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CNAS L4743

TEST REPORT

No.: AJFTS26002678R01_EN

Date: May 11, 2026

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SHANGHAI KINGKUS NEW MATERIAL CO., LTD.

602, NO. 7, POWERLONG BUSINESS CENTER, LANE 689 HOPE ROAD, JIADING NEW CITY, MALU TOWN, JIADING DISTRICT, SHANGHAI 201801, CHINA

Sample Name : POLYESTER FIBER ACOUSTIC PANEL
Product Specification : 2440*1220*24mm
Manufacturer : Gamution
Material & Mark : Kingkus KP-29
Style/Item No. : /

The above sample(s) data and information 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.

SGS Ref. No. : SHIN2604001090CM01
Sample Receiving Date : Apr 15, 2026
Testing Period : Apr 15, 2026 to Apr 28, 2026
Test Required : EN 13501-1:2018 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests.
Test result(s) : See attached sheet

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

Eva

Eva Zhang
Approved signatory

Scan to see the report



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Verification:
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III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)	3	7.6
	FIGRA _{0.4MJ} (W/s)		7.6
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)		0.9
	SMOGRA (m ² /s ²)		2.6
	TSP _{600s} (m ²)		9.3
	Flaming particles or droplets (Yes/No)		No
EN ISO 11925-2 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper (Yes/No)		No

* For the test details, please see appendix 1 and appendix 2 of this test report.

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, Polyester Fiber Acoustic Panel, in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production		Flaming droplets
B	—	s	1	d 0

Reaction to fire classification: B—s1, d0

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



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c) Field of application

This classification is valid for the following end use applications:

- With substrates classified as Euroclass A1 or A2-s1, d0 and at least 75% of the nominal value of the density of standard substrate.
- Mechanically fixing
- No joint

This classification is valid for the following product parameters:

- Characteristics as described in section II b) of this test reports.

Statement:

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.

Warning:

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



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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
A1	EN ISO 1182 ^a and	$\Delta T \leq 30^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ ^a and $PCS \leq 2.0\text{MJ/kg}$ ^{b c} and $PCS \leq 1.4\text{MJ/m}^2$ ^d and $PCS \leq 2.0\text{MJ/kg}$ ^e	-
A2	EN ISO 1182 ^a or	$\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3.0\text{MJ/kg}$ ^a and $PCS \leq 4.0\text{MJ/m}^2$ ^b and $PCS \leq 4.0\text{MJ/m}^2$ ^d and $PCS \leq 3.0\text{MJ/kg}$ ^e	-
	EN 13823	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
B	EN 13823 and	$FIGRA_{0.2\text{MJ}} \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 7.5\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60s	
C	EN 13823 and	$FIGR_{0.4\text{MJ}} A \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ and $THR_{600\text{s}} \leq 15\text{MJ}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA_{0.4\text{MJ}} \leq 750\text{W/s}$	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 ⁱ Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 ⁱ Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles ^h
F	EN ISO 11925-2 ⁱ Exposure = 15 s	$F_s > 150\text{mm}$ within 20 s	



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- ^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 $\leq 2,0 \text{ MJ/m}^2$, provided that the product satisfies the following criteria of EN 13823: FIGRA $\leq 20 \text{ W/s}$, and LFS < edge of specimen, and THR_{600s} $\leq 4,0 \text{ MJ}$, and s1, and d0.
- ^d For any internal non-substantial component of non-homogeneous products.
- ^e For the product as a whole.
- ^f s1 = SMOGRA $\leq 30 \text{ m}^2/\text{s}^2$ and TSP_{600s} $\leq 50 \text{ m}^2$; s2 = SMOGRA $\leq 180 \text{ m}^2/\text{s}^2$ and TSP_{600s} $\leq 200 \text{ m}^2$; 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).
- ⁱ Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

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APPENDIX 1: EN 13823:2020+A1:2022

Test Conducted

The test was conducted in accordance with EN 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.

Conditioning

Before testing, test specimens shall be conditioned at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ for at least 48h until constant mass is achieved.

Substrates and mounting method of specimen

Fibre cement board, with its density approximate $(1800 \pm 200) \text{ kg/m}^3$, thickness approximate $(8 \pm 2) \text{ mm}$, is as the substrate. The test specimens are fixed mechanically to the substrate with screws. No joint in the long wing of the specimens.

Test Results

Items	Specimen 1	Specimen 2	Specimen 3	Average
FIGRA _{0.2MJ} (W/s) ¹⁾	7.1	8.3	7.5	7.6
FIGRA _{0.4MJ} (W/s) ¹⁾	7.1	8.3	7.5	7.6
THR _{600s} (MJ)	0.8	1.0	0.9	0.9
SMOGRA (m ² /s ²)	2.4	2.9	2.5	2.6
TSP _{600s} (m ²)	8.5	10.2	9.3	9.3
Visual observation and manual recording of data				
LFS < edge of specimen	Yes	Yes	Yes	
Flaming particles or droplets	No	No	No	

FIGRA (W/s)

Fire growth rate index;

Maximum of the quotient of heat release rate from the specimen and the time of its occurrence using a THR threshold of 0.2MJ or 0,4 MJ.

THR_{600s} (MJ)

Total heat release from the specimen in the first 600 s of exposure to the main (primary) burner flames

SMOGRA (m²/s²)

Smoke growth rate index.

The maximum of the quotient of smoke production rate from the specimen and the time of its occurrence.

TSP_{600s} (m²)

Total smoke production from the specimen in the first 600 s of exposure to the main (primary) burner flames

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APPENDIX 2: EN ISO 11925-2:2026

Test Conducted

This test was conducted in accordance with EN ISO 11925-2:2026 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test, Flame application time: 30s.

Conditioning

Before testing, test specimens shall be conditioned at a temperature of $23 \pm 2^\circ\text{C}$ and a relative humidity of $50 \pm 5\%$ for at least 48h until constant mass is achieved.

Test Results

Flame application time: 30s

(A) Surface ignition

Specimen No.	1	2	3	4	5	6
Items						
Whether ignition occurs (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes
Whether flame tip exceeds 150 mm (Yes/No)	No	No	No	No	No	No
Time to exceed 150 mm (s)	NA	NA	NA	NA	NA	NA
Presence of flaming droplets/particles (Yes/No)	No	No	No	No	No	No
Ignition of the filter paper (Yes/No)	No	No	No	No	No	No
Observations	None					
Maximum flame height (mm)	33	28	34	30	27	31
Self-extinguishing of the specimen (Yes/No)	Yes	Yes	Yes	Yes	Yes	Yes
Time of self-extinguishing or extinguishing by the test operator (s)	30	30	30	30	30	30



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(B) Bottom edge ignition

Items	Specimen No.	1	2	3	4	5	6
Whether ignition occurs (Yes/No)		Yes	Yes	Yes	Yes	Yes	Yes
Whether flame tip exceeds 150 mm (Yes/No)		No	No	No	No	No	No
Time to exceed 150 mm (s)		NA	NA	NA	NA	NA	NA
Presence of flaming droplets/particles (Yes/No)		No	No	No	No	No	No
Ignition of the filter paper (Yes/No)		No	No	No	No	No	No
Observations		None					
Maximum flame height (mm)		27	30	29	32	28	31
Self-extinguishing of the specimen (Yes/No)		Yes	Yes	Yes	Yes	Yes	Yes
Time of self-extinguishing or extinguishing by the test operator (s)		30	30	30	30	30	30

Remark: NA—Not applicable.

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Photo Appendix:



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