







Test Report NO.: SHFS2401000112FF Date: Jan. 30, 2024 Page 1 of 6

Sample Description : Interior Film

Product specification : 1.22*50M

Product or Lot No. : SA2958

The above sample(s) and data/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. Results apply only to the sample as received.

SGS Ref. NO. : SHIN2401000225CM01

Sample Receiving Date : Jan. 23, 2024

Test Performing Date : Jan. 26, 2024 TO Jan. 29, 2024

Test Requested:

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 Results: -- See attached sheet --

Conclusion: According to the test result, Combustion properties identified as: B -s1,d0

<u>Statement</u>: 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.

Alex MAO

Approved signatory



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing / inspection record & certificate, please contact us at telephone: (86-755) 8307

邮编: 201800

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800

中国・上海・嘉定区兴庆路1301号

t (86 - 21) 6115 2543 t (86 - 21) 6115 2543 f (86 - 21) 6115 6899 f (86 - 21) 6115 6899

e sgs.china@sgs.com



Test Report NO.: SHFS2401000112FF Date: Jan. 30, 2024 Page 2 of 6

I. 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.

II. 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	Glue	
Splicing method	None	Tested Face	Wood grain side	
	Calcium silicate board, with its density approximate 900kg/m³, thickness approximate			
Mounting and	ting and 11mm, is as the substrate.			
fixing	The Test specimens are Glued to the substrate.			
	No joint in the long and short wings	of the specimen.		

III. Test Results

III. Test Nesalts			
Test method	Parameter	Number of tests	Results
	FIGRA _{0.2MJ} (W/s)		58.8
	FIGRA _{0.4MJ} (W/s)		0
	LFS < edge of specimen		Yes
EN 13823:	THR _{600s} (MJ)	3	1.0
2020+A1:2022	SMOGRA(m ² /s ²)	3	18.5
	TSP _{600s} (m ²)		32.5
	Flaming particles or droplets within 600s (Yes/No);		No
	Combustion time, if any burning time: (≤10s / >10s)		NO
EN ISO 11925-2:2020 i	Fs ≤ 150 mm within 60s	12	Yes
Exposure = 30 s	Ignition of the filter paper within 60s	12	No



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention:*To check the authenticity of testing / inspection record & certificate, please contact us at telephone: (86-755) 8307

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307

1443, or email: CN.Doccheck@sgs.com

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 t (86-21) 6115 2543 f (86-21) 6115 6899 www.sgsgroup.com.ci

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 中国・上海・嘉定区兴庆路1301号 邮編: 201800 t (86 - 21) 6115 2543 t (86 - 21) 6115 2543 f (86 - 21) 6115 6899 www.sgsgroup.com.cn f (86 - 21) 6115 6899 e sgs.china@sgs.com



Test Report NO.: SHFS2401000112FF Date: Jan. 30, 2024 Page 3 of 6

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-s1, d0

c) Field of application

This classification is valid for the following end use applications:

- --- With all substrates classified A1 and A2
- --- Glue
- --- No joint

This classification is valid for the following product parameters:

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

·····Continued on Next Page



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention:*To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 830 1443, or email: CN.Doccheck@sgs.com

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 t (86 - 21) 6115 2543 f (86 - 21) 6115 8899 www.sgsgroup.com.cn 中国・上海・嘉定区兴庆路1301号 邮编: 201800 t (86 - 21) 6115 2543 f (86 - 21) 6115 6899 e sgs.china@sgs.com



Test Report NO.: SHFS2401000112FF Date: Jan. 30, 2024 Page 4 of 6

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		△T≤30°C, and △m≤50%, and t _i =0(i.e. no sustained flaming)	-
A1	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	-
	EN ISO 1182 a		△T≤50°C, and △m≤50%, and tr≤20 s	-
A2	EN ISO 1716	and	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} мJ≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g
В	EN 13823 and		FIGRA _{0,2} мJ≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g
	EN ISO 11925-2 i Exposure =30s		within 60s Fs≤150mm	
С	EN 13823 and		FIGRA _{0,4} мJ≤250W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤15MJ</edge>	Smoke production f and
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ^g
D	EN 13823 and		FIGRA₀,4 мJ≤750W/s	Smoke production ^f and
	EN ISO 11925-2 i Exposure=30s		Fs≤150mm within 60 s	Flaming droplets/particles ⁹



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention:*To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone:(86-755) 8307

1443, or email: CN.Doccheck@sgs.com

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 t (86-21) 6115 2543 f (86-21) 6115 6899 www.sgsgroup.com.cn

t (86 - 21) 6115 2543

邮编: 201800

e sgs.china@sgs.com

f (86 - 21) 6115 6899



Test Report NO.: SHFS2401000112FF Date: Jan. 30, 2024 Page 5 of 6

Class	Test method(s)	Classification criteria	Additional classification
_	EN ISO 11925-2 i	Fs≤150mm within 20 s	Flaming droplets/particles h
	Exposure =15s	1 52 1 30111111 WILLIII1 20 5	
_	EN ISO 11925-2 ⁱ	Fs>150mm within 20 s	
	Exposure = 15s	F5>13011111 WILLIII1 20 S	

^a For homogeneous products and substantial components 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.
- 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).
- ¹ 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.



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions.aspx and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-en-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

**Attention: To check the authenticity of testing / inspection record & certificate, please contact us at telephone: (86-755) 8307

1443, or email: CN.Doccheck@sgs.com

SHFTS

[No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 t (86-21) 6115 2543 f (86-21) 6115 6899 www.sgsgroup.com.

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 中国・上海・嘉定区兴庆路1301号 邮编: 201800 t (86 - 21) 6115 2543 t (86 - 21) 6115 2543

f (86-21) 6115 6899

e sgs.china@sgs.com

^b For any external non-substantial component of non-homogeneous products.



Test Report NO.: SHFS2401000112FF Date: Jan. 30, 2024 Page 6 of 6

Photo Appendix:



SGS authenticate the photo on original report only

End of Report



Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at http://www.sgs.com/en/Terms-and-Conditions and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unleafful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.

Attention:To check the authenticity of testing / inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: CN.Doccheck@sgs.com

No.1301, Xingqing Road, Jiading District, Shanghai, China 201800 t (86 - 21) 6115 2543 f (86 - 21) 6115 6899 www.sgsgroup.com.cn 中国・上海・嘉定区兴庆路1301号 邮编: 201800 t (86 - 21) 6115 2543 f (86 - 21) 6115 6899 e sgs.china@sgs.com