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检测
TESTING
CNAS L4743

TEST REPORT

No.: AJFTS26005895R01_EN

Date: Aug 03,2026

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WHALESSENS TECHNOLOGY CO., LTD.

NO.102 BEIXIN STREET, MAYING VILLAGE, LAODIAN TOWN, HUYI DISTRICT, XI'AN, SHAANXI, CHINA

Sample Description : Polyurethane sponge
Color : Black
Thickness : 10mm
Composition : Polyurethane
Style/Item No. : /

The above sample(s) data and information was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

SGS Ref. No. : SHFTS26000857R02
Sample Receiving Date : Jul 21,2026
Testing Period : Jul 21,2026 to Jul 30,2026
Test Required : UL 94-2024, Standard for safety, tests for Flammability of Plastic Materials for Parts in Devices and Appliances, clause 12, Horizontal Burning Foamed Material Test; HBF, HF-1, HF-2.
Test result(s) : See attached sheet
Conclusion : According to the test results and the classification system, the tested sample, when tested at a normal thickness of 10.00mm, **meets** the requirements of "UL 94, HF-1".

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd Anji Branch

Eva

Eva Zhang
Approved signatory



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I. Test conducted

This test was conducted in accordance with UL 94-2024, Standard for safety, Tests for Flammability of Plastic Materials for Parts in Devices and Appliances, clause 12, Horizontal Burning Foamed Material Test; HBF, HF-1, or HF-2.

II. Scope of test

The requirements of UL 94 cover tests for flammability of polymeric materials used for parts in devices and appliances. They are intended to serve as a preliminary indication of their acceptability with respect to flammability for a particular application. The final acceptance of the material is dependent upon its use in complete equipment that conforms with the standards applicable to such equipment.

III. Sample details

Sample description	Polyurethane sponge
Color	Black
Area density	256 g/m ²
Size of sample	Length 150mm Width 50mm Thickness 10.00mm

IV. Conditioning

Prior to testing:

Five specimens were conditioned for at least 48 h at a temperature of 23±2°C and a relative humidity of 50±10%,

Five specimens were conditioned in a circulating air oven for 168± h at 70±2°C and then cooled in the desiccator for at least 4 h at room temperature.

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V. Test Results

1) Conditioned at: T: 23±2°C, R.H.: 50±10 %, at least 48 h

Specimen No.	1	2	3	4	5
Afterflame, t1, seconds	0	0	0	0	0
Afterglow, t2, seconds	0	0	0	0	0
t1+t2, seconds	0	0	0	0	0
Whether the flame front passed the 25 mm mark	No	No	No	No	No
Whether the flame front passed the 60 mm mark	No	No	No	No	No
Whether the flame front passed the 125 mm mark	No	No	No	No	No
t _b , seconds	NA	NA	NA	NA	NA
L _b , mm	NA	NA	NA	NA	NA
Burning Rate, mm/min	NA	NA	NA	NA	NA
Whether or not specimens drip flaming particles that ignited the cotton indicator	No	No	No	No	No



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2) Oven at: 70±2°C 168±2 h and then cooled in the desiccators for at least 4h

Specimen No.	1	2	3	4	5
Afterflame, t1, seconds	0	0	0	0	0
Afterglow, t2, seconds	0	0	0	0	0
t1+t2, seconds	0	0	0	0	0
Whether the flame front passed the 25 mm mark	No	No	No	No	No
Whether the flame front passed the 60 mm mark	No	No	No	No	No
Whether the flame front passed the 125 mm mark	No	No	No	No	No
t _b , seconds	NA	NA	NA	NA	NA
L _b , mm	NA	NA	NA	NA	NA
Burning Rate, mm/min	NA	NA	NA	NA	NA
Whether or not specimens drip flaming particles that ignited the cotton indicator	No	No	No	No	No

Note:

t1: Afterflame time, s

t2: Afterglow, s

t_b: means the duration of burning between the 25 mm until flaming or glowing stops or passes the 125 mm gauge mark.

L_b: means the distance between the 25 mm gauge mark and where flaming or glowing stops, or up to the 125 mm mark, and if the 125 mm mark was reached.

NA: Not Applicable

MATERIALS CLASSIFIED HBF – Materials classified HBF shall:

- a) Not have any specimens with a burning rate exceeding 40 mm per minute over a 100 mm span, or
- b) Have each specimen cease to burn before flaming or glowing reaches the 125 mm gauge mark.



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MATERIALS CLASSIFIED HF-1 and HF-2

Criteria Conditions	HF-1	HF-2
Afterflame time, t1	4/5 is $\leq$ 2 s	4/5 is $\leq$ 2 s
	1/5 is $\leq$ 10 s	1/5 is $\leq$ 10 s
Afterflame time plus afterglow time for each individual specimen, t1 + t2	$\leq$ 30 s	$\leq$ 30 s
Cotton indicator ignited by flaming particles or drops	No	Yes
Damaged length for each individual specimen ^a	< 60 mm	< 60 mm

Notes:

4/5 – Four out of a set of five specimens.

1/5 – One out of a set of five specimens.

- a. In cases where upper and lower side of the specimen shows different extent of damage, the side (face) with the higher extent of damaged length shall be considered for the classification rating.

STATEMENTS:

This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

The test results only to the ignitability of the sample or combination of materials under the particular condition of test. They are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

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Photo Appendix:



SGS authenticate the photo on original report only

End of Report



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