TECHNICAL REPORT

Unit 3 Cockerell Close
Gunnels Wood Road
Stevenage
Hertfordshire
SG1 2NB
T: +44(0) 1438 777 700
info@fira-international.com
www.fira-international.com

Sinomax (Zhejiang) Polyurethane Technology Limited
No 68 Nanxing Road
Weitang Town
Jiashan Country
Zhejiang Province
China

Our Ref: **FL – 98804-S1**
Date: 23 July 2025
Delivery Date: 16 June 2025
Test Dates: 16 June 2025 – 22 July 2025

For the attention of Hua Long

SAMPLE(S) FOR TEST:

One, Foam – Ref: R001/20250521

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:	**RESULT:**
Schedule 1 Part I (based on BS 5852: 1982 Part 2)	Pass - P5

FIRA International is a UKAS TESTING Laboratory No. 0174
Tests marked "Not UKAS Accredited" in this Report are not included in the UKAS Accreditation Schedule for our laboratory.
Technical report references marked * indicate this report is supplementary to the previous report with the same reference.
Opinions and interpretations expressed herein are outside the scope of UKAS Accreditation.
This Report relates to the sample(s) submitted for test and no others. Additions, deletions or alterations are not permitted.
Test reports are given to the client in confidence, and may only be reproduced in whole or in part with written permission from FIRA International Limited. Note that the words "**tested by FIRA International**" may be used in subsequent publicity for the product; "approved" must **not** be used.

Tests are carried out on the understanding that neither FIRA International Limited nor its officers can accept any legal responsibility for information or advice given or opinions expressed whether in response to specific enquiries or otherwise. This Report is given subject to the Terms of Business of FIRA International Limited which are available at https://www.fira.co.uk/images/FIRA-International-Limited-Standard-Terms-of-Business-2018.pdf
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 ≤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"

FIRA International
Registered office: 3rd Floor Davidson Building, 5 Southampton Street, London, United Kingdom, WC2E 7HA.
Registered in England No: 3181481

TECHNICAL REPORT

DESCRIPTION

Enquiry No. FL - **98804-S1**

Item: Foam – Ref: R001/20250521

Supplied by: **Sinomax (Zhejiang) Polyurethane Technology Limited**

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.

FURNITURE AND FURNISHINGS (FIRE) (SAFETY) REGULATIONS 1988 - AMENDED 1989, 1993 AND 2010 SCHEDULE 1 PART 1 FOR POLYURETHANE FOAM (BASED ON BS 5852: 1982 PART 2)

Initial Inspection: Condition as new.

Conditioning: ≥3 days at indoor ambient conditions and ≥16 hours at 20±5°C & 50±20% rh.

Test Procedure: Test rig - as specified in 6.1.1 of BS 5852-2: 1982, foam sample and covered with a FR polyester material as specified in paragraph 2 of Schedule 1 Part 1 of the above regulations (as amended).

Test Conditions: The test was conducted within the specified conditions of 15-30°C & 20-70% rh.

RESULTS

Ignition Source No.	App No.	Flaming of Assembly	Smoke/ Smoulder	Result - Ignition/ Non-Ignition
5	1	3min 05sec	10min 00sec	PASS N/I
	2	4min 20sec	11min 50sec	PASS N/I

Application	Initial Weight (kg)	Final Weight (kg)	Total Mass Loss (kg)
1	6.243	6.217	0.026
2	6.240	6.206	0.034

COMMENTS

CLAUSE	SMOULDERING CRITERIA	App 1.	App 2.
4.1b	Smoke/ smoulder >than 60min after ignition of crib	NO - PASS N/I	NO - PASS N/I
4.1c	Unsafe escalating smouldering	NO - PASS N/I	NO - PASS N/I
4.1d	Test assembly consumed	NO - PASS N/I	NO - PASS N/I
4.1e**	Smoulders to either side of the lower margins or through full thickness	NO - PASS N/I	NO - PASS N/I
4.1f**	Charring/ other than discolouration extending more than 100mm, other than upwards from position of the crib	NO - PASS N/I	NO - PASS N/I
CLAUSE	**FLAMING CRITERIA**	**App 1.**	**App 2.**
4.2b	Flaming >10 min from ignition of crib	NO - PASS N/I	NO - PASS N/I
4.2d	Unsafe escalating combustion	NO - PASS N/I	NO - PASS N/I
4.2e	Test assembly consumed	NO - PASS N/I	NO - PASS N/I
4.2f**	Flames through full thickness/ flames reach lower margin	NO - PASS N/I	YES - PASS N/I

**Flames penetrated the full thickness of the sample, however the resultant mass loss was less than 60g, as stipulated in paragraph 6 of schedule 1 part 1 of the Furniture and Furnishings (Fire) (Safety) Regulations 1988, amended

CONCLUSION

On the basis of the test carried out this polyurethane slab foam Ref: R001/20250521, passes the flammability performance requirements of the test specified in Schedule 1 Part I of the Furniture and Furnishings (Fire) (Safety) Regulations 1988, amended 1989, 1993 and 2010.

Approved by: Luis Mitchell
Senior Technician - Flammability

L. Mitchell

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