

**Test Report**

No. SDFS2311007629FF

Date: Jan.02, 2024

Page 1 of 6

**WOVEN IMAGE INTERIOR MATERIAL (SHANGHAI) CO., LTD.**

ROOM 103, BDG B, NO. 3039 LIYUE ROAD, PUJIANG TOWN, MINHANG DIST, SHANGHAI, CHINA

**Sample Description:** ECHOPANEL 12MM

**Thickness:** 12mm

**Composition:** 100% PET ( 80% RECYCLED)

**Density:** 2400GSM

**Product usage:** INTERIOR DECORATION

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**The report is English version of Chinese test report SDFS2311007629FF\_CN. The Chinese version shall prevail in case of discrepancy between the Chinese version and English version.**

**Sample Receiving Date:** Dec.01, 2023

**Test Performing Date:** Dec.01, 2023 to Jan.02, 2024

**Test Requested:**

GB 8624-2012 Fire classification for burning behavior of building materials and products

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products

**Test Results:** -- See attached sheet --

**Conclusion:** According to the test result, Combustion properties identified as: GB 8624 B<sub>1</sub> (B-s1,d0,t1)

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

Scan to see the report



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Verification:  
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Ivette Zhang  
Approved signatory



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**I. Test Conducted**

GB 8624-2012 Fire classification for burning behavior of building materials and products.

Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products. And the test methods as following:

1. GB/T 20284-2006 Single burning item test for building materials and products;
2. GB/T 8626-2007 Test method of flammability for building materials;
3. GB/T 20285-2006 Toxic classification of fire effluents hazard for materials.

**II. Sample Description**

Density	2.40kg/m <sup>2</sup>
Thickness	12mm
Construction	Single layer material structure
Exposed surface	One surface

**Mounting and fixing (For GB/T 20284):**

Test substrate was calcium silicate board meets the requirement of the standard, the density of 900 kg/m<sup>3</sup> and thickness of 10mm.

Specimen was installed on the substrate by screw. There was no joint between specimens. Specimen had a ventilated cavity of 80mm away from the backing board.

**III. Test Results:**

<u>Test method</u>	<u>Parameter</u>	<u>Number of tests</u>	<u>Results</u>
GB/T 20284-2006	FIGRA <sub>0.2MJ</sub> (W/s)	3	46.1
	FIGRA <sub>0.4MJ</sub> (W/s)		46.1
	LFS< edge of specimen (Yes/No)		Yes
	THR <sub>600s</sub> (MJ)		5.4
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		8.7
	TSP <sub>600s</sub> (m <sup>2</sup> )		38.6
	Flaming particles or droplets within 600s (Yes/No); Combustion time, if any burning time: (≤10s / >10s)		No
GB/T 8626-2007 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	12	No
	Ignition of the filter paper within 60s(Yes/No)		No



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GB/T 20285-2006	Quasi safety level (ZA) Smoke density (mg/L)			---	Smoke density: 6.15 mg/L  Smoke toxicity: The samples met the requirement of narcotic and irritants.
	ZA <sub>1</sub>	ZA <sub>2</sub>	ZA <sub>3</sub>		
	≥25.0	≥12.4	≥6.15		
	Narcotic	No testing mice dead during 30min exposure to fire effluents ( Include 1h after exposure)			
	Irritants	During 3 days after the test, the testing mice recovered average weight.			

**Remark:**

FIGRA-Fire growth rate index used for classification purposes [W/s]

LFS-Lateral flame spread [m]

THR<sub>600s</sub>-Total heat release within 600 s [MJ]

SMOGRA-Smoke growth rate [m<sup>2</sup>/s<sup>2</sup>]

TSP<sub>600s</sub> – Total smoke production within 600s[m<sup>2</sup>]

**IV. Classification and direct field of application**

This classification has been carried out in accordance with GB 8624-2012 Clause 5.1.1 Table 2 Classes of reaction to fire performance for slab building materials and construction products: The classes with their corresponding fire performance are given in Appendix A.

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

**Reaction to fire classification: GB 8624 B<sub>1</sub> (B-s1, d0, t1)**

b) 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



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**Appendix A**

GB 8624 Table 2 Classes of reaction to fire performance for slab building materials and construction products

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464 <sup>a</sup> and		$\Delta T \leq 30^\circ\text{C}$ ; $\Delta m \leq 50\%$ ; $t_f = 0$
				GB/T 14402
	A2	GB/T 5464 <sup>a</sup> or GB/T 14402	and	$\Delta T \leq 50^\circ\text{C}$ ; $\Delta m \leq 50\%$ ; $t_f \leq 20\text{ s}$
				$\text{PCS} \leq 3.0\text{MJ/kg}$ <sup>a, e</sup> ; $\text{PCS} \leq 4.0\text{MJ/m}^2$ <sup>b, d</sup>
		GB/T 20284		$\text{FIGRA}_{0.2\text{MJ}} \leq 120\text{W/s}$ ; LFS < edge of specimen; $\text{THR}_{600\text{s}} \leq 7.5\text{ MJ}$
B <sub>1</sub>	B	GB/T 20284 and		$\text{FIGRA}_{0.2\text{MJ}} \leq 120\text{W/s}$ ; LFS < edge of specimen; $\text{THR}_{600\text{s}} \leq 7.5\text{MJ}$
				GB/T 8626 Exposure = 30s
	C	GB/T 20284 and		$\text{FIGRA}_{0.4\text{MJ}} \leq 250\text{W/s}$ ; LFS < edge of specimen; $\text{THR}_{600\text{s}} \leq 15\text{MJ}$
				GB/T 8626 Exposure = 30s
B <sub>2</sub>	D	GB/T 20284 and GB/T 8626 Exposure = 30s		$\text{FIGRA}_{0.4\text{MJ}} \leq 750\text{W/s}$
				$F_s \leq 150\text{mm}$ within 60 s; No ignition of paper within 60s
	E	GB/T 8626 Exposure = 15s		$F_s \leq 150\text{mm}$ within 20 s; No ignition of paper within 20s
B <sub>3</sub>	F	No performance determined		



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Class	Test method(s)	Classification criteria
<p><sup>a</sup> For homogeneous products or substantial components of non-homogeneous products.</p> <p><sup>b</sup> For any external non-substantial component of non-homogeneous products.</p> <p><sup>c</sup> any external non-substantial component having a PCS <math>\leq 2.0 \text{ MJ/m}^2</math> , provided that the product satisfies the following criteria of <math>\text{FIGRA}_{0.2\text{MJ}} \leq 20 \text{ W/s}</math>, and <math>\text{LFS} &lt; \text{edge of specimen}</math>, and <math>\text{THR}_{600\text{s}} \leq 4.0 \text{ MJ}</math>, and s1, and d0 can be defined A1.</p> <p><sup>d</sup> For any internal non-substantial component of non-homogeneous products.</p> <p><sup>e</sup> For the product as a whole.</p>		
<p>Insulation foam metope, in addition to comply with stipulated in table 2 shall be at the same time satisfy the following requirements: B<sub>1</sub> level oxygen index (OI 30% or higher; B<sub>2</sub> level oxygen index (OI 26% or higher)</p>		

GB 8624 Table B.1 smoke production levels and grading criterion

SMOGRA	Test Method	Requirement
s1	GB/T 20284	$\text{SMOGRA} \leq 30\text{m}^2/\text{s}^2$ ; $\text{TSP}_{600\text{s}} \leq 50\text{m}^2$
s2		$\text{SMOGRA} \leq 180\text{m}^2/\text{s}^2$ ; $\text{TSP}_{600\text{s}} \leq 200\text{m}^2$
s3		not s1 or s2

GB 8624 Table B.2 Burning droplets / particles grades and grading criterion

Burning droplets / particles grades	Test Method	Requirement
d0	GB/T 20284	No flaming droplets/ particles within 600 s
d1		Flaming droplets/ particles persisting longer than 10 s within 600 s
d2		not d0 or d1

GB 8624 Table B.3 smoke toxicity levels and grading criterion

Toxicity	Test Method	Requirement
t0	GB/T 20285	Achieve quasi-safety level 1 ZA <sub>1</sub>
t1		Achieve quasi-safety level 3 ZA <sub>3</sub>
t2		Failure to reach quasi-safe Level 3 ZA <sub>3</sub>

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**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.

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**Photo Appendix:**



Test sample for GB/T 20285

**Remark:** GB/T 20285-2006 is not within CNAS accreditation testing scope of the lab. This test was subcontracted to Guangzhou Building Materials Institute Limited Company whose registration No. is CNAS L0057 and accreditation testing scope contains this test item.

\*\*\*End of Report\*\*\*



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