

No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 1 of 8

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

Sample Name : PET ACOUSTIC PANEL

Sample Number : SHCCM160200598

Test Required : EN 13501-1:2007+A1:2009 Fire classification of construction products and

building elements—Part 1: Classification using data from reaction to fire tests,

class B.

Product specification : 2440x1220x9mm

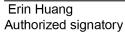
Date of Receipt : Feb. 23, 2016

Test Period : Feb. 23, 2016 to Mar. 22, 2016

Test result(s) : For further details, please refer to the following page(s)

****** To be continued******

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







No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 2 of 8

I. Test conducted

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- 1. EN 13823:2010 Reaction to fire tests for building products Building products excluding floorings exposed to the thermal attack by a single burning item.
- 2. EN ISO 11925-2:2010 Reaction to fire tests Ignitability of building products subjected to direct impingement of flame Part 2: Single-flame source test.
- II. Details of classified product
- a) Nature and end use application

The product "PET ACOUSTIC PANEL" is defined as sound absorbing and decorative materials. It's used as sound absorbing and decorative materials. End use application: interior wall, ceiling, office furniture, etc., but not limited to the above products.

b) Description

The details of the product given above have been prepared from information provided by the sponsor of the test.

Color	Beige
Thickness	9.4mm
Mass per unit area	About 2.2kg/m ²

Mounting and fixing:

Fire cement board, with its density approximate 1800kg/m³, thickness 6mm, is as the substrate. The test specimens are fixed mechanically to be substrate with screws. No joint in the long wing.





No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 3 of 8

III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA (W/s)		42.5
	LFS < edge of specimen	3	Yes
	THR _{600s} (MJ)		4.6
	SMOGRA (m²/s²)		0
	TSP _{600s} (m ²)		25.0
	Flaming particles or droplets		No

Test method	Parameter	Specimen number	Results
EN ISO 11925-2	<i>F</i> s ≤ 150 mm	6	Yes
Exposure = 30 s	Ignition of the filter paper	· ·	No

IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

a) Classification

The product, PET ACOUSTIC PANEL, classification is as following,

Fire behaviour	Smoke production			Flan	ning droplets
В	S	1	,	d	0

Reaction to fire classification: B-s1, d0

Remark: The classes with their corresponding fire performance are given in annex A.





SHCCM160200598 No. :

Date: Mar. 22, 2016

Page: 4 of 8

b) Field of application

This classification for the submitted sample is valid for the following end use condition:

- --- With all substrates classified A1 and A2
- --- With screws to the substrate in mounting for fixing
- --- No joint

This classification is valid for the following product parameters:

---Characteristics of various layers identical to those as described in § II b) of this test reports.

Statement: 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.

Warning:

This classification report does not represent type approval or certification of the product.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.





No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 5 of 8

Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products

Class	Test method(s)		Classification criteria	Additional classification
	EN ISO 1182 ^a and		Δ <i>T</i> ≤30°C, and Δ <i>m</i> ≤50%, and	
			t _r =0(i.e. no sustained flaming)	-
A1 EN ISO 1716			PCS≤2.0MJ/kg ^a and PCS≤2.0MJ/kg ^{b c} and PCS≤1.4MJ/m ^{2 d} and PCS≤2.0MJ/kg ^e	-
EN ISO 1182 a or EN ISO 1716 EN 13823			Δ <i>T</i> ≤50°C, and Δ <i>m</i> ≤50%, and t _≤ 20 s	-
	EN ISO 1716	and	PCS≤3.0MJ/kg ^a and PCS≤4.0MJ/m ^{2 b} and PCS≤4.0MJ/m ^{2 d} and PCS≤3.0MJ/kg ^e	-
		FIGRA≤120W/s and LFS <edge of="" specimen<br="">and THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g	
В	EN 13823 and		FIGRA≤120W/s and LFS <edge of="" specimen<br="">and THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 i Exposure =30s		Within 60s <i>F</i> s≤150mm	

****** 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 which is the first of the company subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx that the company is often into the company is often the company and the transaction document does not exonerate parties to a ransaction 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 of appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the esuits shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.



No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 6 of 8

Class	Test method(s)		Classification criteria	Additional classification	
	EN 13823	and	FIGRA≤250W/s and LFS <edge and<="" of="" specimen="" td=""><td></td></edge>		
С			THR _{600s} ≤15MJ	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2	I	<i>F</i> s≤150mm within 60 s	a option, particles	
	Exposure=30s		7 52 Teermin within 66 5		
	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and Flaming	
D	EN ISO 11925-2 ¹		<i>F</i> s≤150mm within 60 s	droplets/particles ^g	
	Exposure=30s		7 G= 100111111 WW.III.1 00 0		
Е	EN ISO 11925-2	I	<i>F</i> s≤150mm within 20 s	Flaming droplets/particles ^h	
	Exposure =15s				
F	No performance determined				

^a For homogeneous products and substantial components of non-homogeneous products.

 $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$; s3 = not s1 or s2

d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

Fail = ignition of the paper (d2 classification).

****** 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 https://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents subject to Terms and Conditions for Electronic Documents at https://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 stransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced stransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced stransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced stransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced stransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced stransaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced stransaction from exercising all their rights and obligations under the transaction for the transa

^b For any external non-substantial component of non-homogeneous products.

^c Alternatively, any external non-substantial component having a PCS ≤ 2,0 MJ/m², provided that the product satisfies the following criteria of EN 13823: FIGRA ≤ 20 W/s, and LFS < edge of specimen, and THR_{600s} ≤ 4,0 MJ, and s1, and d0.

^d For any internal non-substantial component of non-homogeneous products.

^e For the product as a whole.

^f In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.

g d0 = No flaming droplets/ particles in EN 13823 within 600 s;

h Pass = no ignition of the paper (no classification);

ⁱ Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.



No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 7 of 8

Test photos:





Before test

After test





No.: SHCCM160200598

Date: Mar. 22, 2016

Page: 8 of 8





Before test

After test

Note: The test was performed by SGS other internal laboratory.

Statement: Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

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



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-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 oxercising all their rights and obligations under the transaction documents. This document cannot be reproduced 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,