



NO.: SHFS2209000571FF

Date: Oct. 18, 2022

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Shanghai Foxygen Industrial Co.,Ltd

No.701 Jiujing Road, Songjiang District, Shanghai City, China

Sample Description	:	PVC Film			
Spec.	:	L303/4011/S303/M303			
Density	:	280g/m ²	Thickness	:	0.18mm
Color	:	White	Material composition	:	PVC
End use application	:	Indoor, celling and wall, for decoration purposes			

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. results apply to the sample as received.

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

Test Period

Sample Receiving Date	:	Sep. 30, 2022
Test Performing Date	:	Oct. 13, 2022 TO Oct. 17, 2022

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

中国・上海・嘉定区兴庆路1301号

Alex MAO Lab Manager





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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 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

Creatimente Cire	EN 13823: 1500x1000mm & 1500x500mm				
Specimens Size	EN ISO 11925-2: 250x90mm				
Substrate	Fire cement board Fixing method Fix mechanically				
Splicing method	None Tested Face Any side		Any side		
Mounting and fixing	Fire cement board, with its density approximate 1800kg/m ³ , thickness approximate				
	9mm, is as the substrate.				
	The Test specimens are fixed mechanically to the substrate.				
	No joint in the long and short wings of the specimen.				

III. Test Results

Test method	Parameter	Results	
	FIGRA _{0.2MJ} (W/s)	0.2	
	FIGRA _{0.4MJ} (W/s)	0	
	LFS < edge of specimen	Yes	
EN 13823:2020	THR _{600s} (MJ)	0.2	
	SMOGRA(m ² /s ²)	53.9	
	TSP _{600s} (m ²)	83.6	
	Flaming droplets/particles	No	
EN ISO 11925-2:2020 ¹	Fs ≤ 150 mm within 60s	Yes	
Exposure = 30 s	Ignition of the filter paper	No	



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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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V. 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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Annex A

Classes of reaction to fire performance for construction products excluding floorings and linear pipe

thermal insulation products						
Class	ss Test method(s)		Classification criteria	Additional classification		
	EN ISO 1182 ^a and		 △T≤30°C, and △m≤50%, and t_r=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 or		∆T≤50°C, and ∆m≤50%, and t _f ≤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		FIGRA₀,₂ мյ≤120W/s and LFS <edge and<br="" of="" specimen="">THR₀₀₀₅≤7.5MJ</edge>	Smoke production ^f and Flaming droplets/particles ^g		
EN 13823 and B			FIGRA₀,₂ мյ≤120W/s and LFS <edge and<br="" of="" specimen="">THR₀₀₀₅≤7.5MJ</edge>	Smoke production ^f and		
	EN ISO 11925-2 ⁺ Exposure =30s		within 60s Fs≤150mm	 Flaming droplets/particles ^g 		
С	EN 13823 and		FIGRA₀,4 мJ≤250W/s and LFS <edge and<br="" of="" specimen="">THR₀₀₀₅≤15MJ</edge>	Smoke production ^f and		
	EN ISO 11925-2 ¹ Exposure=30s		Fs≤150mm within 60 s	 Flaming droplets/particles ^g 		
D	EN 13823 and		FIGRA0,4 MJ≤750W/s	Smoke production ^f and		
EN ISO 11925-2 ⁱ Exposure=30s			Fs≤150mm within 60 s	Flaming droplets/particles ^g		



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Е	EN ISO 11925-2 ⁱ	Fs≤150mm within 20 s		Flaming droplets/particles ^h			
	Exposure =15s	FS≤150mm within 20 S		Fiaming dropiets/particles			
F	EN ISO 11925-2 ⁱ	Fs>150mm within 20 s					
Г	Exposure = 15s	FS>150mm within 20 8					
^a For ho	pmogeneous products an	d substantial components of no	n-homogeneous p	products.			
^b For ar	ny external non-substantia	al component of non-homogene	eous products.				
° Altern	atively, any external non-	substantial component having	a PCS ≤ 2,0 MJ/m	² , provided that the product			
satisfi	es the following criteria of	EN 13823: FIGRA ≤ 20 W/s, a	nd LFS < edge of	specimen, and $\text{THR}_{600s} \leq 4,0$			
MJ, ar	nd s1, and d0.						
^d For ar	^d For any internal non-substantial component of non-homogeneous products.						
^e For th	^e For the product as a whole.						
^f s1 = S s2	^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 = N	No flaming droplets/ partic	les in EN 13823 within 600 s;					
d1 = n	o flaming droplets/ partic	les persisting longer than 10 s	n EN 13823 withir	n 600 s;			
d2 = n	ot d0 or d1.						
Ignitio	Ignition of the paper in EN ISO 11925-2 results in a d2 classification.						
^h Pass	^h Pass = no ignition of the paper (no classification);						
Fail = ignition of the paper (d2 classification).							
ⁱ Under	ⁱ Under conditions of surface flame attack and, if appropriate to the end–use application of the product, edge						
flame	flame attack.						



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Photo Appendix:



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End of Report



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