

Test Report No. AJHG1411003062FB Date: NOV.24, 2014 Page 1 of 5

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

Sample Description: POLYESTER FABRIC WITH COATING

Type/Style: ST-HT-HB180-V2

Color: WHITE Density: 180gsm Thickness: 230µm

Composition: 55% POLYESTER, 45% COATING

## **Test Requested:**

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

Test Results: -- See attached sheet --

# Conclusion:

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

# Test Period:

Sample Receiving Date : NCV.07, 2014

Test Performing Date : NOV.07, 2014 TO NOV.21, 2014

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

Allen Zou

Technical Manager



This decement is issued by the Company subject to its Geneal Conditions of Service printed overleef, available on request or accessible in http://www.aga.com/em/farmi-and-Conditions.aspx and, for electronic formal documents, subject to flarms and Conditions for Electronic commands at http://www.aga.com/em/farmi-and-Conditions/retronic-e-Document.asp. Allection is an arown to the institution of superior indemnification and jurisdiction invested electronic subject of the document is advised that information contained hereon intends to Company's findings at the time of its intervention only and within he linits of Client's instructions, if any. The Company's site responsibility is to its Client and this document does not excensible parties to a transaction from overroking all their rights and obligations under the transaction documents. This document does not excensible parties to a transaction from overroking all their rights and obligations under the transaction documents. This document does not excensible parties to a transaction from overroking all their rights and obligations under the transaction documents. This document does not excended the content or appearance of fine document is unlawful and offenders may be prosecuted to the foliate stent of the law. Unless otherwise stated the results shown in this test report roter only to the sample(s) tested and such sample(s) and relating the Total Client and the sample(s) and relating the first obligation of the document is unlawful and offenders may be presented to the foliate.



# **Test Report**

No. AJHG1411003062FB

Date: NOV.24, 2014

Page 2 of 5

#### 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

Name	POLYESTER FABRIC WITH COATING
Density / Color	220g/m <sup>2</sup> / White
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  $50 \pm 6$  %.

#### III. Test results

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

Exposed surface: The front face

	Results of "Brandschacht" Test (part 1)					
Line		Unit	Test assemblies No.			
No.		Offic	Lengthwise	Widthwise		
1	Specimen fixings according to DIN 4102 part 15, table	1	1	1		
2	Max. flame height above lower sample edge;	cm	40	40		
3	Time 1)	min:s	0:27	0:38		
	Melting/burning through					
4	Time 1)	min:s	0:17	0:18		
	Back of specimen					
5	Flaming/glowing, Time 1)	min:s	0:17	0:18		
6	Discolouring, Time 1)	min:s	0:18	0:19		
	Burning droplets		No	No		
7	Begin 1)	min:s	/	/		
	<u>Amount</u>		/	/		
8	Specimen material falling off in separate droplets		/	/		
9	Specimen material falling off continuously		1	/		

To be continued...



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document to discussed 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 excising 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 atteration, foregry 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, \*\*Attention:\*\*To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, \*\*Totalogical Properties of the content of the law. Unless otherwise states of the content of the law. Unless otherwise states the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

uthenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443,

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 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)



**Test Report** Date: NOV.24, 2014 No. AJHG1411003062FB Page 3 of 5

	Results of "Brandscha	acht" Tes	t (part 2)		
Line		Unit		mblies No.	
No.		Onne	Lengthwise	Widthwise	
	Burning parts		No	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	No	
	Burner flame impairment by dripping/falling material		No	No	
14	Time 1)	min:s	/	/	
	Premature ending of test		/	/	
15	End of burning at specimen 1)	min:s	/	/	
16	Time when test terminated (if applicable) 1)	min:s	/	/	
	Burning after end of test		No	No	
17	Duration	min:s	/	/	
18	Number of specimens		/	/	
19	Front of specimen		/	/	
20	Back of specimen		/	/	
21	Height of flame	cm	/	/	
	Glowing after end of test		No	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		/	/	

To be continued...



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <a href="http://www.sgs.com/en/Terms-and-Conditions.aspx">http://www.sgs.com/en/Terms-and-Conditions.aspx</a> and, for electronic format documents, subject to Terms and Conditions of Electronic Documents at <a href="http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx">http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx</a>. 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 context use and content is unlawful.

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 e sgs.china@sgs.com



**Test Report** No. AJHG1411003062FB Date: NOV.24, 2014 Page 4 of 5

Results of "Brandschacht" Test (part 3)							
Line		Unit -	Test assemblies No.				
No.		Offit	Lengthwise		Widthwise		
	Residual length						
28 Single results	Cinale regulte	cm	67	68	68	67	
	Single results		67	66	69	68	
29	Average of the single results	cm	67		68		
	Smoke temperature						
30	Max. of average	$^{\circ}$	139		141		
31	Time 1)	min:s	10:00		10:00		

Note: 1) time from start of testing

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

<u>Flame application:</u> [  $\sqrt{\ }$  ] bottom edge ignition, [ ] surface ignition

٧.	Lengthwise	(if applicable)	

1 1 Lenginwise (ii applicable)					
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)	12	11	12	13	12
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				

# [ √ ] Widthwise (if applicable)

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)	12	13	10	13	12
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		

To be continued...



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 e sgs.china@sgs.com



# Test Report No. AJHG1411003062FB Date: NOV.24, 2014 Page 5 of 5

All timings are from start of testing

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.
- 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.

#### **Photo Appendix:**



SGS authenticate the photo on original report only

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



This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible thtp://www.sgs.com/en/Terms-and-Conditions appx 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 form exercising all their rights and obligations under the stansaction documents. This document cannot be reproduced except in full, without prior withen 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 system 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 etained 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 e sgs.china@sgs.com