TEST REPORT

No. : XMIN2012011792CM-01
Date : Dec 16, 2020

scan to see the report
XMIN2012011792CM-01

CUSTOMER NAME: ANJI YIKE DECORATION MATERIAL TECHNOLOGY CO., LTD

ADDRESS: BUILDING 1, BAMBOO INDUSTRYTECHNOLOGY ENTREPRENEURSHIP CENTER XIAOFENG TOWN, ANJI COUNTY, HUZHOU CITY, ZHEJIANG PROVINCE, CHINA

Sample Name	:	WOVEN VINYL FLOORING
Product Specification	:	2m*20m
Manufacturer	:	ANJI YIKE DECORATION MATERIAL TECHNOLOGY CO., LTD
Material and Mark	:	PVC

Above information and sample(s) was/were submitted and confirmed by the client. SGS, however, assumes no responsibility to verify the accuracy, adequacy and completeness of the sample information provided by client.

****

SGS Ref. No.	:	SDFS2012007832FF-01
Date of Receipt	:	Dec 01, 2020
Testing Start Date	:	Dec 01, 2020
Testing End Date	:	Dec 14, 2020
Test result(s)	:	For further details, please refer to the following page(s) (Unless otherwise stated the results shown in this test report refer only to the sample(s) tested)

Signed for
SGS-CSTC Standards Technical Services Co.，Ltd Xiamen Branch Testing Center

Civi Huang
Authorized signatory

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

Test Result Summary

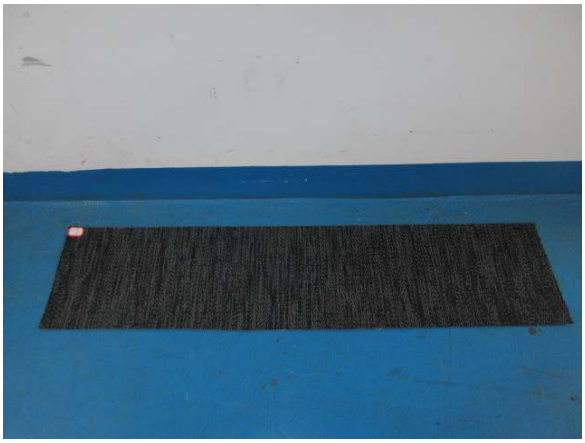
Test(s) Requested	Result(s)	Client's requirement:	Conclusion:
EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests	Classification: B_{fl}-s1	**B_{fl}-s1**	Met the client's requirement.

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

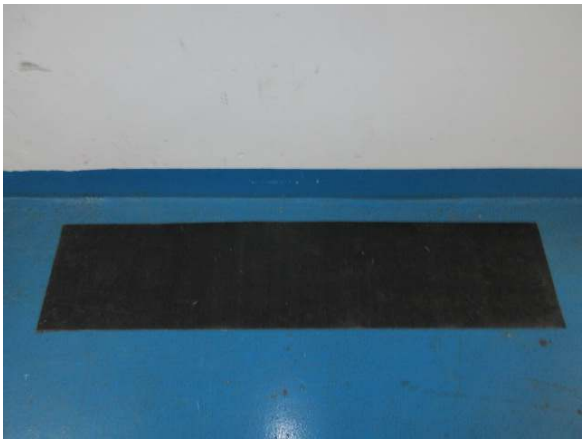
SAMPLE INFORMATION AND PICTURES

Thickness of test specimen: About 2.8mm

Density of test specimen: About 3.20kg/m^2



Sample face



Sample back

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

TESTS AND RESULTS

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 ISO 9239-1:2010 Reaction to fire tests for floorings-Part 1: Determination of the burning behaviour using a radiant heat source.
2. EN ISO 11925-2:2020 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

Mounting and fixing (For EN ISO 9239-1:2010):

Fibre cement board meets the requirement of EN13501-1 of Class A2-s1,d0, with its density about 1800kg/m^3, thickness about 8mm, is as the substrate.

The specimens were fixed mechanically to the substrate.

Test Results:

Test method	Parameter	Number of tests	Results
EN ISO 9239-1:2010	The mean value for the critical heat flux (CHF) from the same orientation	3	9.9 kW/m^2
	Smoking measurement Integrated smoke value		103.6 %×min
	Comments and Observation		Charring
EN ISO 11925-2:2020 Exposure = 15 s	*F*s ≤ 150 mm within 20 s	6	Yes

Remark：

1). Above value is the mean value for the critical flux (CHF and/or HF-30) from the three same orientation specimens.

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

TEST REPORT

Classification and direct field of application
This classification has been carried out in accordance with **EN 13501-1:2018**

Classification:

Fire behaviour		Smoke production	
B_{fl}	—	s	1

Client's requirement: B_{fl}-s1
Conclusion: The submitted sample met the client's requirement.

Remark:
The classes with their corresponding fire performance are given in Table 2.
Reaction to fire classification is based on the 7-step scale of $A1_{fl}$ to F_{fl}, where $A1_{fl}$ is good and F_{fl} 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.

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国·福建·厦门·火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com

Table 2-Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
$A1_{fl}$	EN ISO 1182 [a] and	$\Delta T \leq 30$ °C; and $\Delta m \leq 50$ %; and $t_f = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	*PCS* ≤ 2,0 MJ/kg [a] and *PCS* ≤ 2,0 MJ/kg [b] and *PCS* ≤ 1,4 MJ/m^2 [c] and *PCS* ≤ 2,0 MJ/kg [d]	-
$A2_{fl}$	EN ISO 1182 [a] or	$\Delta T \leq 50$ °C and $\Delta m \leq 50$ % and $t_f \leq 20$ s	-
	EN ISO 1716 and	*PCS* ≤ 3,0 MJ/kg [a] and *PCS* ≤ 4,0 MJ/m^2 [b] and *PCS* ≤ 4,0 MJ/m^2 [c] and *PCS* ≤ 3,0 MJ/kg [d]	-
	EN ISO 9239-1 [e]	Critical flux [f] ≥ 8,0 kW/m^2	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 8,0 kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	*F*s ≤ 150 mm within 20 s	-
C_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 4,5 kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	*F*s ≤ 150 mm within 20 s	-
D_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥ 3,0 kW/m^2	Smoke production [g]
	EN ISO 11925-2 [h]: Exposure = 15 s	*F*s≤150mm within 20 s	-
E_{fl}	EN ISO 11925-2 [h]: Exposure = 15 s	Fs ≤ 150 mm within 20 s	-
F_{fl}	EN ISO 11925-2 [h]: Exposure = 15 s	Fs > 150 mm within 20 s	-

TEST REPORT

[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 attack

Note: 1. The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch.
2. This Report adds conclusion, supersedes the Report No.XMIN2012011792CM dated Dec 14, 2020 issued by SGS, original report will be invalid from today.

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

No.31 Xianghong Road, Xiang'An Torch Industrial Zone, Xiamen, Fujian Province, China. 361101 t (86-592) 5765857 f (86-592) 5765380 www.sgsgroup.com.cn
中国•福建•厦门•火炬（翔安）产业区翔虹路31号 邮编:361101 t (86-592) 5765857 f (86-592) 5765380 e sgs.china@sgs.com