

Our Ref: SW/LS

12 March 2021

Report 372412

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Chieftain Fabrics
Fair Green
Trim
Co. Meath
Ireland

Contact: Emily Anderson

DATE RECEIVED	:	04 MARCH 2021
DATE TESTED	:	12 MARCH 2021
QUALITY REFERENCE	:	LIONELLA
SUPPLIER	:	CHIEFTAIN FABRICS
REPUTED FIBRE CONTENT	:	PVC & PU MIX
COLOUR / DESIGN	:	BLACK VELVET
FABRIC DESCRIPTION	:	COATED
END-USE	:	UPHOLSTERY
ORDER NUMBER	:	AVIATION

REQUEST: CS 25 853 Appendix F Part I Certification Specifications and Acceptable Means of Compliance for Large Aeroplanes - Interior compartments (Vertical Test)

RESULT: When tested as described the sample meets the flammability performance requirements of CS 25 853 Appendix F Part I(a)(ii)



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LABORATORY DIRECTOR



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FLAMMABILITY TECHNICIAN

This report shall not be reproduced except in full without written approval of HSTTS. In all circumstances results of tests are implied as referring only to the sample supplied and should not be construed or interpreted on any other basis. The comments given in the report are for guidance only and are not a part of the results. Where specified in a test method preconditioning in accordance with ISO 139 is not carried out as samples are exposed to the conditioning atmosphere specified within ISO 139 for a minimum of 16 hours prior to test.

CS 25 853 Appendix F Part I Certification Specifications and Acceptable Means of Compliance for Large Aeroplanes - Interior compartments (Vertical Test)

Conditioning

The samples of Lionella, Black Velvet were conditioned in a standard atmosphere of 21.1 ± 3 °C and 50 ± 5 % relative humidity for a period of not less than 24 hours prior to test. Samples were tested in their original (as received) condition.

Requirements:

According to Appendix F Part I (a) (ii) 'Floor coverings, textiles (including draperies and upholstery), seat cushions, padding, decorating and non-decorated coated fabrics, leather, must be self-extinguishing when tested vertically in accordance with the applicable portions of Part I of this appendix or other approved equivalent means. The average burn length may not exceed 20 cm (8 inches), and the average flame time after removal of the flame source may not exceed 15 seconds. Drippings from the test specimen may not continue to flame for more than an average of 5 seconds after falling.'

Results

Duration of flame application: 12 seconds

Length / Warp Direction

Specimen	Burn time, s	Burn length, mm	Dripping time, s
1	2.4	100	0.0
2	1.8	105	0.0
3	2.1	100	0.0
Mean	2.1	101.6	0.0

Width / Weft Direction

Specimen	Burn time, s	Burn length, mm	Dripping time, s
1	1.6	105	0.0
2	0.0	110	0.0
3	0.0	100	0.0
Mean	0.5	105.0	0.0

Decision rules

The decision rule applicable to statements of conformity relating to the test(s) carried out is simple acceptance based on the measured test results not falling within a range either side of a specified limit that is equal to the uncertainty of measurement for the parameter measured (based on 95% confidence levels). In all other regards, the decision rule is based on simple acceptance predicated upon the conditions of testing falling within the criteria for test set out in the test method with a conformance probability of 95%. The risk of false accept or false reject is therefore not greater than 2.5%.

Uncertainty of measurement: Timings $\pm 0.4s$
Dimensions $\pm 0.5mm$

