

TAYA CANVAS(SHANGHAI)CO.,LTD  
NO.777 FENGGUAN ROAD,FENGJING INDUSTRIAL PARK, JINSHAN DISTRICT,SHANGHAI,CHINA.

The following sample(s) was/were submitted and identified on behalf of the client as:

Sample Description : (A)Sample(Greyback)

Style No. : Sunlight Weldable

Sample Color : (A)Greyback

Proposed Care Instruction : -

Sample Receiving Date : Sep 28, 2020

Testing Period : Sep 28, 2020 - Oct 22, 2020

Test Result(s) : Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, for further details, please refer to the following page(s).

Test Performed : Selected test(s) as requested by applicant

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



Hattie Chen (Account Executive)



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Test Result:

**Flammability test\***

**Test Requested:**

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

**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 13823:2010+A1:2014 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: 2010+Cor1:2011 Reaction to fire tests — Ignitability of building 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 “Membrane” is defined as a decorative sheet. Its classification is valid for the following end use application: Billboard.

b) Description

Description	Membrane
Color	One side: White; One side: Grey
Sample size	EN 13823: 1500mm×1000mm & 1500mm×495mm EN ISO 11925-2: 250mm×90mm
Mass per unit area	406 g/m <sup>2</sup>
Exposed surface	White surface

Mounting and fixing:

Calcium silicate board, with its density approximate 900kg/m<sup>3</sup>, thickness approximate 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate. Have a vertical joint in the long wing of the specimen.

**III. Test results**

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA <sub>0.2MJ</sub> (W/s)	3	2.9
	FIGRA <sub>0.4MJ</sub> (W/s)		2.9
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR <sub>600s</sub> (MJ)		0.7
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		1.5
	TSP <sub>600s</sub> (m <sup>2</sup> )		5.5
	Flaming particles or droplets (Yes/No)		No



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 Testing Center: Technical Services (Shanghai) Co., Ltd. 中国·上海·徐汇区宜山路889号3号楼 邮编: 200233 t (86-21) 61402666 f (86-21) 64958763 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

Test method	Parameter	Specimen number	Results
EN ISO 11925-2 Exposure = 30 s	Whether vertical flame spread (Fs) in excess of 150 mm within 60s (Yes/No)	6	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, Membrane, in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production			Flaming droplets	
<b>B</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.

##### c) Field of application

This classification is valid for the following end use applications:

- With all substrates classified as A1 and A2
- With mechanically fixing
- Have 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.

The test laboratory has, therefore, play no part in sampling the product for the test, although it holds appropriate references to the manufacturer's factory production control that is aimed to be relevant to the samples tested and that will provide for their traceability.



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 <sup>a</sup> and	$\Delta T \leq 30^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \leq 2.0\text{MJ/kg}$ <sup>a</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>b,c</sup> and $PCS \leq 1.4\text{MJ/m}^2$ <sup>d</sup> and $PCS \leq 2.0\text{MJ/kg}$ <sup>e</sup>	-
A2	EN ISO 1182 <sup>a</sup> or	and $\Delta T \leq 50^\circ\text{C}$ , and $\Delta m \leq 50\%$ , and $t_f \leq 20\text{ s}$	-
	EN ISO 1716		-
	EN 13823	$FIGRA \leq 120\text{W/s}$ and $LFS <$ edge of specimen and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
B	EN 13823 and	$FIGRA \leq 120\text{W/s}$ and $LFS <$ edge of specimen and $THR_{600s} \leq 7.5\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	within 60s $F_s \leq 150\text{mm}$	
C	EN 13823 and	$FIGRA \leq 250\text{W/s}$ and $LFS <$ edge of specimen and $THR_{600s} \leq 15\text{MJ}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
D	EN 13823 and	$FIGRA \leq 750\text{W/s}$	Smoke production <sup>f</sup> and Flaming droplets/particles <sup>g</sup>
	EN ISO 11925-2 <sup>i</sup> Exposure = 30s	$F_s \leq 150\text{mm}$ within 60 s	
E	EN ISO 11925-2 <sup>i</sup> Exposure = 15s	$F_s \leq 150\text{mm}$ within 20 s	flaming droplets/particles <sup>h</sup>



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F	EN ISO 11925-2 <sup>i</sup> Exposure = 15 s	$F_s > 150\text{mm}$ within 20 s
<p><sup>a</sup> For homogeneous products and 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> Alternatively, 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 EN 13823: FIGRA <math>\leq 20 \text{ W/s}</math>, and LFS &lt; edge of specimen, and THR<sub>600s</sub> <math>\leq 4,0 \text{ MJ}</math>, and s1, and d0.</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><sup>f</sup> s1 = SMOGRA <math>\leq 30\text{m}^2/\text{s}^2</math> and TSP<sub>600s</sub> <math>\leq 50\text{m}^2</math>; s2 = SMOGRA <math>\leq 180\text{m}^2/\text{s}^2</math> and TSP<sub>600s</sub> <math>\leq 200\text{m}^2</math>; s3 = not s1 or s2</p> <p><sup>g</sup> 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.</p> <p><sup>h</sup> Pass = no ignition of the paper (no classification);  Fail = ignition of the paper (d2 classification).</p> <p><sup>i</sup> Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.</p>		

\*The test was carried out by SGS Anji Flammability laboratory.



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Sample Photo



Before test

After test



Before test

After test

The statement of conformity in this test report is only based on measured values by the laboratory and does not take their uncertainties into consideration.

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



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