

Test Report No. AJFS1806005597FF Date: JUN.28, 2018 Page 1 of 6

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

Sample Description: POLYESTER FIBER ACOUSTIC PANEL

SGS Ref No.: NJIN1806002443ML

Style/Item No.: /

Test Requested:

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

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : JUN 07, 2018

Test Performing Date : JUN 07, 2018 TO JUN.25, 2018

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

Allen Zou

Technical Manager



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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+A1:2014 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+Cor1:2011 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 "Polyester Fiber Acoustic Panel" is defined as decorative sheet. Its end use application: Indoor metope acoustic decoration material.

b) Description

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

Name	Polyester Fiber Acoustic Panel		
Color	Grey		
Thickness	12.3 mm		
Mass per unit area	About 2.4 kg/m ²		

Mounting and fixing:

Calcium silicate board, with its density approximate 900kg/m³, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate. No joint in the long wing of the specimen.

III. Test results

Test method	Parameter	Number of tests	Results
	FIGRA _{0.2MJ} (W/s)		0.0
	FIGRA _{0.4MJ} (W/s)		0.0
EN 13823	LFS < edge of specimen		Yes
	THR _{600s} (MJ)	3	0.6
	SMOGRA (m ² /s ²)		0.0
	TSP _{600s} (m ²)		3.5
	Flaming particles or droplets		No





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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	- 6	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, Polyester Fiber Acoustic Panel, classification is as following,

Fire behaviour		Smoke production			Flaming 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.

b) Field of application

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

- --- With all substrate classified as A1 and A2
- --- With mechanically 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.

To be continued...





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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	△ <i>T</i> ≤30°C, and △ <i>m</i> ≤50%, and t _f =0(i.e. no sustained flaming)	-	
A1	EN ISO 1716		$PCS\leq 2.0$ MJ/kg a and $PCS\leq 2.0$ MJ/kg bc and $PCS\leq 1.4$ MJ/m 2 and $PCS\leq 2.0$ MJ/kg e	-	
	EN ISO 1182 ^a or		△ <i>T</i> ≤50°C, and △ <i>m</i> ≤50%, and t _f ≤20 s	-	
A2	EN ISO 1716	and	PCS≤3.0MJ/kg a and PCS≤4.0MJ/m² b and PCS≤4.0MJ/m² d and PCS≤3.0MJ/kg e and	-	
	EN 13823		FIGRA≤120W/s and LFS< edge of specimen and THR _{600s} ≤7.5MJ	Smoke production ^f and Flaming droplets/particles ^g	
В	EN 13823 and		FIGRA≤120W/s and LFS< edge of specimen and THR _{600s} ≤7.5MJ	Smoke production ^f and Flaming droplets/particles ^g	
	EN ISO 11925-2 i Exposure =30s		within 60s <i>F</i> s≤150mm	riaming droplets/particles	
С	EN 13823	FIGRA≤250W/s and LFS< EN 13823 and edge of specimen and THR _{600s} ≤15MJ		Smoke production ^f and	
	EN ISO 11925-2 i Exposure=30s		<i>F</i> s≤150mm within 60 s	Flaming droplets/particles ⁹	
D	EN 13823	and	FIGRA≤750W/s	Smoke production ^f and	
	EN ISO 11925-2 i Exposure=30s		<i>F</i> s≤150mm within 60 s	Flaming droplets/particles ⁹	
Е	EN ISO 11925-2 i Exposure =15s		<i>F</i> s≤150mm within 20 s	flaming droplets/particles h	

To be continued...





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F No performance determined

- ^a For homogeneous products and substantial components of non-homogeneous products.
- ^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.
- 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.
- $s1 = SMOGRA \le 30m^2/s^2$ and $TSP_{600s} \le 50m^2$; $s2 = SMOGRA \le 180m^2/s^2$ and $TSP_{600s} \le 200m^2$; s3 = not s1 or s2
- ^g d0 = No flaming droplets/ particles in EN 13823 within 600 s;
- d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
- d2 = not d0 or d1.
- Ignition of the paper in EN ISO 11925-2 results in a d2 classification.
- h Pass = no ignition of the paper (no classification);
- Fail = ignition of the paper (d2 classification).
- Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge flame attack.

To be continued...





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Photo Appendix:



