

## Test Report

No. SDHL1604004530FB

Date: May 06, 2016

Page 1 of 5

DONGYI ARTIFICIAL PLANTS CO., LIMITED  
UNIT 04 7/F BRIGHT WAY TOWER 33 MONG KOK ROAD KL

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

Sample Description : ARTIFICIAL TOPIARY BOXWOOD HEDGE PANEL  
Style / Item No. : ALL ARTIFICIAL HEDGES  
Manufacturer : DONGYI ARTIFICIAL PLANTS CO., LIMITED  
Supplier : DONGYI ARTIFICIAL PLANTS CO., LIMITED  
Sample Receiving Date : Apr.07, 2016  
Test Performing Date : Apr.07, 2016 to May 06, 2016

### Test Result Summary

Test(s) Requested	Result(s)
EN 13501-1:2007+A1:2009	Classification: E
UV Exposure ISO 4892-3:2013, ISO 105-A02:1993 Cor 2:2005	Grey scale: 4

#### Summary:

1. For further details, please refer to the following page(s).

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



Kevin Pan  
Approved signatory



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1/F, 1<sup>st</sup> Building, European Industrial Park, No. 1 Shunhenan Road, Wusha Section, Daikang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn  
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**TESTS AND RESULTS**

**Part 1**

**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, Class E. And the test methods as following:

EN ISO 11925 - 2:2010 Reaction to fire tests — Ignitability of building products subjected to direct impingement of flame — Part 2: Single-flame source test.

**Test Results:**

Test method	Parameter	Number of tests	Results
EN ISO 11925-2 Exposure = 15 s	$F_s \leq 150$ mm within 20 s	6	Yes
	Ignition of the filter paper within 20 s		No

**Classification and direct field of application:**

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

**Classification:**

The product, "ARTIFICIAL TOPIARY BOXWOOD HEDGE PANEL", classification is as following,

**Reaction to fire classification: E**

**Remark:**

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

Reaction to fire classification is based on the 7-step scale of A1 to F, where A1 is good and F is bad

**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.

**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.



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 中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

**Annex A**

Table 1 — 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 $t_f \leq 20$ s	-
	EN ISO 1716		-
	EN 13823	$FIGRA \leq 120\text{W/s}$ and $LFS < \text{edge of specimen}$ 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 $LFS < \text{edge of specimen}$ 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	$F_s \leq 150\text{mm}$ within 60 s	
C	EN 13823 and	$FIGRA \leq 250\text{W/s}$ and $LFS < \text{edge of specimen}$ 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>
F	No performance determined		

- <sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.
- <sup>b</sup> For any external non-substantial component of non-homogeneous products.
- <sup>c</sup> Alternatively, any external non-substantial component having a PCS  $\leq 2,0 \text{ MJ/m}^2$ , provided that the product satisfies the following criteria of EN 13823: FIGRA  $\leq 20 \text{ W/s}$ , and LFS < edge of specimen, and THR<sub>600s</sub>  $\leq 4,0 \text{ MJ}$ , and s1, and d0.
- <sup>d</sup> For any internal non-substantial component of non-homogeneous products.
- <sup>e</sup> For the product as a whole.
- <sup>f</sup> 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  $\leq 30 \text{ m}^2/\text{s}^2$  and TSP<sub>600s</sub>  $\leq 50 \text{ m}^2$ ; s2 = SMOGRA  $\leq 180 \text{ m}^2/\text{s}^2$  and TSP<sub>600s</sub>  $\leq 200 \text{ m}^2$ ; s3 = not s1 or s2

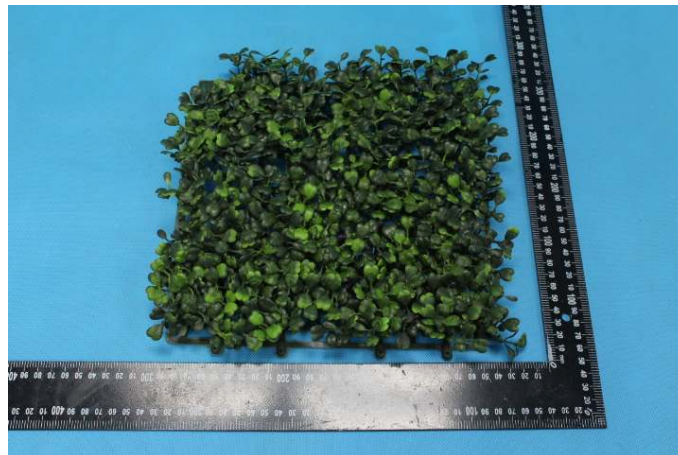
- <sup>g</sup> d0 = No flaming droplets/ particles in EN 13823 within 600 s;
- d1 = no flaming droplets/ particles persisting longer than 10 s in EN 13823 within 600 s;
- d2 = not d0 or d1.

Ignition of the paper in EN ISO 11925-2 results in a d2 classification.

- <sup>h</sup> Pass = no ignition of the paper (no classification);
- Fail = ignition of the paper (d2 classification).

- <sup>i</sup> Under conditions of surface flame attack and, if appropriate to the end-use application of the product, edge flame attack.

### SAMPLE INFORMATION AND PICTURES



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SGS-CTI Standards Technical Services Co., Ltd.  
Shunde Branch

1/F, 1<sup>st</sup> Building, European Industrial Park, No.1 Shunhenan Road, Wusha Section, Daikang Town, Shunde, Foshan, Guangdong, China 528333 t (86-757)22805888 f (86-757)22805858 www.sgsgroup.com.cn  
中国·广东·佛山市顺德区大良街道办事处五沙顺和南路1号欧洲工业园一号厂房首层 邮编: 528333 t (86-757)22805888 f (86-757)22805858 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)

### Part 2

#### Test Information:

Sample description: See photo

Test item: UV Exposure

Test method: ISO 4892-3:2013, ISO 105-A02:1993 Cor 2:2005

Test conditions:

Exposure cycle: ISO 4892-3:2013 cycle 1

Lamp type: UVA-340

8h UV at (60±3)°C BPT, 0.76W/(m<sup>2</sup>•nm) @ 340nm

4h condensation at (50±3)°C BPT

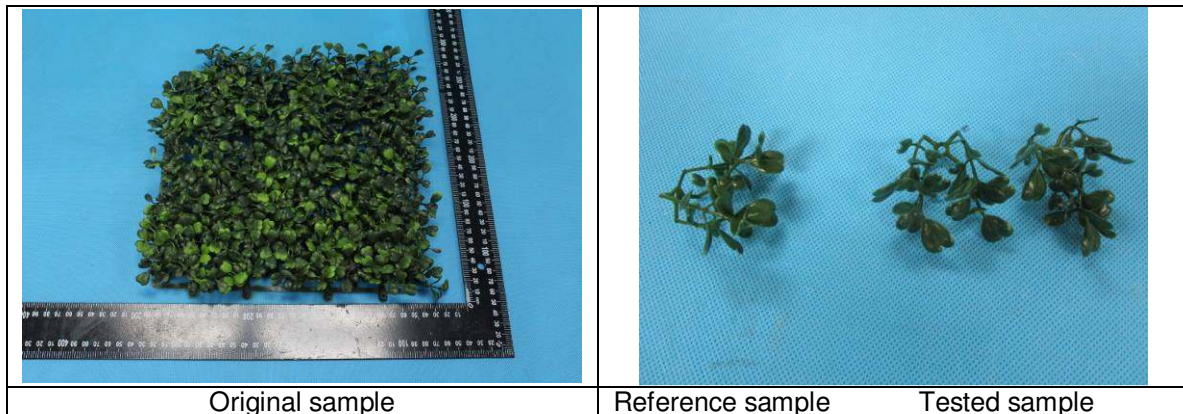
Exposure period: 480h

Test result(s):

Sample	Grey scale
1	4

Note: According to ISO 105-A02, the grey scale was determined under the D65 standard light, with scale 5 as the best and scale 1 as the worst.

#### Photo Appendix:



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