

TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 1 of 7

CUSTOMER NAME: EAST BEST ADVANCED MATERIAL CO.,LTD
ADDRESS: NO.269 SISHAN ROAD CIXI,NINGBO,CHINA 315300

This Report cancels and supersedes the Report No.: SHIN1501000993PS dated: Jan 26, 2015 issued by SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

The following sample(s) was/ were submitted and identified on behalf of the client as:

Sample Name : East Best PVC stretch ceiling film
Product Specification : 0.18mm
Product or Lot No. : 0011
Manufacturer : EAST BEST ADVANCED MATERIAL CO.,LTD
Material and Mark : 0011
Date of Receipt : Jan 08, 2015
Testing Start Date : Jan 08, 2015
Testing End Date : Jan 26, 2015
Test result(s) : For further details, please refer to the following page(s)

Signed for
SGS-CSTC Standards Technical
Services (Shanghai) Co., Ltd.

Zano Lai
Authorized signatory



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 Standards Technical Services (Shanghai) Co., Ltd.
Testing Center (Zaozhi) (Shanghai)

No.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn
中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 2 of 7

Test Item:

To determine the flammability (building materials class B1) in accordance with DIN 4102-1 (May 1998) Fire behaviour of building materials and elements Part 1: Classification of building materials, Requirements and testing

I. Test conducted

This test was conducted as per DIN 4102-15:1990 DIN 4102-16:1998 and DIN 4102-1:1998 Clause 6.2.

Classification in according to DIN 4102-1 (May 1998) Clause 6.1-Class B1 materials.

II. Sample details

| | |
|-----------------------------|--------------------------------------------|
| General description / Color | East Best PVC stretch ceiling film / White |
| Area Density | 250g/m ² |
| Size of sample | 1000mm×190mm & 190mm×90mm |

Conditioning

Prior to testing, the sample was conditioned at least 14 days to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 6 %.

III. Test results

1) "Brandschacht" Test according to DIN 4102-15 & 16

Exposed surface: The front face



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.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 3 of 7

| Results of "Brandschacht" Test (part 1) | | | | | | |
|-----------------------------------------|-----------------------------------------------------------------|-------|---------------------|---|---|---|
| Line No. | | Unit | Test assemblies No. | | | |
| | | | A | B | C | D |
| 1 | Specimen fixings according to DIN 4102 part 15, table | - | 1 | | | |
| 2 | Max. flame height above lower sample edge; | cm | 50 | | | |
| 3 | Time ¹⁾ | min:s | 00:12 | | | |
| 4 | <u>Melting/burning through</u> Time ¹⁾ | min:s | 00:01 | | | |
| 5 | <u>Back of specimen</u> Flaming/glowing, Time ¹⁾ | min:s | 00:01 | | | |
| 6 | Discolouring, Time ¹⁾ | min:s | 00:02 | | | |
| 7 | <u>Burning droplets</u> Begin ¹⁾ <u>Amount</u> | min:s | NO / / | | | |
| 8 | Specimen material falling off in separate droplets | | / | | | |
| 9 | Specimen material falling off continuously | | / | | | |



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-Document.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.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 4 of 7

| Results of "Brandschacht" Test (part 2) | | | | | | |
|-----------------------------------------|-------------------------------------------------------------|-------|---------------------|---|---|---|
| Line No. | | Unit | Test assemblies No. | | | |
| | | | A | B | C | D |
| | <u>Burning parts</u> | | NO | | | |
| 10 | Begin 1) | min:s | / | | | |
| 11 | Parts of sample falling off separately | | / | | | |
| 12 | Parts of sample falling off continuously | | / | | | |
| 13 | Duration of continued combustion on mesh base (max.) | min:s | NO | | | |
| | <u>Burner flame impairment by dripping/falling material</u> | | NO | | | |
| 14 | Time ¹⁾ | min:s | / | | | |
| | <u>Premature ending of test</u> | | / | | | |
| 15 | End of burning at specimen ¹⁾ | min:s | / | | | |
| 16 | Time when test terminated (if applicable) ¹⁾ | min:s | / | | | |
| | <u>Burning after end of test</u> | | NO | | | |
| 17 | Duration | min:s | / | | | |
| 18 | Number of specimens | | / | | | |
| 19 | Front of specimen | | / | | | |
| 20 | Back of specimen | | / | | | |
| 21 | Height of flame | cm | / | | | |
| | <u>Glowing after end of test</u> | | NO | | | |
| 22 | Duration | min:s | / | | | |
| 23 | Number of specimens | | / | | | |
| 24 | Front of specimen | | / | | | |
| 25 | Back of specimen | | / | | | |
| 26 | Top half of specimen | | / | | | |
| 27 | Bottom half of specimen | | / | | | |



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.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 5 of 7

| Results of "Brandschacht" Test (part 3) | | | | | | | | | |
|-----------------------------------------|-------------------------------|---------------------|----|---|--|---|--|---|--|
| Line No. | Unit | Test assemblies No. | | | | | | | |
| | | A | | B | | C | | D | |
| 28 | <u>Residual length</u> | | | | | | | | |
| | Single results | 58 | 57 | | | | | | |
| | | 57 | 56 | | | | | | |
| 29 | Average of the single results | 57 | | | | | | | |
| 30 | <u>Smoke temperature</u> | | | | | | | | |
| | Max. of average | 135 | | | | | | | |
| 31 | Time ¹⁾ | 4:09 | | | | | | | |

Note: ¹⁾ time from start of testing

2) Normal Flammability Test according to DIN 4102-1 Clause 6.2

Flame application: [] bottom edge ignition, [] surface ignition

| Specimen No. | 1 | 2 | 3 | 4 | 5 |
|-----------------------------------------------|--------|----|----|----|----|
| Reaching the measuring mark within 20 seconds | No | No | No | No | No |
| Self extinguishing of the flame (s) | 15 | 15 | 15 | 15 | 15 |
| Max. flame height (cm) | 8 | 10 | 7 | 8 | 9 |
| End of afterflaming (s) | 15 | 15 | 15 | 15 | 15 |
| End of afterglowing (s) | 15 | 15 | 15 | 15 | 15 |
| Molten dripping | No | No | No | No | No |
| Smoke developments (visual impression) | Slight | | | | |

All timings are from start of testing.



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-Document.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.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn
 中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 6 of 7

Criteria for classification for Class B1 (DIN 4102-1 Clause 6.1.2)

All materials, except flooring, may be classed as B1 materials if they met,

- a) Pass DIN 4102-16 "brandschacht" test if
 - 1) The mean value for the residual length of each specimen is at least 15 cm, and no individual values are lower than 0 cm;
 - 2) The mean effluent temperature does not exceed 200°C in any test;
 - 3) The requirement for the residual length of each specimen is met even where there is afterflame, afterglow, or smouldering.
- b) Pass DIN 4102-1 Clause 6.2.3 Ignitability Test if,
For each specimen, flaming doesn't reach the gage mark within 20s after flame application.

STATEMENTS:

This test report does not replace any mandatory certification of the product that may be required.

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 and smoke hazard of the product in use.

Conclusion: The tested sample **meets** the low flammability requirements of class B1 of building materials under DIN 4102-1 (May 1998).



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.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com.cn
中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com

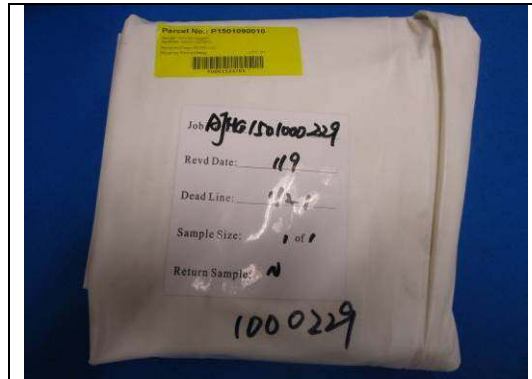
TEST REPORT

No. : SHIN1501000993PS-01

Date : Feb 06, 2015

Page: 7 of 7

Sample Photo:



The test was performed by SGS internal laboratory.

***** End of report*****



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.69, Block 1159, East Kang Qiao Road, Pudong District, Shanghai, China 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 www.sgs.com
中国·上海·浦东康桥东路1159弄69号 邮编: 201319 t(86-21) 61196300 f(86-21) 68183122/68183920 e sgs.china@sgs.com