28515604	Date: 14 th February 2025	Page 3 of 8
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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

Test Report

No. 28515604

 Date: 14th February 2025

Page 4 of 8

4. Flame Retardants

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

Test Parameter	CAS No.	Unit	RL	Test No.	T001
				Material No.	M001
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

Test Report	No. 28515604	Date: 14 th February 2025	Page 5 of 8
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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

Test Report	No. 28515604	Date: 14 th February 2025	Page 6 of 8
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7. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: AfPS GS 2019:01

Test Result:

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

Test Report

No. 28515604

 Date: 14th February 2025

Page 7 of 8

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 No.	T001
					Material No.	M001
Test Parameter	CAS NO	Unit	RL	Customer's requirement	Result	
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

Test Report	No. 28515604	Date: 14 th February 2025	Page 8 of 8
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10.Organotin compounds content

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

Test No.			T001	
Material No.			M001	
Test Parameter	Unit	RL	Regulatory Requirement	Result
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-



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BUREAU VERITAS CONSUMER PRODUCTS
SERVICES**

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Test
TS EN ISO/IEC 17025

AB-0505-T

AB-0505-T

72252870328

10-25

TEST REPORT

LAB LOCATION: TURKEY

SERVICE TYPE: Regular

LAB NUMBER: (7225)287-0328

THE DATE OF RECEIPT OF TEST ITEM: October 14, 2025

START DATE FOR TESTING: October 14, 2025

DATE END OF TEST: October 16, 2025

NUMBER OF WORKING DAYS: 3.0

CUSTOMER NAME /

: M CHAPMAN&SONS LTD

ADDRESS

(Address: Chapman Works, Manchester Road, Dunnockshaw, Bumley

CONTACT NAME

BB121 5PW)

(Attn: Paige Newham-Foulds)

BUYER

: /

SUPPLIER REFERENCE

: Style Number: /

PO Number: 13604

Unique Product Code: 2741

SAMPLE DESCRIPTION

: Woven Fabric Sample (Montecarlo)

(Claimed Fiber Content: 100% Linen)

(Claimed Fabric Weight: /)

COLOUR

: Stone

**SUBMITTED CARE
INSTRUCTION:**



REASON FOR REVISION

: /



Date Out
(16/10/2025)

Ali Payalan
Senior Client Team Lead

Hasan Altingul
Deputy General Manager Operations
(16/10/2025)

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10-25

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.



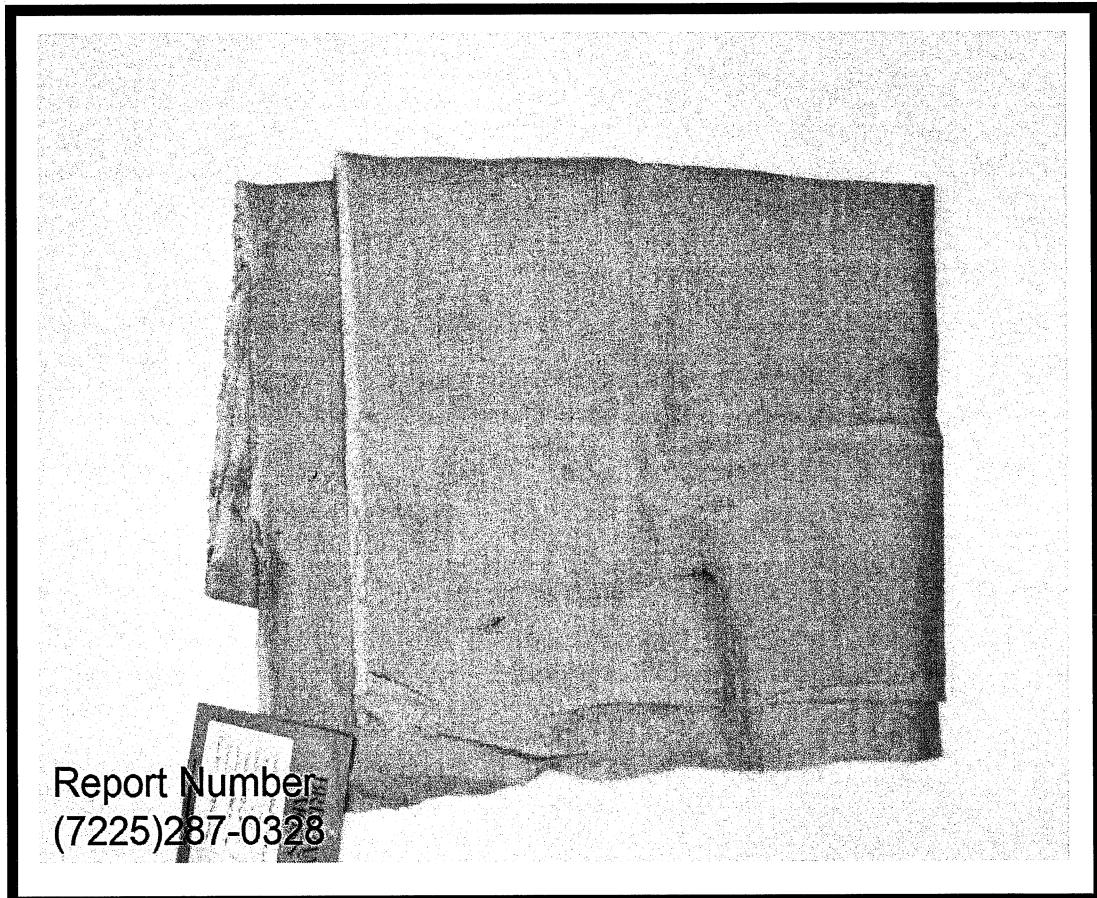
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ORIGINAL
(SAMPLE IMAGE)





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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: 7.4 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

**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-