



**BRISBANE
MOSS**

M Chapman & Sons Textiles Ltd
Chapman Works
Manchester Road
Dunnochshaw
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- | Byron | | Release Date- | 01 August 2024 |
|----------------------------------|-------------------|-----------------------|--------------------|--------------------|---------------|-----------------|
| Description- | Twill | | Composition- | | 100% Cotton | |
| Applications- | Apparel | | | | | |
| Weight (g/m ²) | 270 | | UNI 5114 | | | |
| Weight Linear (g/m) | 405 | | | | | |
| Warp Yarn per Inch | 112 | | UNI EN 1049/2 | | | |
| Weft Yarn per Inch | 51 | | | | | |
| Warp Yarn Count | 16s | | ISO 7211/5 | | | |
| Weft Yarn Count | 12s | | | | | |
| Minimum Usable Width | 146cm | | UNI EN 1773 | | | |
| Customs Tariff Code (HS) | 52093900 | | | | | |
| County of Origin | 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 | | | |
| Care Instructions- | | | | | | UNI EN ISO 3758 |
| | | | | | | |
| <u>Dimensional Stability-</u> | | | | | | |
| 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% | | | | |
| <u>Physical Features-</u> | | | | | | |
| Tensile Strength | Warp | 90kg | | UNI EN ISO 13934-1 | | |
| | Weft | 30kg | | | | |
| Tear Strength | Warp | 2500g | | UNI EN ISO 13927-2 | | |
| | Weft | 2500g | | | | |
| Seam Slippage (6mm) | Warp | 17kg | | UNI EN ISO 13935-1 | | |
| | Weft | > 20kg | | | | |
| Abrasion Resistance (9kPa) | Face | Grade 4 @ 30,000 Rubs | | UNI EN ISO 12947-2 | | |
| Pilling (2000 Revolutions) | Face | Grade 3 @ 30,000 Rubs | | UNI EN ISO 12945-2 | | |
| Martindale | Face | Grade 4 | | 20,000rpm | | |
| Maximum Weft Skew | | | 3% | | | |
| Stretch and Recovery at 30N Load | Extension | N/A | | UNI EN 14704-1 | | |
| | Residual | N/A | | | | |

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sales@brisbanemoss.co.uk
www.brisbanemoss.co.uk

| 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 | |
| Okeo-TEX Standard 100 Certified | | | | | | | | 11-52140 Shirley | |

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Sample Description : Twill
Customer : Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF
Product type : Apparel Byron 100% Cotton 270 g/m²
PO Number : 13651-5B
Colour : Royal / 2116
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 22nd January 2025
 Testing Period : 22nd January 2025 – 11th February 2025
 Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

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

*Sub Contracted tests withing TUV Group Laboratories (Turkey)

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Signed for and on behalf of
TÜV Rheinland UK LTD

Christopher
Clarke

Digitally signed by
Christopher Clarke
Date: 2025.02.11 10:36:57 Z

Chris Clarke
Laboratory Supervisor



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| | | | |
|--------------------|--------------|--------------------------------------|-------------|
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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 |
| | Wet: 3-4 |
| | % Soak: 100 |
| | Dry: 4-5 |
| | Wet: 3-4 |
| | % Soak: 100 |

Atmospheric Conditions: 65% RH, 20°C

Conditioning time of sample and rubbing cloth: 4 Hours

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

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

| | |
|--|---------------|
| Colour Fastness to Dry Cleaning BS EN ISO 105-D01: 2010 | |
| | Result |
| Colour Change | 4-5 |
| Self-Staining | - |
| Colour Staining | Result |
| Acetate | 4-5 |
| Cotton | 4-5 |
| Polyamide | 4-5 |
| Polyester | 4-5 |
| Acrylic | 4-5 |
| Wool | 4-5 |
| Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good | |



| | | | |
|--------------------|--------------|--------------------------------------|-------------|
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| Colour Fastness To Perspiration BS EN ISO 105-E04: 2013 | | |
|--|--------|----------|
| Sample | Result | |
| | Acid | Alkaline |
| Colour Change | 4-5 | 4-5 |
| Self-Staining | | |
| Colour Staining | Result | Result |
| Acetate | 4-5 | 4-5 |
| Cotton | 4-5 | 4-5 |
| Polyamide | 4-5 | 4-5 |
| Polyester | 4-5 | 4-5 |
| Acrylic | 4-5 | 4-5 |
| Wool | 4-5 | 4-5 |

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

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

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

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

P=Pilling
F-Fuzzing
M=Matting



| | | | |
|--------------------|--------------|--------------------------------------|-------------|
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| Tensile Strength (BS EN ISO 13934-1:2013) | |
|---|---------------|
| Direction | Result |
| Warp | 97.2 kg |
| Weft | 32.5 kg |

| Dimensional Change After Washing BS EN ISO 6330: 2012 3N @ 30°C Flat Dry | |
|---|----------------|
| Direction | %Change |
| Warp | -1.4 % |
| Weft | -2.3 % |

| Dimensional Change After Commercial Dry Cleaning (Commercial dry clean cycle) | |
|---|----------------|
| Direction | %Change |
| Warp | -1.1 % |
| Weft | -0.2 % |

| Dimensional Change to Free Steam (wira) BS 4323: 1979 | |
|---|----------------|
| Direction | %Change |
| Warp | +0.5 % |
| Weft | -0.8 % |



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| | |
|--|-------|
| Bow & Skewness ISO 13015: 2013 | |
| Direction | |
| Bow | 0.5 % |
| Skew | 1.1 % |

| | |
|--|--|
| Yarn Count ISO 7211-5 Method A | |
| Sample | Result |
| | Warp: Nm: 27.8, Ne: 16.4 Weft: Nm: 20.5, Ne: 12.1 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 7.32 |
| pH value of Grade 3 water: 7.1 | |
| Temperature of the Grade 3 water: 15.0 | |



| | | | |
|--------------------|--------------|--------------------------------------|-------------|
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| | |
|--|--|
| Seam Slippage BS EN ISO 13936-1: 2004 6mm SO | |
| Sample | Result |
| Warp | 18.1 kg |
| Weft | A 6mm seam opening was not found before a seam breakdown of >20 kg |
| Remarks: | |

| | |
|--|---------------|
| Tearing Strength BS EN ISO 13937-2: 2000 | |
| Sample | Result |
| Warp | 2627 g |
| Weft | 2606 g |

| | |
|---|---------------|
| Tearing Strength (BS EN ISO 13937-1:2000; Elmendorf Tear) | |
| Sample | Result |
| Warp | 3155 g |
| Weft | 2618 g |

| | | | |
|--------------------|---------------------|--|--------------------|
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4. Banned azo dyes

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

Test Results:

| ID | Test Parameter | CAS NO | Unit | RL | Material No. | |
|-----------------------------|--|------------|-------|----|--------------|------|
| | | | | | M001 | |
| | | | | | T001-1 | |
| | | | | | Method 1 | |
| A22 Confirmation 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-Toluylenediamine | 95-80-7 | mg/kg | 5 | 30 | n.d. |
| A20 | 2,4,5-Trimethylaniline | 137-17-7 | mg/kg | 5 | 30 | n.d. |
| A21 | O-Anisidine | 90-04-0 | mg/kg | 5 | 30 | n.d. |
| A22** | 4-Aminoazobenzene | 60-09-3 | mg/kg | 5 | 30 | n.d. |
| A23^ | 2,4-xylidine | 95-68-1 | mg/kg | 5 | 30 | n.d. |
| A24^ | 2,6-xylidine | 87-62-7 | mg/kg | 5 | 30 | n.d. |
| *2 | 2-Naphthyl-ammoniumacetate | 553-00-4 | mg/kg | 5 | 30 | n.d. |
| A26 | 4-chloro-o-toluidinium chloride | 3165-93-3 | mg/kg | 5 | 30 | n.d. |
| A25 | 4-chloro-o-toluidinium chloride | 3165-93-3 | mg/kg | 5 | 30 | n.d. |
| A27 | 4-Methoxy-m-phenylene diammonium sulphate | 39156-41-7 | mg/kg | 5 | 30 | n.d. |
| A28 | 2,4,5-trimethylaniline hydrochloride | 21436-97-5 | mg/kg | 5 | 30 | n.d. |

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-

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

Sample Description : Twill
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Byron 100% Cotton 270 gsm²
PO Number : 12251-9RA
Colour : Beige / 2101
Contact person : Stephen Newham, Joshua Barker-Lockwood

Test Performed : Selected test(s) as requested by applicant
 * * * * *
 Sample Receiving Date : 22nd January 2025
 Testing Period : 22nd January 2025 – 11th February 2025
 Test Result(s) : For further details, please refer to the following page(s).

Conclusion:

| Test Property | |
|----------------------------------|------|
| Colour Fastness to Washing | Data |
| Colour Fastness to Dry Cleaning | Data |
| Colour Fastness to Perspiration | Data |
| Colour Fastness to Water | Data |
| Colour Fastness to Light* | Data |
| Colour Fastness to Hot Pressing* | Data |
| Colour Fastness to Rubbing | Data |

*Sub Contracted tests withing TUV Group Laboratories (Turkey)
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Signed for and on behalf of
TÜV Rheinland UK LTD

Christopher
Clarke

Digitally signed by
Christopher Clarke
Date: 2025.02.11 11:35:48
Z

Chris Clarke
Laboratory Supervisor



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Results:

| Colour Fastness to Washing Washing Condition: A2S, 30°C (Deviation) With ECE(B) + Sodium Perborate, 10 Steel Balls. | |
|---|--------|
| Sample | Result |
| Colour Change | 4-5 |
| Self-Staining | - |
| Colour Staining | |
| Acetate | 4-5 |
| Cotton | 4-5 |
| Polyamide | 4-5 |
| Polyester | 4-5 |
| Acrylic | 4-5 |
| Wool | 4-5 |

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

| Colour Fastness to Water BS EN ISO 105 E01: 2013 | |
|--|--------|
| Sample | Result |
| Colour Change | 4-5 |
| Self-Staining | - |
| Colour Staining | |
| Acetate | 4-5 |
| Cotton | 4-5 |
| Polyamide | 4-5 |
| Polyester | 4-5 |
| Acrylic | 4-5 |
| Wool | 4-5 |

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

| Colour Fastness to Rubbing BS EN ISO 105 X12: 2016 | | | |
|--|----------|----------|----------|
| Sample | Result | | |
| | Warp | | Weft |
| | Dry: 4-5 | Wet: 4-5 | Dry: 4-5 |
| | | | Wet: 4-5 |

Atmospheric Conditions: 65% RH, 20°C
Conditioning time of sample and rubbing cloth: 4 Hours

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

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

| | |
|--|---------------|
| Colour Fastness to Dry Cleaning BS EN ISO 105-D01: 2010 | |
| | Result |
| Colour Change | 4-5 |
| Self-Staining | - |
| Colour Staining | |
| Acetate | 4-5 |
| Cotton | 4-5 |
| Polyamide | 4-5 |
| Polyester | 4-5 |
| Acrylic | 4-5 |
| Wool | 4-5 |
| Remark: Grey Scale rating is based on the 5-step scale of 1 to 5, where 1 is bad and 5 is good | |

| | | | |
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| Colour Fastness To Perspiration BS EN ISO 105-E04: 2013 | | |
|---|---------------|-----------------|
| Sample | Result | |
| | Acid | Alkaline |
| Colour Change | 4-5 | 4-5 |
| Self-Staining | - | - |
| Colour Staining | Result | Result |
| Acetate | 4-5 | 4-5 |
| Cotton | 4-5 | 4-5 |
| Polyamide | 4-5 | 4-5 |
| Polyester | 4-5 | 4-5 |
| Acrylic | 4-5 | 4-5 |
| Wool | 4-5 | 4-5 |

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

-End of Test Report-

| | | | |
|--------------------|--------------|--------------------------------------|-------------|
| Test Report | No. 28515595 | Date: 14 th February 2025 | Page 1 of 8 |
|--------------------|--------------|--------------------------------------|-------------|

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

Sample Description : Twill
Customer : **Brisbane Moss; Bridgeroyd Works, Todmorden, OL14 6DF**
Product type : Apparel Byron 100% Cotton 270 g/m²
PO Number : 12727-17B
Colour : Royal / 2116
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)
 **Not UKAS Accredited

Signed for and on behalf of
 TÜV Rheinland UK LTD

Christopher
Clarke
 Digitally signed by
 Christopher Clarke
 Date: 2025.02.14
 10:13:10 Z
Chris Clarke
Laboratory Supervisor

*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. 28515595 | Date: 14 th February 2025 | Page 2 of 8 |
|--------------------|--------------|--------------------------------------|-------------|

| Material No. | Material | Color | Location |
|--------------|----------|-------|------------|
| M001 | Textile | Blue | 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. 28515595 | Date: 14th February 2025 | Page 3 of 8 |
|--------------------|---------------------|--|--------------------|

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. 28515595 | 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 | 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

| | | | |
|--------------------|---------------------|--|--------------------|
| Test Report | No. 28515595 | Date: 14th February 2025 | Page 5 of 8 |
|--------------------|---------------------|--|--------------------|

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. 28515595 | 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 | 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. | |
| | | | | | 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. 28515595 | Date: 14th February 2025 | Page 7 of 8 |
|--------------------|---------------------|--|--------------------|

9. Per- and polyfluoroalkyl substances (PFAS)

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

Test Result:

| | | | | | Test No. | T001 |
|--|-----------|-------------------|----|------------------------|--------------|------|
| | | | | | Material No. | M001 |
| Test Parameter | CAS NO | Unit | RL | Customer's requirement | Result | |
| Perfluorooctanesulfonic acid (PFOS) | 1763-23-1 | µg/m ² | 1 | < 1 µg/m ² | n.d. | |
| Perfluorooctane sulfonamide (PFOA-S) | 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. 28515595 | Date: 14 th 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(Tributyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |
| TPT(Triphenyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |
| TOT(Trioctyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |
| TCyT(Tricyclohexyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |
| TPrT(Tripropyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |
| Sum of Tin of tri-substituted organotins | % | NA | < 0.1 % | n.d. |
| DBT(Dibutyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |
| DOT(Dioctyltin) by weight of tin | % | 0.01 | < 0.1 % | n.d. |

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

-End of Test Report-



**BUREAU
VERITAS**

**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
TS EN ISO/IEC 17025
AB-0505-T

AB-0505-T

72252870341

10-25

TEST REPORT

LAB LOCATION: TURKEY

SERVICE TYPE: Regular

LAB NUMBER: (7225)287-0341

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

START DATE FOR TESTING: October 14, 2025

DATE END OF TEST: September 16, 2025

NUMBER OF WORKING DAYS: 3.0

CUSTOMER NAME / ADDRESS CONTACT NAME : M CHAPMAN&SONS LTD
Address: Chapman Works, Manchester Road, Dunnockshaw, Burnley,
BB121 5PW.)
(Attn: Paige Newham-Foulds)

BUYER : /

SUPPLIER REFERENCE : Style Number: /
PO Number: 13802
Unique Product Code: 2102

SAMPLE DESCRIPTION : Woven Fabric Samples (Byron-Twill)
(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)

C/N/ ET/SD

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 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 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.

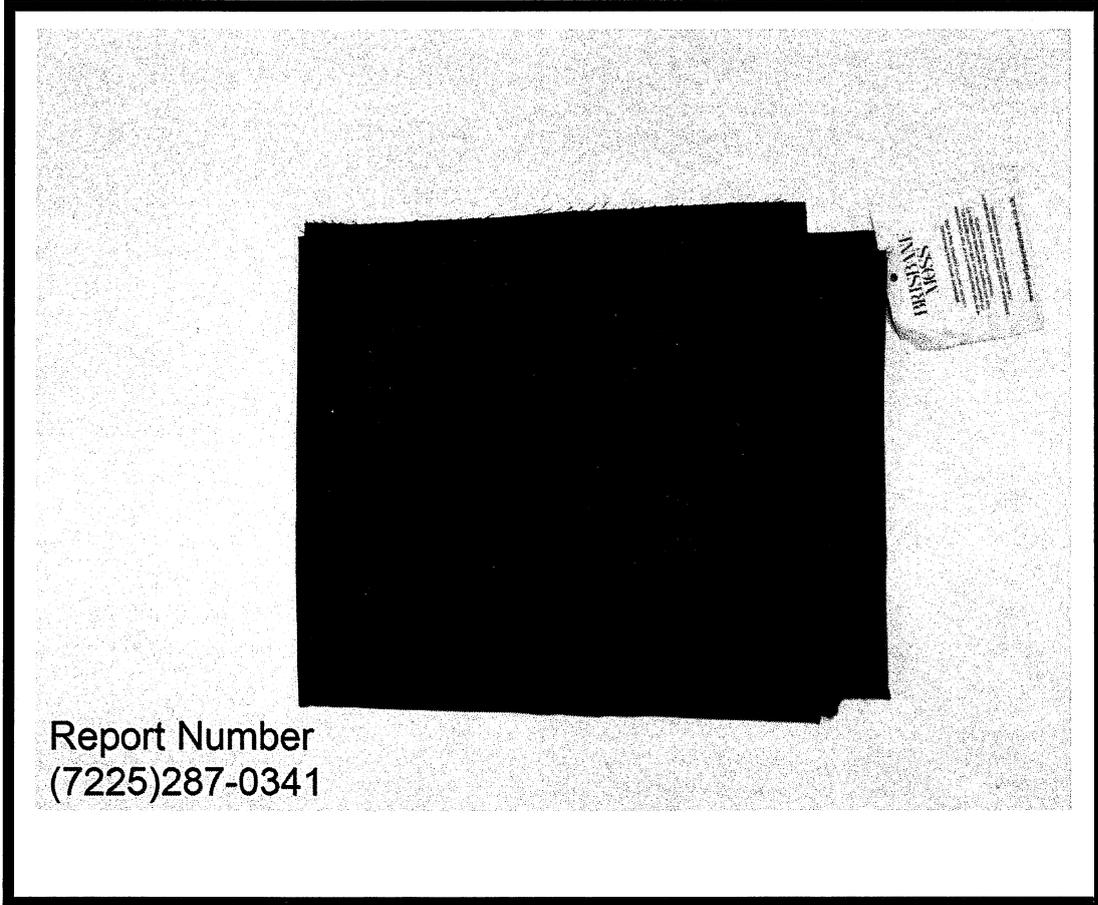
SUMMARY OF TEST RESULTS

| 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)





AB-0505-T

72252870341

10-25

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

CLASSIFICATION

IF SAMPLE FALLS UNDER SPECIFIC EXEMPTIONS AS LISTED BELOW, THE REPORT SHOULD BE RATED AS A PASS AND THE SPECIFIC EXEMPTION SHOULD BE NOTED IN THE REPORT.

CLASS 1

EXEMPT DUE TO FABRIC WEIGHT: 8.3 OZ/YD² THE SUBMITTED SAMPLE(S) IS(ARE) EXEMPT FROM FLAMMABILITY TESTING IN ACCORDANCE WITH 16 CFR 1610.1(D) WHICH STATES:

SPECIFIC EXEMPTIONS

EXPERIENCE GAINED FROM YEARS OF TESTING IN ACCORDANCE WITH THE STANDARD DEMONSTRATES THAT CERTAIN FABRICS CONSISTENTLY YIELD ACCEPTABLE RESULTS WHEN TESTED IN ACCORDANCE WITH THE STANDARD. THEREFORE, PERSONS AND FIRMS ISSUING AN INITIAL GUARANTY OF ANY OF THE FOLLOWING TYPES OF FABRICS, OR OF PRODUCTS MADE ENTIRELY FROM ONE OR MORE OF THESE FABRICS ARE EXEMPT FROM ANY REQUIREMENT FOR TESTING TO SUPPORT GUARANTIES OF THOSE FABRICS.

1. PLAIN SURFACE FABRICS, REGARDLESS OF FIBER CONTENT, WEIGHING 2.6 OUNCES PER SQUARE YARD OR MORE; AND
2. ALL FABRICS, BOTH PLAIN SURFACE AND RAISED-FIBER SURFACE, REGARDLESS OF WEIGHT, MADE ENTIRELY FROM ANY OF THE FOLLOWING FIBERS OR ENTIRELY FROM COMBINATION OF THE FOLLOWING FIBERS: ACRYLIC, MODACRYLIC, NYLON, OLEFIN, POLYESTER, WOOL.

**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-

C/N/ET/SD

Document No: gen.f.132
Issue Date: 05.06.2012
Rev. No /Date: 37 / 10.09.2025

Page 4 / 4

Prepared by: Şahin Engin
Controlled by: Aygül Duran
Approved by: Meltem Mat