

Test Report

Report No.: AJFS2412014888FF

Date: DEC.18, 2024

Page 1 of 5

SINO MATERIAL (JIANGSU) TECHNOLOGY CO., LTD.

NO. 2 WOLONG ROAD, LAILONG TOWN, NEW MATERIALS INDUSTRIAL PARK, SUYU DISTRICT,
SUQIAN CITY, JIANGSU PROVINCE, CHINA

Sample Description: WHITE PE INSULATION PIPE FOR AIR CONDITIONER

SGS Ref No.: AJHL2412005738FT

Style/Item No.: /

Manufacturer Name: SINO MATERIAL (JIANGSU) TECHNOLOGY CO., LTD.

The above sample(s) 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.

Test Requested:

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 Results: -- See attached sheet --

Test Period:

Sample Receiving Date : DEC.06, 2024

Test Performing Date : DEC.06, 2024 TO DEC.17, 2024

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

Echo

Echo Li
Approved Signatory

Scan to see the report



AJFS2412014888FF
Verification:
check.sgsonline.com.cn



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.
Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com
No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgsgroup.com.cn
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 sgs.china@sgs.com

Test Report

Report No.: AJFS2412014888FF

Date: DEC.18, 2024

Page 2 of 5

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	WHITE PE INSULATION PIPE FOR AIR CONDITIONER (provided by client)
Color	White
Size of sample*	Length 130mm Width 85.0mm Thickness: (48.00-38.00)mm

*The sample is non-standard size, test results only for reference.

IV. Conditioning

Prior to testing:

Five specimens were conditioned for at least 48 h at a temperature of $23\pm 2^{\circ}\text{C}$ and a relative humidity of $50\pm 10\%$,

Five specimens were conditioned in a circulating air oven for $168\pm$ h at $70\pm 2^{\circ}\text{C}$ and then cooled in the desiccator for at least 4 h at room temperature.



Test Report

Report No.: AJFS2412014888FF

Date: DEC.18, 2024

Page 3 of 5

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

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



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <https://www.sgs.com/en/Terms-and-Conditions>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention: To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

SGS-CSG (China) Technical Service Co., Ltd.
Anji Branch

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 313300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com.cn
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 313300 t (86-572) 5018825 f (86-572) 5018829 sgs.china@sgs.com

Test Report

Report No.: AJFS2412014888FF

Date: DEC.18, 2024

Page 4 of 5

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.

MATERIALS CLASSIFIED HF-1 and HF-2

Criteria Conditions	HF-1	HF-2
Afterflame time, t1	4/5 is ≤ 2 s 1/5 is ≤ 10 s	4/5 is ≤ 2 s 1/5 is ≤ 10 s
Afterflame time plus afterglow time for each individual specimen, t1 + t2	≤ 30 s	≤ 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:

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.



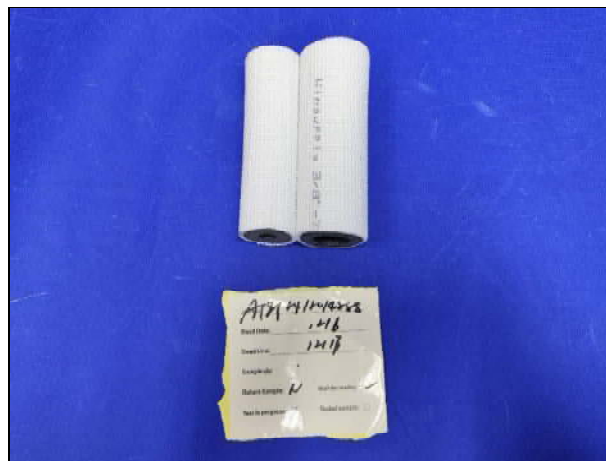
Test Report

Report No.: AJFS2412014888FF

Date: DEC.18, 2024

Page 5 of 5

Photo Appendix:



SGS authenticate the photo on original report only

End of Report