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Our Ref: **FL-49411-S1**

Date: 21 December 2022

Delivery Date: 08 December 2022

Test Dates: 09 – 20 December 2022



SAMPLE(S) FOR TEST:

One, Fabric – Ref: Mirabbo/Adley

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

TEST REQUIREMENTS:

BS EN 1021-1: 2006 (smouldering cigarette)
BS EN 1021-2: 2006 (match flame equivalent)
BS 5852: 2006 Clause 11, Ignition Source 5
BS 7176: 2007+A1:2011 Medium Hazard

RESULT:

Pass - P 0
Pass - P 1
Pass - P 5
Pass

The material was subjected to the watersoak procedure as detailed in Annex D of BS EN 1021-1: 2006 & BS EN 1021-2: 2006 and Annex E of BS 5852: 2006 and then line dried at indoor ambient conditions.

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When a statement of conformity to a test standard is reported the test result(s) are unlikely to be the "true" result(s) due to measurement uncertainty. When the sample is tested under the criteria and conditions as defined in the method and the measured result is outside of the upper/lower acceptance limit and corrected for uncertainty at 95% probability, the risk of a false accept/reject is $\leq 2.5\%$. These results will be reported as Pass/Fail. If the test result(s) obtained under the same conditions is close to the upper/lower acceptance limit and could be either side of the accept/reject threshold these results will be reported as Fail*



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TECHNICAL REPORT

DESCRIPTION

Enquiry No: FL-49411-S1

Item: One, Composite – Ref: Mirabbo/Adley

Supplied by:

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

BS EN 1021-1: 2006: ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE PART 1 IGNITION SOURCE: SMOULDERING CIGARETTE

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥24 hours at 23±2°C & 50±5% rh.

Test Procedure: The test is carried out in accordance with BS EN 1021-1 & 2:2006 using a specified rig as defined in Clause 6.1 in the above regulations.

Filling Material: A combustion modified high resilience foam 35kg/m³ Ref: CMHR35.

Test Conditions: The test was conducted within the specified conditions of 10-30°C & 15-80% rh.

RESULTS

Application No.	Ignition Source	Smoke/ Smoulder	Result Ignition/ Non-Ignition
1	0	14min 49sec	PASS N/I
2	0	15min 30sec	PASS N/I

COMMENTS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.1a	Unsafe escalating combustion	NO - PASS N/I
3.1b	Test assembly consumed	NO - PASS N/I
3.1c	Smoulders to extremities/ reaches either side or through full thickness of sample	NO - PASS N/I
3.1d	Smoulders more than 1 hour	NO - PASS N/I
3.1e	Damage >100mm's from source	NO - PASS N/I
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.2	Flaming occurs	NO - PASS N/I

CONCLUSION

This sample passes the requirements of BS EN 1021-1: 2006



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TECHNICAL REPORT

DESCRIPTION

Enquiry No. FL-49411-S1

Item: One, Fabric – Ref: Mirabbo/Adley

Supplied by:

The following test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.

BS EN 1021-2: 2006: ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE PART 2 IGNITION SOURCE: MATCH FLAME EQUIVALENT

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥24 hours at 23±2°C & 50±5% rh.

Test Procedure: Test is carried out in accordance with BS EN 1021-2 & 2:2006 using a specified rig as defined in clause 6.1 in the above regulations.

Filling Material: A combustion modified high resilience foam 35kg/m3 Ref: CMHR35.

Test Conditions: The test was conducted within the specified conditions of 10-30°C & 15-80% rh.

RESULTS

Application No.	Ignition Source	Time of Application	Flames Following Removal of Source	Result Ignition/ Non-Ignition
1	1	15sec	0min 00sec	PASS N/I
2	1	15sec	0min 00sec	PASS N/I
3	1	15sec	0min 26sec	PASS N/I

COMMENTS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.1a	Unsafe escalating combustion	NO - PASS N/I
3.1b	Test assembly consumed	NO - PASS N/I
3.1c	Smoulders to extremities/ reaches either side or through full thickness of sample	NO - PASS N/I
3.1d	Smoulders more than 1 hour	NO - PASS N/I
3.1e	Damage >100mm's from source	NO - PASS N/I
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION
3.2a	Unsafe escalating combustion	NO - PASS N/I
3.2b	Test assembly consumed	NO - PASS N/I
3.2c	Flames to extremities/ reaches either side or through full thickness of sample	NO - PASS N/I
3.2d	Flames continue beyond 120seconds	NO - PASS N/I

CONCLUSION

This sample passes the requirements of BS EN 1021-2: 2006



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TECHNICAL REPORT

DESCRIPTION

Enquiry No. FL-49411-S1

Item: One, Fabric – Ref: Mirabbo/Adley

Supplied by:

IGNITABILITY TEST ACCORDING TO BS 5852: 2006. METHODS OF TEST FOR ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED SEATING BY SMOULDERING AND FLAMING IGNITION SOURCES. CLAUSE 11 IGNITION SOURCE 5

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥24 hours at 23±2°C & 50±5% rh.

Test Procedure: Test is carried out in accordance with BS 5852: 2006 Clause 11 - ignitability of upholstery composites. Assembly of the materials to be tested mounted on a test rig specified in Clause 7.1 of the above regulations.

Filling Material: A combustion modified high resilience foam 35kg/m³ Ref: CMHR35.

Test Conditions: The test was conducted within the specified conditions of 10-30°C & 15-80% rh.

RESULTS

Application No.	Ignition Source	Flaming of Assembly	Smoke/ Smoulder	Result - Ignition/ Non-Ignition
1	5	4min 08sec	10min 00sec	PASS N/I
2	5	5min 09sec	10min 00sec	PASS N/I

COMMENTS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION
4.1a	Unsafe escalating smouldering	NO - PASS N/I
4.1c	Smoulders to extremities/ reaches either side or through full thickness of sample/ smouldering consuming the sample	NO - PASS N/I
4.1e	Smoulders >60mins from application of source	NO - PASS N/I
4.1f	Damage >100mm's from source, in any direction (other than upward)	NO - PASS N/I
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION
4.2a	Unsafe escalating combustion	NO - PASS N/I
4.2b	Test assembly consumed	NO - PASS N/I
4.2c	Flames to extremities/ reaches either side or through full thickness of sample	NO - PASS N/I
4.2e	Flames >10min from application of source	NO - PASS N/I

CONCLUSION

This sample passes the requirements of BS 5852: 2006 Clause 11 Ignition Source 5.

This composite passes the requirements of BS 7176:2007+A1:2011 for medium hazard applications.

Approved by:

Vanessa Mitchell
Technical Specialist - Flammability

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



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