



TEST REPORT

No. : SP121208011

Date : Jan. 4, 2013

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COCREATION GRASS CORPORATION

FL/5, SPORTS CENTER BUSINESS BUILDING, NO.1-6 WUTAISHAN NANJING 210029, CHINA

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

Sample Name : VICTORIA PX2, BREEZE PX2, CRYSTAL PX2, NATURE D3 PX2,
STEMGRASS PX2, PRIME SM PX2, PRIME CM PX2, FANTURF PX2,
NATURE D3+PX2, ATURF PX2

Sample No. : SP121208011

Material and Mark : PE&PP

Manufacturer : CCGRASS

Test Required : 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_{fl}

Date of Receipt : Dec. 5, 2012

Test Period : Dec. 5, 2012 to Dec. 27, 2012

Test result(s) : For further details, please refer to the following page(s)

***** To be continued*****

Signed for SGS-CSTC Standards
Technical Services (Shanghai) Co., Ltd

Ivy Zhu

Ivy Zhu
Authorized signatory

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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:

1. 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.

II. Details of classified product

a) Description

Color	Green
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III. Test results

Test method	Parameter	Number of tests	Results
EN ISO 11925-2 Exposure = 15 s	$F_s \leq 150 \text{ mm}$	6	YES

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, classification is as following,

Fire behaviour
E_{fl}

Reaction to fire classification: E_{fl}

***** To be continued *****

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

This classification is valid for the following product parameters:

---Characteristics are described in § II b of this test report

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.

***** To be continued*****

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SGS-CTC Standards Technical Services (Shanghai) Co., Ltd.
Testing Center

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Annex A

Classes of reaction to fire performance for floorings

class	Test methods	Classification	Additional classification
A1 _{fi}	EN ISO 1182 ^a 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 $\leq 2.0\text{MJ/kg}$ ^a and PCS $\leq 2.0\text{MJ/kg}$ ^b and PCS $\leq 1.4\text{MJ/m}^2$ ^c and PCS $\leq 2.0\text{MJ/kg}$ ^d	-
A2 _{fi}	EN ISO 1182 ^a or	$\Delta T \leq 50^\circ\text{C}$, and $\Delta m \leq 50\%$, and $t_f \leq 20\text{s}$	-
	and EN ISO 1716	PCS $\leq 3.0\text{MJ/kg}$ ^a and PCS $\leq 4.0\text{MJ/m}^2$ ^b and PCS $\leq 4.0\text{MJ/m}^2$ ^c and PCS $\leq 3.0\text{MJ/kg}$ ^d	-
	EN ISO 9239-1 ^e	Critical flux ^f $\geq 8.0\text{kW/m}^2$	Smoke production ^g

***** To be continued *****

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class	Test methods	Classification	Additional classification
B _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f ≥8.0kW/ m ²	Smoke production ^g
	EN ISO 11925-2 ^h Exposure =15s	Fs≤150mm within 20 s	-
C _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f ≥4.5kW/ m ²	Smoke production ^g
	EN ISO 11925-2 ^h Exposure =15s	Fs≤150mm within 20 s	-
D _{fl}	EN ISO 9239-1 ^e and	Critical flux f ≥3.0kW/ m ²	Smoke production ^g
	EN ISO 11925-2 ^h Exposure =15s	Fs≤150mm within 20 s	-
E _{fl}	EN ISO 11925-2 ^h Exposure =15s	Fs≤150mm within 20 s	-
F _{fl}	No performance determined		

^a For homogeneous products and substantial components of non-homogeneous products.

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

^c For any internal non-substantial component of non-homogeneous products.

^d For the product as a whole.

^e Test duration = 30 min.

^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).

^g **s1** = Smoke ≤ 750 % minutes;

s2 = not s1.

^h 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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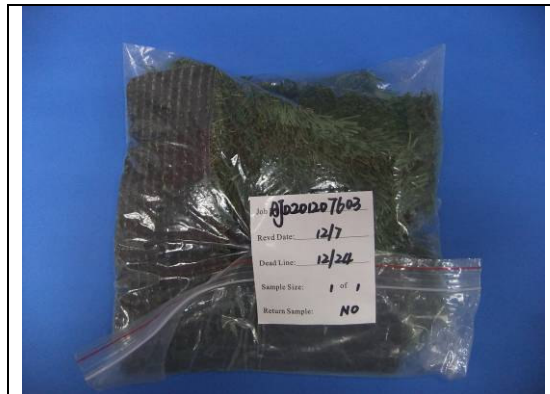
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Sample Photo:



- The test was performed by SGS internal laboratory.

***** End of report *****

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