TEST REPORT

PoliLam Co.Ltd.

4845 Homestead Rd., Suite 516, Houston, Texas 77028

Sample Description	:	PoliLam High Pressure Laminate
Color	:	White
Composition	:	Paper ,resin
Thickness	:	1.0mm
Density	:	1380Kg/m^3
Sample Information	:	See **II. Sample Details**

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.

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SGS Ref. No.	:	SHRT25000054
Sample Receiving Date	:	Jun 17,2025
Sample Acquisition Method	:	Customer sends samples by post
Testing Period	:	Jul 01,2025 to Jul 03,2025
Test Required	:	EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using test data from reaction to fire tests. Classes of reaction to fire performance for construction products excluding floorings and linear pipe thermal insulation products, Class B.
Test result(s)	:	See attached sheet
Conclusion	:	According to the test result, Combustion properties identified as: B -s2, d0
Statement	:	The evaluation is based only on the actual value of laboratory activities, and the effect of uncertainty of laboratory activities is not included.

Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Luthor Ming
Approved signatory

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III. Test Conducted

This test was conducted in accordance with EN 13501-1:2018 Fire classification of construction products and building elements - Part 1: Classification using test 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.

IV. Sample Details

Specimens Size	EN 13823: 1500x1000mm & 1500x495mm EN ISO 11925-2: 250x90mm

EN13823 Installation and Fixation of Specimens:

Substrate	Calcium silicate board	Fixing method	Fix mechanically
Splicing method	None	Tested Face	White side
Mounting and fixing	Calcium silicate board, with its density approximate 900kg/m^3, thickness approximate 11mm, is as the substrate. The Test specimens are fixed mechanically to the substrate. No joint in the long and short wings of the specimen.		

Product Description	Component Name	Surface Density	Thickness	Material Composition	Color
finished product	PHPL	1.38kg/m²	1.0mm	--	White
1	facing material	130g/m²	0.1mm	Impregnation Melamine resin paper	--
2	sandwich layer	1.25kg/m²	0.9mm	Paper	--

V. Test Results

Test method	Parameter	Number of tests	Results
EN 13823: 2020+A1:2022	FIGRA$_{0.2MJ}$ (W/s)	3	109.2
	FIGRA$_{0.4MJ}$ (W/s)		102.4
	LFS < edge of specimen		Yes
	THR$_{600s}$(MJ)		6.2
	SMOGRA(m^2/s^2)		56.4
	TSP$_{600s}$(m^2)		145.0
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
EN ISO 11925-2:2020 [i] Exposure = 30 s	Fs ≤ 150 mm within 60s	12	Yes
	Ignition of the filter paper within 60s		No

IV. Classification and field of application

a) Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018. The classes with their corresponding fire performance are given in annex A.

b) Classification

The product, in relation to its reaction to fire behaviour is classified:

MEET	Class B
Classification	**B—s2, d0**

c) Field of application

This classification is valid for the following end use applications:

--- With all substrates classified A1 and A2

--- Fix mechanically

--- No joint

This classification is valid for the following product parameters:

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

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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		△T≤30°C, and △m≤50%, and t_f=0(i.e. no sustained flaming)	-
	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]	-
A2	EN ISO 1182 [a] or	and	△T≤50°C, and △m≤50%, and t_f≤20 s	-
	EN ISO 1716		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]	-
	EN 13823		FIGRA$_{0,2\ MJ}$≤120W/s and LFS<edge of specimen and THR$_{600s}$≤7.5MJ	Smoke production [f] and Flaming droplets/particles [g]
B	EN 13823 and		FIGRA$_{0,2\ MJ}$≤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 Fs≤150mm	
C	EN 13823 and		FIGRA$_{0,4\ MJ}$≤250W/s and LFS<edge of specimen and THR$_{600s}$≤15MJ	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s		Fs≤150mm within 60 s	
D	EN 13823 and		FIGRA$_{0,4\ MJ}$≤750W/s	Smoke production [f] and Flaming droplets/particles [g]
	EN ISO 11925-2 [i] Exposure=30s		Fs≤150mm within 60 s	
E	EN ISO 11925-2 [i] Exposure =15s		Fs≤150mm within 20 s	Flaming droplets/particles [h]
F	EN ISO 11925-2[i] Exposure = 15s		Fs>150mm within 20 s	

[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.

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Class	Test method(s)	Classification criteria	Additional classification
[f] s1 = SMOGRA ≤ 30m²/s² and TSP_{600s} ≤ 50m² ; s2 = SMOGRA ≤ 180m²/s² and TSP_{600s} ≤ 200m²; 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.			

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. The test results or test reports shall not be used for improper or illegal publicity.

Photo Appendix:

Before test(EN 13823)	After test(EN 13823)

SGS authenticate the photo on original report only

End of Report

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