








**BRISBANE
MOSS**

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Technical Document		Article-	52		Release Date-	01 October 2025	
Description-	Light Weight Moleskin			Composition-	100% Cotton		
Applications-	Apparel						
Weight (g/m2)	265			UNI 5114			
Weight Linear (g/m)	398						
Warp Yarn per Inch	57			UNI EN 1049/2			
Weft Yarn per Inch	92						
Warp Yarn Count	16s			ISO 7211/5			
Weft Yarn Count	14s						
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	Stock Supported						
Manufacturing Features-							
Piece Dye	Jig Dyeing Method			Reactive Dyestuffs			
Care Instructions-						UNI EN ISO 3758	
<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	70kg	UNI EN ISO 13934-1				
	Weft	85kg					
Tear Strength	Warp	4000g	UNI EN ISO 13927-2				
	Weft	3200g					
Seam Slippage (6mm)	Warp	18kg	UNI EN ISO 13935-1				
	Weft	17kg					
Abrasion Resistance (9kPa)	Face	Grade 4/5 @ 30,000 Rubs		UNI EN ISO 12947-2			
Pilling (2000 Revolutions)	Face	Grade 4/5		UNI EN ISO 12945-2			
Martindale	Face	Grade 4/5		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 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		
Better Cotton Available							1030682-1		

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Test Report	No. 28515404	Date: 26th November 2024	Page 1 of 9
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Sample Description : Lightweight Moleskin
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Fabric 52100% Cotton 265 gsm
PO Number : 13310-29C
Colour : Dk Olive / 2077
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 15th November 2024
 Testing Period : 15th November 2024 – 26th November 2024
 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	Mass per Unit Area	Data
Tensile Strength	Data	Tear Strength - Elmandorf	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: 2024.11.27 09:56:19 Z

Chris Clarke
Laboratory Supervisor



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Test Report	No. 28515404	Date: 26th November 2024	Page 2 of 9
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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	4-5
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		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. 28515404	Date: 26 th November 2024	Page 3 of 9
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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 Staining Damp: 4 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. 28515404	Date: 26th November 2024	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
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: 4-5 F: 2-3 M: 4-5
P=Pilling F-Fuzzing M=Matting	



Test Report	No. 28515404	Date: 26 th November 2024	Page 5 of 9
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Tensile Strength (BS EN ISO 13934-1:2013)	
Direction	Result
Warp	78.2 kg
Weft	92.5 kg

Dimensional Change After Washing BS EN ISO 6330: 2012 3N @ 30°C Flat Dry	
Direction	%Change
Warp	-1.8
Weft	-1.5

Dimensional Change After Commercial Dry Cleaning (Commercial dry clean cycle)	
Direction	%Change
Warp	-0.7
Weft	0.0

Dimensional Change to Free Steam (wira) BS 4323: 1979	
Direction	%Change
Warp	-0.5 %
Weft	-1.0 %



Test Report	No. 28515404	Date: 26th November 2024	Page 6 of 9
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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: 27.7, Ne: 16.3 Weft: Nm: 25.2, Ne: 14.8 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 7.28
pH value of Grade 3 water: 7.1	
Temperature of the Grade 3 water: 19.4	



Test Report	No. 28515404	Date: 26th November 2024	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 Seam breakdown > 20.0Kg
Weft	19.8 kg
Remarks:	

Tearing Strength

BS EN ISO 13937-2: 2000

Sample	Result
Warp	4287 g
Weft	3568 g

Fabric Weight Per Unit Area

(BS EN 12127:1998)

Sample	Result (g/m ²)
	291.6 g/m ² Claimed: 265 g/m ²
g/m ² - grams per square meter	

Tearing Strength

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

Sample	Result
Warp	5090 g
Weft	3916 g

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:

		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'-methylenedi-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



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Test Report	No. 28515404	Date: 26th November 2024	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. 28515405	Date: 25th November 2024	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 Moleskin
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel 52 100% Cotton 265 gsm
PO Number : 13144-3A
Colour : Camel / 207
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 Sample Receiving Date : 15th November 2024
 Testing Period : 15th November 2024 – 25th November 2024
 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

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Date: 2024.11.25 14:30:59 Z

Chris Clarke
Laboratory Supervisor



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Test Report	No. 28515405	Date: 25th November 2024	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. 28515405	Date: 25th November 2024	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

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. 28515405	Date: 25th November 2024	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-



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Test Report	No. 28515598	Date: 14th 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 : Lightweight Moleskin
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel 52 100% Cotton 265 g/m²
PO Number : 12770-10A
Colour : DK Navy / 986
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

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Clarke

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Chris Clarke
Laboratory Supervisor

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Test Report	No. 28515598	Date: 14th February 2025	Page 2 of 8
--------------------	---------------------	--	--------------------

Material No.	Material	Color	Location
M001	Textile	Navy	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 No.					T001
Material No.					M001
Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result
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. 28515598	Date: 14th 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. 28515598	Date: 14th February 2025	Page 4 of 8
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4. Flame Retardants

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

Test No.					T001
Material No.					M001
Test Parameter	CAS No.	Unit	RL	Formulation Limit	Test Result
Octabromodiphenyl ether (OctaBDE)	32536-52-0	mg/k g	100	< 1000 mg/kg	n.d.
Tris(2-chloroethyl)phosphate (TCEP)	115-96-8	mg/k g	100	< 1000 mg/kg	n.d.
Tris(2,3,-dibromopropyl)-phosphate (TRIS)	126-72-7	mg/k g	100	not used	n.d.
Decabromodiphenyl ether (DecaBDE)	1163-19-5	mg/k g	100	< 1000 mg/kg	n.d.
Pentabromodiphenyl ether (PentaBDE)	32534-81-9	mg/k g	100	< 500 mg/kg	n.d.
Tris(1-aziridinyl)phosphineoxide (TEPA)	545-55-1	mg/k g	100	not used	n.d.
Polybromobiphenyls (PBB)	59536-65-1	mg/k g	100	not used	n.d.
Hexabromocyclododecane(HBCDD)	3194-55-6	mg/k g	100	< 100 mg/kg	n.d.
Heptabromodiphenyl ether (HeptaBDE)	68928-80-3	mg/k g	100	< 500 mg/kg	n.d.
Hexabromodiphenyl ether (HexaBDE)	36483-60-0	mg/k g	100	< 500 mg/kg	n.d.
Tetrabromodiphenyl ether (TetraBDE)	40088-47-9	mg/k g	100	< 500 mg/kg	n.d.

Abbreviation: < = less than
RL = Reporting Limit
ppm = part per million

Test Report	No. 28515598	Date: 14th 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.
		Nonylphenoethoxylates (NPEO)	mg/kg	20	< 100 mg/kg	n.d.
		Octylphenoethoxylates (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. 28515598	Date: 14th February 2025	Page 6 of 8
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7. Polycyclic aromatic hydrocarbons (PAHs)

Test Method: AfPS GS 2019:01

Test Result:

Test No. T001					T001
Material No. M001					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	Sum 10	n.d.
Benzo[g,h,i]perylene	191-24-2	mg/kg	0.2		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

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 (PFOA)	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. 28515598	Date: 14th 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(Tripopyltin) 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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Test
TS EN ISO/IEC 17025
AB-0505-T

AB-0505-T

72252870335

10-25

TEST REPORT

LAB LOCATION: TURKEY

SERVICE TYPE: Regular

LAB NUMBER: (7225)287-0335

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 /
ADDRESS
CONTACT NAME**

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

BUYER

: /

SUPPLIER REFERENCE

: Style Number: /
PO Number: 13875
Unique Product Code: 3213

SAMPLE DESCRIPTION

: Woven Fabric Sample (52-Moleskin)
(Claimed Fiber Content: 100% Cotton)
(Claimed Fabric Weight: /)

COLOUR

: Black

**SUBMITTED CARE
INSTRUCTION:**

: /

REASON FOR REVISION

: /



Date Out
(16/10/2025)

Alev Meltem
Senior Client Team Lead

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

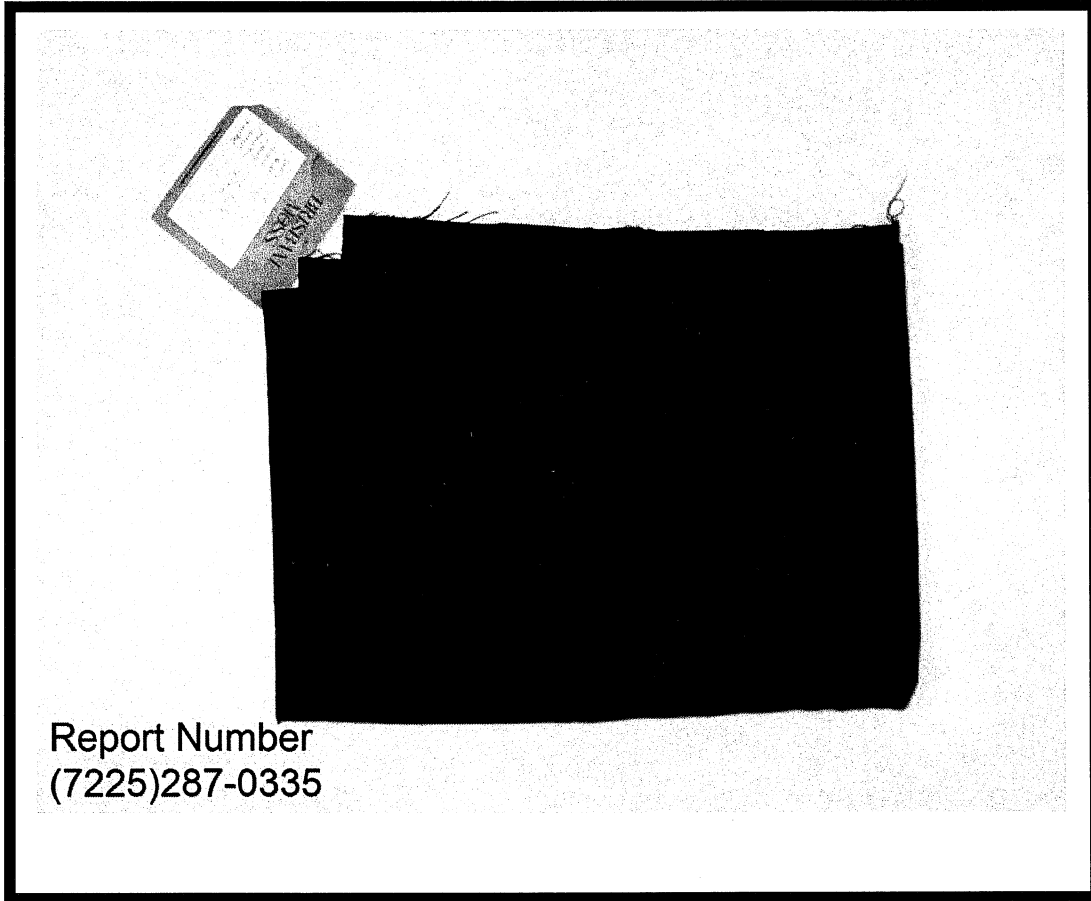
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SUMMARY OF TEST RESULTS

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.

ORIGINAL
(SAMPLE IMAGE)



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

SAMPLE DESCRIPTION: WOVEN FABRIC

FIBER CONTENT: 100% COTTON

FABRIC WEIGHT: /

FABRIC SURFACE: RAISED FIBER SURFACE

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

AS RECEIVED
AFTER REFURBISHING

TIME OF FLAME
SPREAD (S)

BURN CODE

TIME OF FLAME
SPREAD (S)

BURN CODE

1	/	1	SF POI	P1	/	P1	SF POI
2	/	2	SF POI	P2	/	P2	SF POI
3	/	3	SF POI	P3	/	P3	SF POI
4	/	4	SF POI	P4	/	P4	SF POI
5	/	5	SF POI	P5	/	P5	SF POI

AVG. ___/___ SECONDS FOR# ___/___ SPECIMENS

AVG. ___/___ SECONDS FOR# ___/___ SPECIMENS

DNI DID NOT IGNITE.

IBE IGNITED, BUT EXTINGUISHED.

SF UC SURFACE FLASH, UNDER THE STOP THREAD, BUT DOES NOT BREAK THE STOP THREAD.

SF PW SURFACE FLASH, PART WAY. NO TIME SHOWN BECAUSE THE SURFACE FLASH DID NOT REACH THE STOP THREAD.

SF POI SURFACE FLASH, AT THE POINT OF IMPINGEMENT ONLY. (EQUIVALENT TO "DID NOT IGNITE" FOR PLAIN SURFACES.)

0.0 SEC. ACTUAL BURN TIME MEASURED AND RECORDED BY THE TIMING DEVICE.

0.0 SF ONLY TIME IN SECONDS, SURFACE FLASH ONLY. NO DAMAGE TO THE BASE FABRIC.

0.0 SFBB TIME IN SECONDS, SURFACE FLASH BASE BURN STARTING AT PLACES OTHER THAN THE POINT OF IMPINGEMENT AS A RESULT OF SURFACE FLASH.

0.0 SFBB POI TIME IN SECONDS, SURFACE FLASH BASE BURN STARTING AT THE POINT OF IMPINGEMENT. THIS RESULT DOES NOT QUALIFY AS A BASE BURN UNDER THE CURRENT INTERPRETATION OF PART OF 16 CFR PART 1610.

0.0 SFBB POI* TIME IN SECONDS, SURFACE FLASH BASE BURN POSSIBLY STARTING AT THE POINT OF IMPINGEMENT. THE ASTERISK (*) IS ACCOMPANIED BY THE FOLLOWING STATEMENT: "UNABLE TO MAKE ABSOLUTE DETERMINATION AS TO SOURCE OF BASE BURNS." THIS STATEMENT IS ADDED TO THE RESULT OF ANY SPECIMEN IF THERE IS A QUESTION AS TO ORIGIN OF THE BASE BURN.

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

**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-