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Elmo Sweden AB

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Our Ref: **TFFLF73355A***
Date: 14 June 2017
Delivery Date: 15 May 2017
Test Dates: 17 May 2017 – 09 June 2017

For the attention of Goran Garskog

SAMPLE(S) FOR TEST:

One, Composite– Ref: Elmoessence

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)

RESULT:

Pass - P 0
Pass - P 1

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TECHNICAL REPORT

DESCRIPTION

Enquiry No. TFFLF73355A*
Item: One Composite – Ref: Elmoessence
Supplied By: Elmo Sweden AB



Initial Inspection: Condition as new

Conditioning: ≥ 24 hours at $23 \pm 2^\circ\text{C}$ & $50 \pm 5\%$ rh

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

Test procedure: 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/m^3 Ref: CMHR35.

Test conditions: 21.6°C & 52.0% rh

RESULTS

BS EN 1021-1: 2006: ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE PART 1 IGNITION SOURCE: SMOULDERING CIGARETTE				
Application No.	Ignition Source	Flaming of Assembly	Smoke/Smoulder	Result Ignition/Non-ignition
1	0	N/A	26min 06sec	PASS N/I
2	0	N/A	25min 23sec	PASS N/I

OBSERVATIONS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION	APPLICATION NUMBER OF FAILING SOURCE
3.1a	Unsafe escalating combustion	NO - PASS N/I	n/a
3.1b	Test assembly consumed	NO - PASS N/I	n/a
3.1c	Smoulders to extremities/ reaches either side or though full thickness of sample	NO - PASS N/I	n/a
3.1d	Smoulders more than 1 hour	NO - PASS N/I	n/a
3.1e	Damage $>100\text{mm}$'s from source	NO - PASS N/I	n/a
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION	APPLICATION NUMBER OF FAILING SOURCE
3.2	Flaming occurs	NO - PASS N/I	n/a

CONCLUSION

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

TECHNICAL REPORT

DESCRIPTION

Enquiry No. TFFLF73355A*
Item: One Composite – Ref: Elmoessence
Supplied By: Elmo Sweden AB



Initial Inspection: Condition as new

Conditioning: ≥ 24 hours at $23 \pm 2^\circ\text{C}$ & $50 \pm 5\%$ rh

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

Test procedure: 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/m^3 Ref: CMHR35.

Test conditions: 21.5°C & 51.5% rh

RESULTS

BS EN 1021-2: 2006: ASSESSMENT OF THE IGNITABILITY OF UPHOLSTERED FURNITURE PART 2 IGNITION SOURCE: MATCH FLAME EQUIVALENT				
Application No.	Ignition Source	Flaming of Assembly	Smoke/Smoulder	Result Ignition/Non-ignition
1	1	00min 01sec	00min 02sec	PASS N/I
2	1	00min 01sec	00min 02sec	PASS N/I
3	1	00min 01sec	00min 03sec	PASS N/I

OBSERVATIONS

CLAUSE	SMOULDERING FAILURE CRITERIA	IGNITION/ NON-IGNITION	APPLICATION NUMBER OF FAILING SOURCE
3.1a	Unsafe escalating combustion	NO - PASS N/I	n/a
3.1b	Test assembly consumed	NO - PASS N/I	n/a
3.1c	Smoulders to extremities/ reaches either side or though full thickness of sample	NO - PASS N/I	n/a
3.1d	Smoulders more than 1 hour	NO - PASS N/I	n/a
3.1e	Damage $>100\text{mm}$'s from source	NO - PASS N/I	n/a
CLAUSE	FLAMING FAILURE CRITERIA	IGNITION/ NON-IGNITION	APPLICATION NUMBER OF FAILING SOURCE
3.2a	Unsafe escalating combustion	NO - PASS N/I	n/a
3.2b	Test assembly consumed	NO - PASS N/I	n/a
3.2c	Flames to extremities/ reaches either side or though full thickness of sample	NO - PASS N/I	n/a
3.2d	Flames continue beyond 120secs	NO - PASS N/I	n/a

CONCLUSION

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

Tested by: Stephen Cotton
Reported by: Nathaly Da Silva
Approved by: Stephen Cotton
Technical Specialist - Flammability

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