

# BRISBANE MOSS

M Chapman & Sons Textiles Ltd
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Technical Document	Article-	GS20		Release Date-	01 November 2024
Description- 8 Wale Hea	vyweight Co	rduroy	Composition-	100% Cot	ton
Applications- Apparel					
Weight (g/m2)	565			UNI 5114	
Weight Linear (g/m)	848				
Warp Yarn per Inch	46			UNI EN 10	49/2
Weft Yarn per Inch	280	ar farannen an an maria anna an anna an anna anna anna anna			
Warp Yarn Count	3/24s			ISO 7211/5	5
Weft Yarn Count	16s				
Minimum Usable Width	146cr	n		UNI EN 17	73
Customs Tariff Code (HS)	58012	2200			
County of Origin	Italy				
Yarn Origin		Turkey			
Weaving Origin	Italy				
Dyeing/Finishing Origin	Italy				
Sample/Bulk Leadtime (Weeks)	Stock	Supported			
Manufacturing Features-					
CONTROL FOR THE CONTROL OF THE CONTR	ig Dyeing Meth	nod	Reactive Dyestuf	fs	
Care Instructions-				UNI EN ISC	O 3758
(30C)	<b>*</b>	* E	P		
Dimensional Stability-					
Domestic Washing	Warp			ISO 6330:2	2021
	Weft	+/- 3%			
Steam Ironing	Warp	+/- 3%		DIN 53894	l-2
	Weft	+/- 3%			
Dry Cleaning	Warp	+/- 3%		UNI EN IS	0 3175-2
	Weft	+/- 3%			
Physical Features-					
Tensile Strength	Warp	180kg		UNI EN IS	0 13934-1
, ž	Weft	110kg			
Tear Strength	Warp	2800g		UNI EN IS	0 13927-2
	Weft	2100g			
Seam Slippage (6mm)	Warp	> 20kg		UNI EN IS	0 13935-1
	Weft	> 20kg			
Abrasion Resistance (9kPa)	Face	Grade 4/	5 @ 30,000 Rubs	UNI EN IS	0 12947-2
Pilling (2000 Revolutions)	Face	Grade 4/	5	UNI EN IS	0 12945-2
Martindale	Face	Grade 4/	5	20,000rpn	1
Maximum Weft Skew		3%			
Stretch and Recovery at 30N Load	Exten	sion N/A		UNI EN 14	704-1
	Resid	lual N/A			













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				Dark Colo	urs	•••••			
		Grade	Change			Cross S	taining		
			in Colour	Acetate	Cotton	Polyamide		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	2/3	3	3	3	3
Alkaline Pers	UNI EN ISO 105-E04		3	3	2/3	3	3	, 3	3
Water	UNI EN ISO 105-E01		3	3	2/3	3	3	3	3
Washing	UNI EN ISO 105-C06		3	3	2/3	3	3	3	3
Dry Rubbing	UNI EN ISO 105-X12				3/4				
Wet Rubbing	UNI EN ISO 105-X12			1	2				
Light	UNI EN ISO 105-B02	>4							
The same of the sa				•	·		•		
			Change	Light Colo	ours				
		Grade	in Colour		*	Cross S	taining		
			III Cotoui	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		3	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	d Ecotoxicologic	al-							
pH-value Wate	er Extract		4.0 - 7.5				UNI EN ISC	3071	
Flammability			Class 1				16 CFR 161	LO	
Formaldehyde	)		< 16 mg/k	(g			UNI EN ISO 14184/1		
Cancer-causing Aromatic Amines < 20 p		< 20 ppm				DIN EN ISC			
REACH Compliant Yes			Yes				Reg.(UE) 1	.907/2006	
Standard(s)-									
Compliant wit	h the National Sta	andard o	f the Peopl	e's Republi	c of China	The same of the sa	GB18401-2	2010	and the second section of the sectio
	Available					*	1030682-1		













Test Report No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 1 of 9
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The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description

: 8 Wale Heavyweight Corduroy

Customer

Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF

Product type

: Apparel Fabric GS20 100% Cotton 565 gsm

**PO Number** 

: 12227-1

Colour

: DK Olive/304

Contact person

: Stephen Newham, Joshua Barker-Lockwood

**Test Performed** 

: Selected test(s) as requested by applicant

Sample Receiving Date

17th October 2024

Testing Period

17th October 2024 - 7th 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	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			
Tensile Strength	Data			

<sup>\*</sup>Sub Contracted tests withing TUV Group Laboratories (Turkey)

Signed for and on behalf of TÜV Rheinland UK LTD

Clarke

Christopher Digitally signed by Christopher Clarke Date: 2024.11.07 14:51:10 Z

**Chris Clarke** 

**Laboratory Supervisor** 



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<sup>\*\*</sup>Not UKAS Accredited



Test Report No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 2 of 9
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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	3
Polyamide	4-5
Polyester	4-5
Acrylic	4-5
Wool	4-5

Colour Fastness to Water BS EN ISO 105 E01: 2013	
Sample	Result
Colour Change	4-5
Self-Staining	- <u>-</u> , ;
Colour Staining	
Acetate	4-5
Cotton	2-3
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 Ru	bbing					
BS EN ISO 105 X12: 20	16					
		Result				
Sample		Warp		Weft		
	<b>Dry:</b> 4-5		<b>Dry</b> : 4-5			
	Wet: 3	% Soak: 100	Wet: 3	% <b>Soak:</b> 100		
Atmospheric Conditio	ns: 65% RH, 20°C			4		
Conditioning time of s	ample and rubbing o	cloth: 4 Hours				



Test Report	No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 3 of 9
1 COLINOPOIL	1101 200 10200		9

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

olour Fastness to Hot Pressing SEN 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 Wet: 1-2

S EN ISO 105-D01: 2010		
	Result	
Colour Change	4-5	
Self-Staining		× ;
Colour Staining	Result	
Acetate	4-5	
Cotton	4-5	
Polyamide	4-5	1
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	



Test Report No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 4 of 9
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Sample	Sample	
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining	-	-
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	3	3
Polyamide	4-5	4-5
Polyester	4-5	4-5
Acrylic	4-5	4-5
Wool	4-5	4-5

### **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			

No cleansing required	V
	Average Result
A51 0000 D. I	P: 4-5
After 2000 Rubs	F: 4-5
Rating	M: 4-5



Test Report No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 5 of 9
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Tensile Strength (BS EN ISO 13934-1:2013)	
Direction	Result
Warp	183.4 kg
Weft	120.5 kg

Dimensional Change After Washing BS EN ISO 6330: 2012 3N @ 30°C Flat Dry	
Direction	%Change
Warp	0.0 %
Weft	-0.2 %

Dimensional Change After Commercial Dry Cleaning (Commercial dry clean cycle)	
Direction	%Change
Warp	-2.9 %
Weft	-0.3 %

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



Test Report	No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 6 of 9
Bow & Skewness			
SO 13015: 2013			
Direction			
Bow		0.0 %	,
Skew		0.0 %	
Yarn Count ISO 7211-5 Method A			
Sample		Result	
		Warp: Nm: 11.7, Ne: 6.9 Weft: Nm: 26.2, Ne: 15.4	
		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)			, t
		,	Result

pH 7.34

Sample

pH value of Grade 3 water: 7.1

Temperature of the Grade 3 water: 20.3



Test Report	No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 7 of 9

Seam Slippage BS EN ISO 13936-1: 2004 6mm SO	
Sample	Result
Warp	>20.4 kg
Weft	>20.4 kg
Remarks:	

Tearing Strength BS EN ISO 13937-2: 2000		
Sample	Result	
Warp	2931.9 g	
Weft	2219.9 g	

**Test Report** Date: 7th November 2024 Page 8 of 9 No. 28515289

#### 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
			20.0	41-	Method No.	Method 1
ID	Test Parameter	CAS NO	Unit	RL	n Method No. 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-Toluylendiamine	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 diammonium sulphate	39156-41-7	mg/kg	5	30	n.d.
A28	2,4,5-trimethylaniline hvdrochloride	21436-97-5	mg/kg	5	30	n.d.



Test Report	No. 28515289	Date: 7 <sup>th</sup> November 2024	Page 9 of 9

#### 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. 28515281	Date: 6 <sup>th</sup> 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 : 8 Wale Heavyweight Corduroy

Customer : Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF

Product type : Apparel GS20 100% Cotton 565 gsm

 PO Number
 : 11110-10A

 Colour
 : Corn/980

Contact person : Stephen Newham, Joshua Barker-Lockwood

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

Sample Receiving Date : 17<sup>th</sup> October 2024 Testing Period : 17<sup>th</sup> October 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	

<sup>\*</sup>Sub Contracted tests withing TUV Group Laboratories (Turkey)

Signed for and on behalf of TÜV Rheinland UK LTD

Christopher Clarke
Christopher Clarke
Date: 2024.11.06 15:01:39 Z

Chris Clarke Laboratory Supervisor UKAS
TESTING

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

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<sup>\*\*</sup>Not UKAS Accredited



Test Report	No. 28515281	Date: 6 <sup>th</sup> November 2024	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	
Polyamide	4-5	
Polyester	4-5	
Acrylic	4-5	
Wool	4-5	
Remark: Grey Scale rating is based on the 5-step so	cale 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	
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 Ru BS EN ISO 105 X12: 20				1 .
			Result	
Sample		Warp		Weft
	<b>Dry:</b> 4-5	Wet: 4	<b>Dry</b> : 4-5	Wet: 4
Atmospheric Condition	ns: 65% RH, 20°C			
Conditioning time of s	ample and rubbing c	oth: 4 Hours		



Test Report	No. 28515281	Date: 6 <sup>th</sup> 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	
	Immediately After Testing Colour Change
	Dry: 4-5
	Damp: 4-5
	Wet: 4-5
	After Conditioning Colour Change
Sample	Dry: 4-5
	Damp: 4-5
	Wet: 4-5
	Colour Change
	Damp: 4-5
	Wet: 3

Colour Fastness to Dry Cleaning		
BS EN ISO 105-D01: 2010		
	Result	
Colour Change	4-5	
Self-Staining Self-Staining	-	
Colour Staining		-
Acetate	4-5	
Cotton	4-5	
Polyamide	4-5	
Polyester	4-5	
Acrylic	4	
Wool	4-5	



Test Report	No. 28515281	Date: 6 <sup>th</sup> November 2024	Page 4 of 4
lest Report	NO. 20313201	Date. o November 2024	1 ugc + 01 +

Colour Fastness To Perspiration BS EN ISO 105-E04: 2013	F - 1	
Sample	Res	ult
	Acid	Alkaline
Colour Change	4-5	4-5
Self-Staining	- ,	
Colour Staining	Result	Result
Acetate	4-5	4-5
Cotton	4	4
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. 28515607 Date: 14th February 2025 Page 1 of 8

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

**Sample Description** 

: 8 Wale Heavyweight Corduroy

Customer

: Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF

**Product type** 

: Apparel GS20 100% Cotton 565 g/m<sup>2</sup>

PO Number

: 13598-0C

Colour

: Black / 3213

Contact person

: Stephen Newham, Joshua Barker-Lockwood

Test Performed

Selected test(s) as requested by applicant

Sample Receiving Date

3<sup>rd</sup> February 2025

**Testing Period** 

3<sup>rd</sup> February 2025 – 14<sup>th</sup> 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			

<sup>\*</sup>Sub Contracted tests withing TUV Group Laboratories (Turkey)

Signed for and on behalf of TÜV Rheinland UK LTD

Christopher

Digitally signed by Christopher Clarke Date: 2025.02.14 12:03:03 Z

Clarke

Chris Clarke Laboratory Supervisor

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

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Test Report No.	. 28515607	Date: 14 <sup>th</sup> February 2025	Page 2 of 8
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Material No.	Material	Color	Location
M001	Textile	Black	Velour 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. 28515607 Date: 14th February 2025 Page 3 of 8

# 3. Migration of Heavy Metals

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

### 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. 28515607 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 No.	T001
				Material No.	M001
Test Parameter	RL	Formulation	Test		
				Limit	Result
Octabromodiphenyl	32536-52-0	mg/k	100	< 1000	n.d.
ether (OctaBDE)		g		mg/kg	
Tris(2-	115-96-8	mg/k	100	< 1000	n.d.
chloroethyl)phosphate		g		mg/kg	
(TCEP)					
Tris(2,3,-	126-72-7	mg/k	100	not used	n.d.
dibromopropyl)-		g			
phosphate (TRIS)					
Decabromodiphenyl	1163-19-5	mg/k	100	< 1000	n.d.
ether (DecaBDE)	,	g		mg/kg	
Pentabromodiphenyl	32534-81-9	mg/k	100	< 500	n.d.
ether (PentaBDE)		g		mg/kg	
Tris(1-	545-55-1	mg/k	100	not used	n.d.
aziridinyl)phosphineoxi		g			
de) (TEPA)					·
Polybromobiphenyls	59536-65-1	mg/k	100	not used	n.d.
(PBB)	0.001.55.0	g	100	. 100	
Hexabromocyclododec	3194-55-6	mg/k	100	< 100	n.d.
ane(HBCDD)	00000 00 0	g	400	mg/kg	1
Heptabromodiphenyl	68928-80-3	mg/k	100	< 500	n.d.
ether (HeptaBDE)	00400 00 0	g	400	mg/kg	
Hexabromodiphenyl	36483-60-0	mg/k	100	< 500	n.d.
ether (HexaBDE)	40000 47 0	g ma//	400	mg/kg	n d
Tetrabromodiphenyl	40088-47-9	mg/k	100	< 500	n.d.
ether (TetraBDE)		g	L	mg/kg	

Abbreviation: < = less than

RL = Reporting Limit ppm = part per million



**Test Report** No. 28515607 Date: 14th February 2025 Page 5 of 8

# 5.AP + APEO (Alkylphenois, 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
		Nonylphenols (NP)	mg/kg	5	_	n.d.
		Octylphenols (OP)	mg/kg	5		n.d.
T001	M001	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. 28515607 Date: 14th February 2025 Page 6 of 8

# 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



Test Report No. 28515607 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:

			7	Test No.	T001
		,		Material No.	M001
Test Parameter	CAS NO	Unit	RL	Customer's requirement	Result
Perfluorooctanesulfonic acid (PFOS)	1763-23-1	μg/m²	1	< 1 μg/m²	n.d.
Perfluorooctane sulfonamide (PFOSA)	754-91-6	μg/m²	1	< 1 µg/m²	n.d.
Perfluorooctanoic acid (PFOA)	335-67-1	μg/m²	1	< 1 μg/m²	n.d.
Sodium perfluorooctanoate (PFOA-Na)	335-95-5	mg/kg	.1	< 1 μg/m²	n.d.
Potassium perfluorooctanoate (PFOA-K)	2395-00-8	mg/kg	1	< 1 µg/m²	n.d.
Silver perfluorooctanoate (PFOA-Ag)	335-93-3	mg/kg	1	< 1 μg/m²	n.d.
Perfluorooctanoyl fluoride (PFOA-F)	335-66-0	mg/kg	1	< 1 μg/m²	n.d.
Ammonium pentadecafluorooctanoate (APFO)	3825-26-1	mg/kg	1	< 1 μg/m²	n.d.
Perfluorohexane sulfonic acid (PFHxS)	355-46-4	mg/kg	1	< 1 μg/m²	n.d.
1H,1H,2H,2H-Perfluorododecanol (10:2 FTOH)	865-86-1	mg/kg	1	< 1 μg/m²	n.d.
Perfluorocylethanol 8:2 (8:2 FTOH)	678-39-7	mg/kg	1	< 1 µg/m²	n.d.
Conclusion			:	-	Pass

Abbreviation: <= Less than

RL = Reporting Limit

mg/kg = milligram per kilogram μg/m² = microgram per square metre



Test Report No. 28515607 Date: 14th February 2025 Page 8 of 8

#### 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(TributyItin) 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

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@bvcps.com.tr website: www.bureauveritas.com/cps





10-25

# TEST REPORT

LAB LOCATION: TURKEY SERVICE TYPE: Regular LAB NUMBER: (7225)287-0332

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: 13207

Unique Product Code: 3213

**SAMPLE DESCRIPTION** 

: GS20

(Claimed Fiber Content: 100% Cotton)

(Claimed Fabric Weight: /)

**COLOUR** 

: Black

SUBMITTED CARE INSTRUCTION:





**REASON FOR REVISION** 

,



**Date Out** (16/10/2025)

Ali Payalan Senior Client Team Lead Hasan Altıngul 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 (TURKAK) 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 sample 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 for 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



AB-0505-T

72252870332

10-25

# SUMMARY OF TEST RESULTS

TEST PERFORMED	PASS	FAIL	DATA		
Flammability Of Clothing Textiles*	X				
* TURKAK Accredited- See Appendix A					

RE	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				
1		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.				

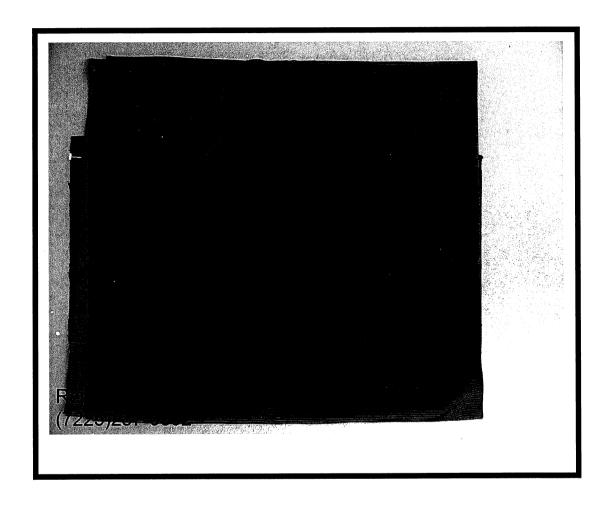


AB-0505-T

72252870332

10-25

# ORIGINAL (SAMPLE IMAGE)



72252870332

10-25

# **TEST RESULTS**

REQUIREMENTS

# FLAMMABILITY OF CLOTHING TEXTILES (16 CFR 1610)

**SAMPLE DESCRIPTION:** 

**GS20** 

FIBER CONTENT:

100% COTTON

**FABRIC WEIGHT:** 

1

**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 / 2 / 3 / 4 / 5 /	1 SF POI 2 SF POI 3 SF POI 4 SF POI 5 SF POI	P1 / P2 / P3 / P4 / P5 /	P1 SF POI P2 SF POI P3 SF POI P4 SF POI P5 SF POI
	ONDS FOR#/_SPECIMENS DID NOT IGNITE. IGNITED, BUT EXTINGUISHED. SURFACE FLASH, UNDER THE S	AVG/_SECONDS FO	
SF PW SF POI	THREAD. SURFACE FLASH, PART WAY. N DID NOT REACH THE STOP THRE SURFACE FLASH, AT THE POINT	AD.	
0.0 SEC. 0.0 SF ONLY 0.0 SFBB	NOT IGNITE" FOR PLAIN SURFACI ACTUAL BURN TIME MEASURED A TIME IN SECONDS, SURFACE FLA TIME IN SECONDS, SURFACE FLA	ES.) AND RECORDED BY THE T ASH ONLY. NO DAMAGE TO	ΓΙΜΙΝG DEVICE. Ο THE BASE FABRIC.
0.0 SFBB POI	THAN THE POINT OF IMPINGEMENTIME IN SECONDS, SURFACE FIMPINGEMENT. THIS RESULT DOCURRENT INTERPRETATION OF F	NT AS A RESULT OF SURF LASH BASE BURN STAR DES NOT QUALIFY AS A I	FACE FLASH. TING AT THE POINT OF BASE BURN UNDER THE
0.0 SFBB POI*	TIME IN SECONDS, SURFACE F POINT OF IMPINGEMENT. THE AS STATEMENT: "UNABLE TO MAKE BASE BURNS." THIS STATEMENT THERE IS A QUESTION AS TO OR	LASH BASE BURN POSS STERISK (*) IS ACCOMPAN ABSOLUTE DETERMINAT IS ADDED TO THE RESU	IBLY STARTING AT THE IIED BY THE FOLLOWING FION AS TO SOURCE OF LT OF ANY SPECIMEN IF
COMMENTS:	PASS CLASS 1, NORMAL FLAMMA	ABILITY OF COMMERCIAL	STANDARD 16 CFR 1610,

# \*\*INDICATES DOES NOT MEET THE REQUIREMENTS

APPENDIX A –LIST OF MEASUREMENT UNCERTAINTIES					
TEST NAME MEASUREMENT UNCERTAINTY					
FLAMMABILITY OF CLOTHING	16 CFR 1610	±7,9 %			
TEXTILES					

FORMERLY 191-53 OF UNITED STATES FLAMMABILITY FABRIC ACT.

-END OF REPORT-