







The following 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.

Sample Name: ARTIFICIAL HEDGE

SGS Ref No.: 14765682

Style/Item No.: /

Material and Mark: PLASTIC

Product Specification: 50×50cm

Test Requested:

EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements—Part 1: Classification using data from reaction to fire tests, Class B

Test Results: -- See attached sheet -

Test Period:

Sample Receiving Date : AUG.27, 2019

Test Performing Date : AUG.27, 2019 TO SEP.18, 2019

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

Allen Zou Lab Manager



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I. Test conducted

This test is conducted as per EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements — Part 1: Classification using data from reaction to fire tests. And the test methods as following:

- 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.
- EN ISO 11925-2:2010+Corl: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 "Artificial hedge" is defined as a decorative sheet. It's classification is valid for the following end use application "Indoor and outdoor walls for decorative purposes".

b) Description

The details of the product given above have been prepared from information provided by the sponsor of the test.

Description	Artificial hedge
Color	Green
Area density	2595.2 g/m ²

Mounting and fixing:

Calcium silicate board, with its density about 900kg/m³, thickness 9mm, is as the substrate. The test specimens are fixed mechanically to the substrate, Have joints in the long wing of the specimen.

III. Test results

Test method	Parameter	Number of tests	Results
EN 13823	FIGRA _{0.2MJ} (W/s)		22.6
	FIGRA _{0.4MJ} (W/s)		22.6
	Whether lateral flame spread (LFS) to the edge of specimen (Yes/No)		No
	THR _{600s} (MJ)	3	2.9
	SMOGRA (m ² /s ²)		14.3
	TSP _{600s} (m ²)		127.5
	Flaming particles or droplets (Yes/No)		No

To be continued...



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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)	2041	No

IV. Classification and direct field of application

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

a) Classification

The product, Artificial hedge, classification is as following,

Fire behaviour		Smoke production		Flaming droplets		
В	_	s	2		d	0

Reaction to fire classification: B-s2, d0

Remark: The classes with their corresponding fire performance are given in annex A.

b) Field of application

This classification for the submitted sample is valid for the following end use condition:

- --- With all substrate classified A1 and A2.
- --- With mechanical fixing.
- --- Have joints.

This classification is valid for the following product parameters:

--- Characteristics are described in section II b) of this test report.

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.

To be continued...



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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	
	EN ISO 1182 ª	and	ΔT ≤30 \Box , and Δm ≤50%, and t _f =0(i.e. no sustained flaming)	S. 	
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	•	
or	EN ISO 1182 a or		<i>∆T</i> ≤50□, and <i>∆m</i> ≤50%, and t₁≤20 s	11-	
	EN ISO 1716	and	PCS≤3.0MJ/kg a and PCS≤4.0MJ/m² b and PCS≤4.0MJ/m² d and PCS≤3.0MJ/kg e		
	EN 13823		FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ¹ and Flaming droplets/particles ⁹	
EN 13823	EN 13823	and	FIGRA≤120W/s and LFS <edge and<br="" of="" specimen="">THR_{600s}≤7.5MJ</edge>	Smoke production ¹ and	
EN ISO 11925-2 i Exposure =30s			within 60s Fs≤150mm	Flaming droplets/particles ⁹	
EN 13823		and	FIGRA≤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	
D	EN 13823 and EN ISO 11925-2 ' Exposure=30s		FIGRA≤750W/s	Smoke production ^f and Flaming droplets/particles ^g	
			Fs≤150mm within 60 s		
Е	EN ISO 11925-2 i Exposure =15s		Fs≤150mm within 20 s	flaming droplets/particles h	

To be continued...



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No performance determined F

- a For homogeneous products and substantial components of non-homogeneous products.
- For any external non-substantial component 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 THR600s ≤ 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.
- In the last phase of the development of the test procedure, modifications of the smoke measurement system have been introduced, the effect of which needs further investigation. This may result in a modification of the limit values and/or parameters for the evaluation of the smoke production.
- s1 = SMOGRA ≤ 30m²/s² and TSP_{600s} ≤ 50m²; s2 = SMOGRA ≤ 180m²/s² and TSP_{600s} ≤ 200m²; s3 = not s1 or s2
- 9 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.
- Pass = no ignition of the paper (no classification);
- Fail = ignition of the paper (d2 classification).
- 'Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

To be continued...



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Photo Appendix:



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End of Report



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