TECHNICAL REPORT

Maxwell Road
Stevenage
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CHIEFTAIN FABRICS
Trim
Co Meath
Republic of Ireland

Our Ref: **TX-10303-S3**
Date: 08 March 2021
Delivery Date: 05 March 2021
Test Dates: 25 February - 05 March 2021

For the attention of Emily Anderson

SAMPLE(S) FOR TEST:

One, Fabric – Ref: Chieftain

Note: The above descriptions are as supplied by the client and have not been verified by FIRA International who can take no responsibility for the accuracy of the description.

TEST REQUIREMENTS:

Bursting Strength, BS ISO 13938-2: 2019*

*Contracted out to another UKAS accredited test laboratory

FIRA International
Registered office: 10 Lower Grosvenor Place,
London, UK, SW1W 0EN
Registered in England No: 3181481

TECHNICAL REPORT

DESCRIPTION

One, Fabric – Ref: Chieftain

Initial Inspection: Condition as new

Unless otherwise stated:

Conditioning: In accordance with BS EN ISO 139: 2005+A1:2011; >24 hours at 20±2°C & 65±4% relative humidity;

Testing: In accordance with BS EN ISO 139: 2005+ A1:2011 20±2°C & 65±4% relative humidity

TEST RESULTS

BS ISO 13938-2: 2019 - Textiles. Bursting properties of fabrics. Pneumatic method for determination of bursting strength and bursting distension.

Type of Burst Obtained	Breaking Strength (kPa)
Mean	283.2

Approximate test area used: 50cm2 *State of specimen: conditioned*

Tested by: UKAS Accredited Laboratory

Reported by: Luis Mitchell

Approved by: Stephen Cotton
Technical Specialist

********** End of Report **********

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Chieftain Fabrics
Trim
Co Meath
Republic of Ireland

Our Ref: **TX-10270-S8**
Date: 11 March 2021
Delivery Date: 18 February 2021
Test Dates: 11 March 2021

For the attention of Emily Anderson

SAMPLE(S) FOR TEST:

One, Fabric – Ref: Chieftain

Note: The above descriptions are as supplied by the client and have not been verified by FIRA International who can take no responsibility for the accuracy of the description.

TEST REQUIREMENTS:

Seam slippage - BS EN ISO 13936-2: 2004

RESULT:

Severe Contract

FIRA International
Registered office: 10 Lower Grosvenor Place,
London, UK, SW1W 0EN
Registered in England No: 3181481

TECHNICAL REPORT

DESCRIPTION

One, Fabric – Ref: Chieftain

Initial Inspection: Condition as new

Unless otherwise stated:

Conditioning: In accordance with BS EN ISO 139: 2005+A1:2011; >24 hours at 20±2°C & 65±4% relative humidity;

Testing: In accordance with BS EN ISO 139: 2005+ A1:2011 20±2°C & 65±4% relative humidity

TEST RESULTS

DETERMINATION OF SLIPPAGE RESISTANCE OF YARNS AT A SEAM IN WOVEN FABRICS: FIXED LOAD METHOD - BS EN ISO 13936-2: 2004*.

	Parallel to the warp (mm)	Parallel to the weft (mm)
Seam gape at 5N	2.8	2.6

Maximum load applied: 180N

*According to BS 2543: 2004 a maximum seam gape at 5N of **4mm** is specified for heavy domestic, general contract and severe contract fabrics, **6mm** for general domestic and **8mm** for light domestic fabrics intended for upholstery use applications.*

**The test was carried out using 80DTex polyester cone thread which deviates from the specification stated in BS EN ISO 13936-2: 2004. Although this thread does not fully meet the specification laid down in the standard this is regarded as having no significant effect on the test.*

CONCLUSION

The material properties for BS EN 14465: 2003 indicates that this fabric reaches a performance level of:

Test performed	Performance level
Seam slippage - BS EN ISO 13936-2: 2004	A

According to BS 2543: 2004, this fabric is suitable in respect of seam slippage properties for Severe Contract (SC) upholstery use applications.

A Grading Assessment Tolerance of +/-0.5 of grade is applicable for all Colour Fastness assessments due to their subjective nature. This uncertainty was not applied to the reported results and therefore it needs to be considered when determining compliance with a specification. The temperature and humidity are at the tolerances stated in the standard. Uncertainty of Measurement calculations have not been applied. FIRA Uncertainty of Measurement values are available on request.

Tested by: Nathaly Da Silva

Reported by: Luis Mitchell

Approved by: Nathaly Da Silva
Senior Technician

********** End of Report **********

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Chieftain Fabrics	Our Ref:	**TX-10253-S3**
Trim	Date:	10 March 2021
Co Meath	Delivery Date:	18 February 2021
Republic of Ireland	Test Dates:	09 March 2021

For the attention of Emily Anderson

SAMPLE(S) FOR TEST:

One, Fabric – Ref: Chieftain

Note: The above descriptions are as supplied by the client and have not been verified by FIRA International who can take no responsibility for the accuracy of the description.

TEST REQUIREMENTS:

Tensile strength - BS EN ISO 13934-1: 2013

RESULT:

Severe Contract

FIRA International
Registered office: 10 Lower Grosvenor Place,
London, UK, SW1W 0EN
Registered in England No: 3181481

TECHNICAL REPORT

DESCRIPTION

One, Fabric – Ref: Chieftain

Initial Inspection: Condition as new

Unless otherwise stated:

Conditioning: In accordance with BS EN ISO 139: 2005+A1:2011; >24 hours at 20±2°C & 65±4% relative humidity;

Testing: In accordance with BS EN ISO 139: 2005+ A1:2011 20±2°C & 65±4% relative humidity

TEST RESULTS

DETERMINATION OF MAXIMUM FORCE & ELONGATION AT MAXIMUM FORCE USING THE STRIP METHOD BS EN ISO 13934-1: 2013.

Sample	Breaking Strength (N)		Elongation (%)	
	Parallel to warp	Parallel to weft	Parallel to warp	Parallel to weft
1	426.2	308.4	26.6	167.9
2	448.0	310.0	27.8	170.5
3	406.4	305.9	25.4	171.8
4	443.8	303.9	27.1	168.2
5	443.1	294.5	27.9	164.5
Mean	443.5	304.5	27.0	168.6

Gauge length used: 200mm Rate of elongation: 100mm/min Slack set procedure used
State of specimen: conditioned

*According to BS 2543: 2004 a minimum breaking strength of **350N** warp and weft is required for light domestic and general domestic use, and **400N** for heavy domestic, general contract or severe contract use applications.*
Elongation results supplied for information only; performance for upholstery fabrics is dependant on breaking strength. An uncertainty of measurement budget of +/- 1.67% is applicable for all tensile strength borderline passes/ failures.

CONCLUSION

The material properties for BS EN 14465: 2003 indicates that this fabric reaches a performance level of:

Test performed	Performance level
Tensile strength - BS EN ISO 13934-1: 2013	A

According to BS 2543: 2004, this fabric is suitable in respect of tensile strength properties for Severe Contract (SC) upholstery use applications.

A Grading Assessment Tolerance of +/-0.5 of grade is applicable for all Colour Fastness assessments due to their subjective nature. This uncertainty was not applied to the reported results and therefore it needs to be considered when determining compliance with a specification. The temperature and humidity are at the tolerances stated in the standard. Uncertainty of Measurement calculations have not been applied. FIRA Uncertainty of Measurement values are available on request.

Tested by: Nathaly Da Silva

Reported by: Luis Mitchell

Approved by: Stephen Cotton
Technical Specialist

********** End of Report **********