AKU HOLDINGS LTD

ADD: NO.2 WUKESONG ROAD, ZHANGJIAGANG, SUZHOU CITY, JIANGSU, CHINA,

Sample Name: POLYESTER ACOUSTIC PANEL

SGS Ref No.: SHP24-035512

Material No.: AK01

Lot No.: 20241010

Specification: 5500g

Material: POLYESTER FIBER

Supplier: AKU

Manufacturer: AKU

The above sample(s) 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.

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Test Requested:

EN 13501-1:2018 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests.

Test Results: -- See attached sheet –

Test Period:

Sample Receiving Date	:	NOV.12, 2024
Test Performing Date	:	NOV.12, 2024 TO NOV.25, 2024

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

Echo Li
Approved Signatory

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I. Test conducted

This test is conducted as per EN 13501-1:2018 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 13823:2020+A1:2022 Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.
2. EN ISO 11925-2:2020 Reaction to fire tests — Ignitability of 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 acoustic panel (provided by client)” is defined as a decorative sheet. Its classification is valid for the following end use application: Wall covering and sound sbsorbing.

b) Description

Description	Polyester acoustic panel (provided by client)
Color	White
Sample size	EN 13823: 1500mm×1000mm & 1500mm×495mm EN ISO 11925-2: 250mm×90mm
Thickness	9.0mm
Density	1900 g/m^2
Tested (Exposed) surface	Any surface

Mounting and fixing:

Gypsum plasterboard, with its density approximate 700±100 kg/m^3, thickness approximate 12,5±0,5 mm, is as the substrates. The test specimens are fixed mechanically to the substrate. No joint in the long wing of the specimens.

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III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	$FIGRA_{0.2MJ}$ (W/s)	3	40.1
	$FIGRA_{0.4MJ}$ (W/s)		40.1
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR_{600s} (MJ)		3.1
	SMOGRA (m^2/s^2)		0
	TSP_{600s} (m^2)		0
	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

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 acoustic panel (provided by client), 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 all substrates classified as A1 or A2

--- With 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	$\Delta T \leq 30℃$, and $\Delta m \leq 50\%$, and $t_f = 0$(i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0MJ/kg$ [a] and $PCS \leq 2.0MJ/kg$ [b c] and $PCS \leq 1.4MJ/m^2$ [d] and $PCS \leq 2.0MJ/kg$ [e]	-
A2	EN ISO 1182 [a] or	$\Delta T \leq 50℃$, and $\Delta m \leq 50\%$, and $t_f \leq 20$ s	-
	EN ISO 1716 and	$PCS \leq 3.0MJ/kg$ [a] and $PCS \leq 4.0MJ/m^2$ [b] and $PCS \leq 4.0MJ/m^2$ [d] and $PCS \leq 3.0MJ/kg$ [e]	-
	EN 13823	$FIGRA_{0.2MJ} \leq 120W/s$ and $LFS <$ edge of specimen and $THR_{600s} \leq 7.5MJ$	Smoke production [f] and Flaming droplets/particles [g]
B	EN 13823 and	$FIGRA_{0.2MJ} \leq 120W/s$ and $LFS <$ edge of specimen and $THR_{600s} \leq 7.5MJ$	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure =30s	$Fs \leq 150mm$ within 60s	
C	EN 13823 and	$FIGR_{0.4MJ}$ $A \leq 250W/s$ and $LFS <$ edge of specimen and $THR_{600s} \leq 15MJ$	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s	$Fs \leq 150mm$ within 60 s	
D	EN 13823 and	$FIGRA_{0.4MJ} \leq 750W/s$	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s	$Fs \leq 150mm$ within 60 s	
E	EN ISO 11925-2 [i] Exposure =15s	$Fs \leq 150mm$ within 20 s	flaming droplets/particles [h]
F	EN ISO 11925-2[i] Exposure = 15 s	$Fs > 150mm$ 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 ≤ 2,0 MJ/m^2 , 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] s1 = SMOGRA ≤ 30m^2/s^2 and TSP_{600s} ≤ 50m^2 ; s2 = SMOGRA ≤ 180m^2/s^2 and TSP_{600s} ≤ 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).
[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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Photo Appendix:

	
Before test	After test
	
Before test	After test

SGS authenticate the photo on original report only

End of Report

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