



**BRISBANE
MOSS**

M Chapman & Sons Textiles Ltd
Chapman Works
Manchester Road
Dunnockshaw
Burnley
Lancashire
United Kingdom
BB11 5PW

Tel: 01706 815121
sales@chapmangroup.co.uk
www.chapmangroup.co.uk

Tel: 01706 815121
sales@brisbanemoss.co.uk
www.brisbanemoss.co.uk

Technical Document		Article-	Keats		Release Date-	01 March 2025	
Description-	Twill			Composition-	100% Cotton		
Applications-	Apparel						
Weight (g/m2)		405			UNI 5114		
Weight Linear (g/m)		608					
Warp Yarn per Inch		182			UNI EN 1049/2		
Weft Yarn per Inch		96					
Warp Yarn Count		1/7s			ISO 7211/5		
Weft Yarn Count		1/6s					
Minimum Usable Width		146cm			UNI EN 1773		
Customs Tariff Code (HS)		52093900					
County of Origin		Turkey					
Yarn Origin		USA/Turkey					
Weaving Origin		Turkey					
Dyeing/Finishing Origin		Turkey					
Sample/Bulk Leadtime (Weeks)		Stock Supported					
<u>Manufacturing Features-</u>							
Piece Dye		Jig Dyeing Method		Reactive Dyestuffs			
<u>Care Instructions-</u>						UNI EN ISO 3758	
		    					
<u>Dimensional Stability-</u>							
Domestic Washing		Warp	+/- 3.5%		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%				
<u>Physical Features-</u>							
Tensile Strength		Warp	130kg		UNI EN ISO 13934-1		
		Weft	110kg				
Tear Strength		Warp	3800g		UNI EN ISO 13927-2		
		Weft	5000g				
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 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				

**BRISBANE
MOSS**





**BRISBANE
MOSS**

M Chapman & Sons Textiles Ltd
Chapman Works
Manchester Road
Dunnoekshaw
Burnley
Lancashire
United Kingdom
BB11 5PW

Tel: 01706 815121
sales@chapmangroup.co.uk
www.chapmangroup.co.uk

Tel: 01706 815121
sales@brisbanemoss.co.uk
www.brisbanemoss.co.uk

Colour Fastness-								
		Grade	Change in Colour	Dark Colours				
				Cross Staining				
				Acetate	Cotton	Polyamide	Polyester	Acrylic
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
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		3	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		
Better Cotton Available						1030682-1		
Okeo-Tex Standard 100 Certified						11-52140 Shirley		

**BRISBANE
MOSS**



Test Report	No. 28515716	Date: 25th March 2025	Page 1 of 7
--------------------	---------------------	---	--------------------

Sample Description : Twil
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Fabric Keats 100% Cotton 405 gsm
PO Number : 13446-47RB
Colour : Dk Navy 12T
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 6th March 2025
 Testing Period : 6th March 2025 – 25th March 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		
Colour Fastness to Rubbing	Data	pH Value	Data
Dimensional Stability to Washing	Data	Bow & Skew**	Data
Dimensional Stability to Dry Cleaning**	Data		
Dimensional Stability to Free Steam (wira)*	Data		
Tensile Strength	Data	Tear Strength - Elmendorf	Data

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

**Not UKAS Accredited

Signed for and on behalf of
TÜV Rheinland UK LTD

Digitally signed by
 Christopher Clarke
 Date: 2025.03.25
 11:29:33 Z

Chris Clarke
 Laboratory Supervisor



8400

Test Report	No. 28515716	Date: 25th March 2025	Page 2 of 7
--------------------	---------------------	---	--------------------

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

Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted samples only.

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
	Warp
Dry: 4-5	Dry: 4-5
Wet: 3	Wet: 3
% Soak: 100	% Soak: 100
Atmospheric Conditions: 65% RH, 20°C	
Conditioning time of sample and rubbing cloth: 4 Hours	

Test Report	No. 28515716	Date: 25th March 2025	Page 3 of 7
--------------------	---------------------	---	--------------------

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: 3-4 Wet: 2-3

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. 28515716	Date: 25 th March 2025	Page 4 of 7
--------------------	--------------	-----------------------------------	-------------

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: 4 M: 4-5
P=Pilling F-Fuzzing M=Matting	

Test Report

No. 28515716

 Date: 25th March 2025

Page 5 of 7

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

Direction	Result
Warp	136.9 kg
Weft	118.0 kg

Dimensional Change After Washing

BS EN ISO 6330: 2012

3N @ 30°C Flat Dry

Direction	%Change
Warp	-3.2
Weft	-2.4

Dimensional Change After Commercial Dry Cleaning

(Commercial dry clean cycle)

Direction	%Change
Warp	-1.7
Weft	-0.3

Dimensional Change to Free Steam (wira)

BS 4323: 1979

Direction	%Change
Warp	-0.5 %
Weft	-0.5 %



TÜVRheinland®

Precisely Right.

Softlines

Test Report	No. 28515716	Date: 25th March 2025	Page 6 of 7
--------------------	---------------------	---	--------------------

Bow & Skewness

ISO 13015: 2013

Direction	
Bow	0.0 %
Skew	0.6 %

Yarn Count

ISO 7211-5 Method A

Sample	Result
	Warp: Nm: 11.5, Ne: 6.8 Weft: Nm: 9.6, Ne: 5.7 Nm: Metric Count Ne: Cotton Count

pH Value

ISO 3071: 2005 (withdrawn)

Sample	Result
	pH 7.43
pH value of Grade 3 water: 7.1	
Temperature of the Grade 3 water: 19.4	



TÜVRheinland®

Precisely Right.

Softlines

Test Report	No. 28515716	Date: 25th March 2025	Page 7 of 7
--------------------	---------------------	---	--------------------

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	A 6mm seam opening was not found Seam breakdown > 20.0Kg
Remarks:	

Tearing Strength BS EN ISO 13937-2: 2000	
Sample	Result
Warp	4094 g
Weft	5276 g

Tearing Strength (BS EN ISO 13937-1:2000; Elmendorf Tear)	
Sample	Result
Warp	5845 g
Weft	4690 g

-End of Test Report-

Test Report	No. 28515721	Date: 25th March 2025	Page 1 of 4
--------------------	---------------------	---	--------------------

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

Sample Description : Beige / 06
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Keats 100% Cotton 405 gsm
PO Number : 13315-10A
Colour : Beige / 06
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 6th March 2025
 Testing Period : 6th March 2025 – 25th March 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)

**Not UKAS Accredited

Signed for and on behalf of
TÜV Rheinland UK LTD

Christophe
r Clarke
 Digitally signed by
 Christopher Clarke
 Date: 2025.03.25
 09:24:29 Z

Chris Clarke
Laboratory Supervisor



8400

Test result is drawn according to the kind and extent of tests performed.
 Without permission of the test centre this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products. This test report represents the test parameters as requested by the customer based on submitted samples only.

Test Report	No. 28515721	Date: 25th March 2025	Page 2 of 4
--------------------	---------------------	---	--------------------

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



TÜVRheinland®

Precisely Right.

Softlines

Test Report	No. 28515721	Date: 25th March 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

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. 28515721	Date: 25 th March 2025	Page 4 of 4
--------------------	--------------	-----------------------------------	-------------

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
TS EN ISO/IEC 17025
AB-0342-T

AB-0342-T
144415420
03/25



TÜV Rheinland
Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.
Saniye Ermutlu Sokak Çolakoğlu Plaza B Blok No :12 Kozyatağı-İSTANBUL

Page 1 of 16

Test Report

BRISBANE MOSS

Bridgeroyd Works, Halifax Rd, Todmorden OL14 6DF

Report No. 144415420
Buyer /
Test Item. : Twill (405 gr/m2)
Job No. : 28515709
Manufacturer : /
Fiber Content. : 100% Cotton
Colour Name. : Dk.Navy / 12T
Order No. : 13446-47RA
End Use. : /
Test Scope. : Customer selected parameters.
Test Specification. : Test results have been evaluated based on Reach Annex XVII requirements.

Applicant's Provided Care Instruction/Label:

Sample Receiving date: 2025-03-13
Testing Period: 2025-03-13 to 2025-03-19
Report Date: 2025-03-19
Test Result: Pass

TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş. accredited by TÜRKAK under registration number AB-0342-T for ISO/IEC 17025:2017 as test laboratory

The Turkish Accreditation Agency (TÜRKAK) is signatory to the multilateral agreements of the European co-operation for the Accreditation (EA) and of the International Laboratory Accreditation (ILAC) for the Mutual recognition of the test reports.

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

For and on behalf of
TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.

Elif Kocasalli / CR Assistant
Project Manager

Kivanc Karatas / Chemical
Laboratory Manager

TÜV Rheinland Uluslararası Standartlar Sertifikasyon ve Denetim A.Ş.
Kozyatagi Mah. Saniye Ermutlu Sok. No:12
Colakoglu Plaza B Blok 34742 Kadikoy Istanbul,
Tel. +902166653200, Fax +902166653299, e-mail: info@tr.tuv.com

The results given in this report belong to the received sample by vendor.
This test report shall not be reproduced other than in full except with the permission of the laboratory. Testing reports without signature and seal are not valid.
This test report is signed by digital signature.
TÜV Rheinland testing laboratories apply the Zero Guard band rule for statement of conformity evaluation, unless other decision rule is required by the customer.

Products

AB-0342-T
144415420
03/25

Test Result Summary :**Test Specification:**

- 1 Banned azo dyes
- 2 Aromatic Amine Salts
- 3 Dimethyl fumarate
- 4 Migration of Heavy Metals
- 5 Flame Retardants
- 6 Formaldehyde (EN ISO 14184-1)
- 7 AP + APEO (Alkylphenols, Alkylphenol Ethoxylates)
- 8 Quinoline
- 9 Polycyclic aromatic hydrocarbons (PAHs)
- 10 Pentachlorophenol (PCP) Content
- 11 Per-and polyfluoroalkyl substances (PFAS)
- 12 Organotin compounds content

Test result:

- PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS
PASS

Products

AB-0342-T
144415420
03/25

1. Photo



2. List of Materials

Material List:

Material No.	Material	Color	Location
M001	Textile	Dk Navy	Woven base

AB-0342-T
144415420
03/25

1. 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
		Method No.				Method 1
		A22 Confirmation Method No.				--
ID	Test Parameter	CAS NO	Unit	RL	Regulatory Requirement	Result
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-Toluyldiamine	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.
*1	4-chloro-o-toluidinium chloride	3165-93-3	mg/kg	5	30	n.d.
*4	2,4,5-trimethylaniline hydrochloride	21436-97-5	mg/kg	5	30	n.d.
*2	2-Naphthyl-ammoniumacetate	553-00-4	mg/kg	5	30	n.d.
	2,4-Diaminoanisole sulphate	39156-41-7	mg/kg	5	30	n.d.

Abbreviation: < = less than
 RL = Reporting Limit
 mg/kg = milligram per kilogram

AB-0342-T
144415420
03/25

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.

Products

AB-0342-T
144415420
03/25

2. 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

Products

AB-0342-T
144415420
03/25

3.Dimethyl fumarate

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

Products

AB-0342-T
144415420
03/25

4. 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

AB-0342-T
144415420
03/25

5.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/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

Products

AB-0342-T
144415420
03/25

6. Formaldehyde (EN ISO 14184-1)**Test Method:** EN ISO 14184-1:2011**Test Result:**

Test No.	Material No.	Test Parameter	Unit	RL	Regulatory Requirement	Result
T001	M001	Formaldehyde content	mg/kg	10	75	n.d.

Abbreviation: < = less than
RL = Reporting Limit
mg/kg = milligram per kilogram
g = gram

Products

AB-0342-T
144415420
03/25

7.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

Products

AB-0342-T
144415420
03/25

8.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

AB-0342-T
144415420
03/25

9. 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	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

Products

AB-0342-T
144415420
03/25

10.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

AB-0342-T
144415420
03/25

11.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	µg/m ²	1	< 1 µg/m ²	n.d.
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	µg/m ²	1	< 1 µg/m ²	n.d.
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	µg/m ²	1	< 1 µg/m ²	n.d.
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	µg/m ²	1	< 1 µg/m ²	n.d.
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	µg/m ²	1	< 1 µg/m ²	n.d.
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	µg/m ²	1	< 1 µg/m ²	n.d.
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	µg/m ²	1	< 1 µg/m ²	n.d.
Perfluorocylethanol 8:2 (8:2 FTOH)	678-39-7	µg/m ²	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

AB-0342-T
144415420
03/25

12.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.

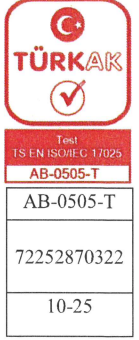
Abbreviation: < = less than
 RL = Reporting Limit
 % = percentage
 NA = Not Applicable

- END -



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

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



TEST REPORT

LAB LOCATION: TURKEY

SERVICE TYPE: Regular

LAB NUMBER: (7225)287-0322

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: 13315
Unique Product Code: 06T

SAMPLE DESCRIPTION : Woven Fabric Sample (Keats)
(Claimed Fiber Content: 100% Cotton)
(Claimed Fabric Weight: /)

COLOUR : Beige

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)

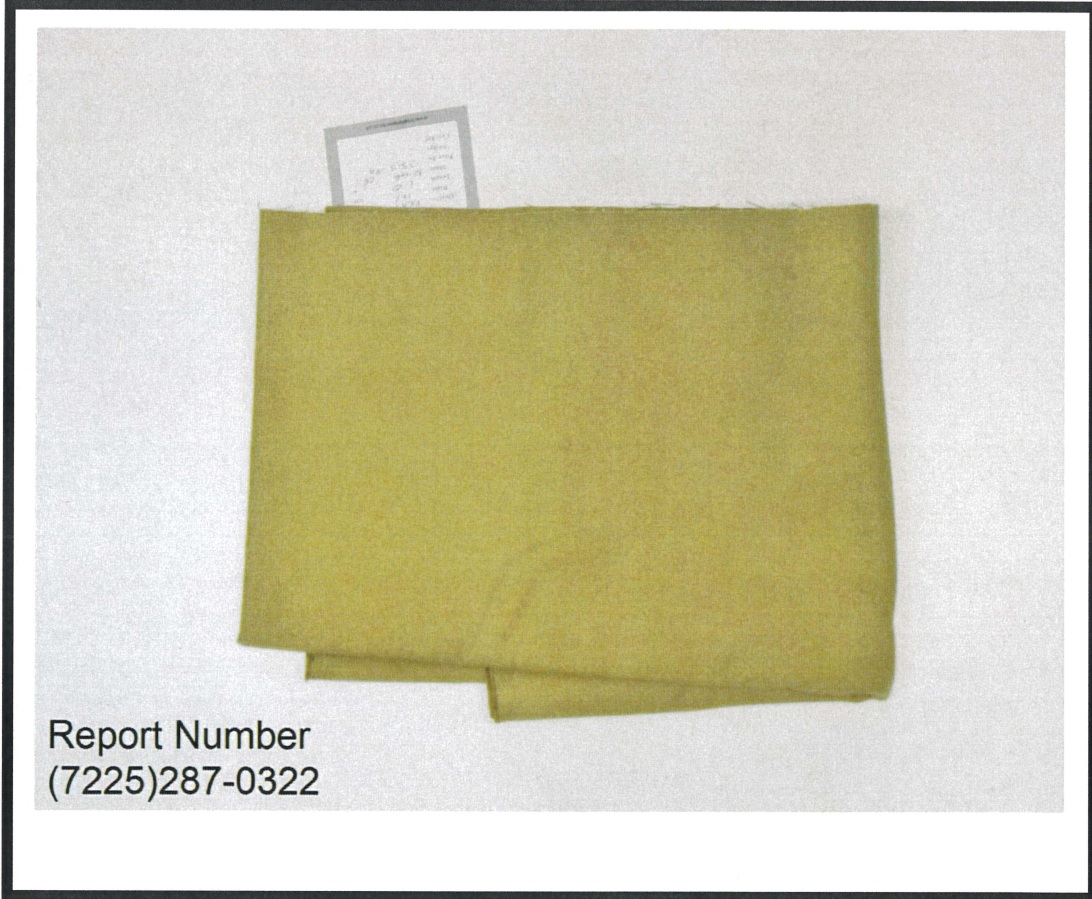
BV CPS Test Laboratuvarları Ltd. Sti. accredited by TÜRKAK under registration number AB-0505-T for TS EN ISO/IEC 17025:2017 as test laboratory. Turkish Accreditation Agency (TÜRKAK) is a signatory to the European co-operation for Accreditation (EA) Multilateral Agreement (MLA) and to the International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

SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA
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: FACE / 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
2 / 2 SF POI
3 / 3 SF POI
4 / 4 SF POI
5 / 5 SF POI

P1 / P1 SF POI
P2 / P2 SF POI
P3 / P3 SF POI
P4 / P4 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-