



中国认可
国际互认
检测
TESTING
CNAS L4743

Test Report

No. AJFS2004002544FF

Date: OCT.08, 2021

Page 1 of 5

NINGBO SUPU ELECTRONICS CO., LTD.

NO.625, XINGZHEN STREET, KANDUN, CITY, ZHEJIANG, CHINA

Sample Name: PA66

SGS Ref No.: IDBTJRS2020040011

Style/Item No.: /

Material: PA66

Color: WHITE

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:

EN 45545-2:2013+A1:2015 Railway applications—Fire protection on railway vehicles Part 2: Requirements for fire behaviour of materials and components, and testing according to Table 5 — Material requirement sets (R26).

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : APR.14, 2020

Test Performing Date : APR.14, 2020 TO APR.21, 2020

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

Allen Zou
Approved Signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.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 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

No. AJFS2004002544FF

Date: OCT.08, 2021

Page 2 of 5

I. Description of Test specimens

Sample Description	Nylon
Color	White
Size of specimens	125mm×13mm×0.9mm

II. Summary of test results

Short name of requirement set (used for)	Test method reference	Parameter and Unit	Test results *
R26 (EL10)	T17 EN 60695-11-10	Vertical small flame test	V-0

* For the test details, please see the appendix of this test report.

III. Conclusion

According to the test results, the submitted sample **meets** the requirements of R26 (detailed in Table 5 of EN 45545-2:2013+A1:2015) for **HL3** Hazard Level Classification.

Test Criteria for EN 45545-2:2013+A1:2015 Table 5 Material requirement sets (R26)

Requirement set (used for)	Test method reference	Parameter Unit	Requirement Definition	HL1	HL2	HL3
R26 (EL10)	T17 EN 60695-11-10	Vertical small flame test	Minimum	V-0	V-0	V-0

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 relate to the behaviour of the test specimens of a product under the particular conditions of the test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

To be continued...



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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 CSTC (Shanghai) Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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 e sgs.china@sgs.com

Test Report

No. AJFS2004002544FF

Date: OCT.08, 2021

Page 3 of 5

APPENDIX: T17 EN 60695-11-10:2013 Fire hazard test—Part 11-10: Test flames-50W horizontal and vertical flame test methods, Clause 9 Test method B – Vertical burning test.

1. Conditioning

Condition1: Five specimens were conditioned for at least 48h at a T: 23±2℃, R.H: 50±10%;

Condition2: Five specimens were conditioned in an air-circulating air oven for 168 h±2h at 70±2 °C and then cooled in the desiccator for at least 4 h at room temperature.

2. Test results

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

Specimen No.	t ₁ (seconds)	t ₂ (seconds)	t ₃ (seconds)	Whether or not specimens burn up to the holding clamp	Whether or not specimens drip flaming particles that ignited the cotton indicator
1	0	0	0	No	No
2	0	0	0	No	No
3	0	0	0	No	No
4	0	0	0	No	No
5	0	0	0	No	No

2) Conditioned at: T: 70± 2℃ 168h and then cooled in the desiccators for at least 4h

Specimen No.	t ₁ (seconds)	t ₂ (seconds)	t ₃ (seconds)	Whether or not specimens burn up to the holding clamp	Whether or not specimens drip flaming particles that ignited the cotton indicator
1	0	0	0	No	No
2	0	0	0	No	No
3	0	0	0	No	No
4	0	0	0	No	No
5	0	0	0	No	No

Where, t1: Afterflame time after first flame application;

t2: Afterflame time after second flame application;

t3: Afterglow time after second flame application.

To be continued...



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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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-CSTC (Shanghai) Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

No. AJFS2004002544FF

Date: OCT.08, 2021

Page 4 of 5

Criteria for vertical burning classification

Criteria conditions	V-0	V-1	V-2
Individual test specimen afterflame times (t_1 , t_2)	≤10s	≤30s	≤30s
Total afterflame time t_f for any conditioned set of five specimens	≤50s	≤250s	≤250s
Individual test specimen afterflame time plus afterglow time after the second application ($t_2 + t_3$)	≤30s	≤60s	≤60s
Afterflame and/or afterglow of any specimen burned to the holding clamp	No	No	No
Cotton indicator pad ignited by flaming particles or drops	No	No	Yes

Classification:

[√] V-0, [] V-1, [] V-2, [] Fail

To be continued...



SGS CSTC (Shanghai) Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.sgs.com
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 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

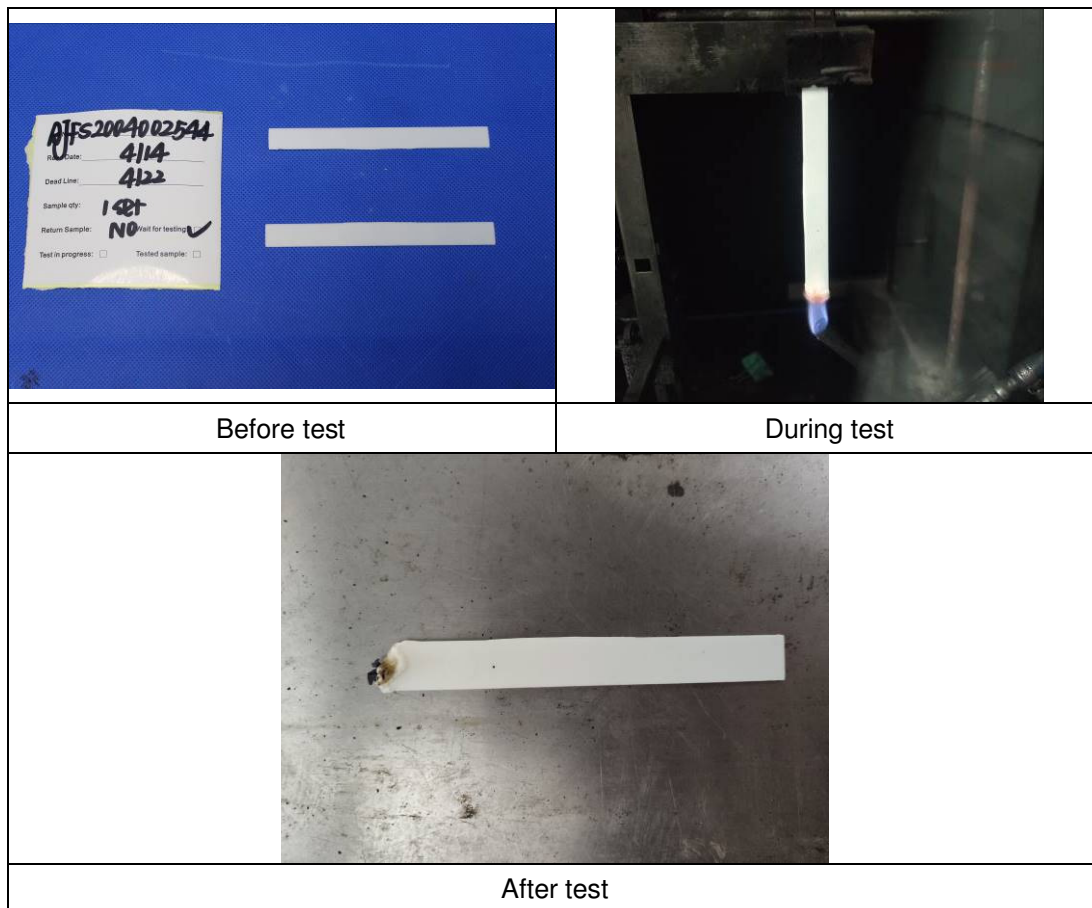
Test Report

No. AJFS2004002544FF

Date: OCT.08, 2021

Page 5 of 5

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



SGS CSTC (Shanghai) Technical Services Co., Ltd.
Anji Branch Fire Technology Service

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 <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. 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.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 e sgs.china@sgs.com