

## No.SDHL2210021183HI

Date: Nov 08, 2022

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NAN JING MGM NEW MATERIALS CO., LTD NO.19 ZHAOYANG ROAD | 211200 DONGPING | CHINA

Sample Description	: VINYL FLOORING
Style No.	: 1524*228*5+1.5mm PADDING
Manufacturer	: NANJING MGM NEW MATERIALS CO., LTD
Supplier	: NANJING MGM NEW MATERIALS CO., LTD
Country of Origin	: CHINA
Country of Destination	: NEW ZEALAND

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

SGS Ref No.	: SDFS2210006649FF
Sample Receiving Date	: Oct 24, 2022
Test Performing Date	: Oct 24, 2022 to Nov 08, 2022
Test Performed	: Selected test(s) as requested by applicant

## **Test Result Summary**

No.	Test(s) Requested	Result(s)	Comments
1	EN 13501-1:2018 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests	Classification: B <sub>fl</sub> -s1	/
For further details, please refer to the following page(s)			

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

Peter Zhao Authorized Signatory





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# **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<sup>3</sup>, thickness about 8mm, is as the substrate.

The specimens were fixed mechanically to the substrate.

## Test Results:

Test method	<u>Parameter</u>	Number of tests	<u>Results</u>
	The mean value for the critical heat flux (CHF) from the same orientation		10.29 kW/m <sup>2</sup>
EN ISO 9239-1:2010	Smoking measurement Integrated smoke value	3	75.3 %×min
	Comments and Observation		Charring
EN ISO 11925-2:2020 Exposure = 15 s	<i>F</i> 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.

## **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 <sub>fl</sub>	_	S	1

#### 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<sub>fl</sub> to F <sub>fl</sub>, where A1<sub>fl</sub> is the highest class and F <sub>fl</sub> is the lowest class.

## 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.



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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.

Class	Test method(s)	Classification criteria	Additional classification
A1 <sub>fl</sub>	EN ISO 1182 <sup>a</sup> and	$\Delta T \le 30$ °C; and $\Delta m \le 50$ %; and $t_{\rm f} = 0$ (i.e. no sustained flaming)	-
	EN ISO 1716	$PCS \le 2,0$ MJ/kg <sup>a</sup> and $PCS \le 2,0$ MJ/kg <sup>b</sup> and $PCS \le 1,4$ MJ/m <sup>2 c</sup> and $PCS \le 2,0$ MJ/kg <sup>d</sup>	-
A2 <sub>fl</sub>	EN ISO 1182 <sup>a</sup> or	$\Delta T \le 50$ °C and $\Delta m \le 50$ % and $t_{\rm f} \le 20$ s	-
	EN ISO 1716 and	$PCS \le 3,0 \text{ MJ/kg}^{a}$ and $PCS \le 4,0 \text{ MJ/m}^{2 b}$ and $PCS \le 4,0 \text{ MJ/m}^{2 c}$ and $PCS \le 3,0 \text{ MJ/kg}^{d}$	-
	EN ISO 9239-1 <sup>e</sup>	Critical flux $f \ge 8,0$ kW/m <sup>2</sup>	Smoke production <sup>g</sup>
B fl	EN ISO 9239-1 <sup>e</sup> and	Critical flux <sup>f</sup> ≥ 8,0 kW/m <sup>2</sup>	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$F$ s $\leq$ 150 mm within 20 s	-
C fl	EN ISO 9239-1 ° and	Critical flux $f \ge 4,5 \text{ kW/m}^2$	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	$Fs \le 150 \text{ mm}$ within 20 s	-
D fl	EN ISO 9239-1 <sup>e</sup> and	Critical flux <sup>f</sup> ≥ 3,0 kW/m <sup>2</sup>	Smoke production <sup>g</sup>
	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	<i>F</i> s≤150mm within 20 s	-
E fl	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	Fs ≤ 150 mm within 20 s	-
F fl	EN ISO 11925-2 <sup>h</sup> : Exposure = 15 s	Fs > 150 mm within 20 s	-

#### Table 2-Classes of reaction to fire performance for floorings



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<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> For any internal non-substantial component of non-homogeneous products.

<sup>d</sup> For the product as a whole.

<sup>e</sup> Test duration = 30 min.

- <sup>f</sup> 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).
- <sup>g</sup> **s1** = Smoke  $\leq$  750 % minutes;

**s2** = not s1.

<sup>h</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

Thickness of test specimen:4.0mmDensity of test specimen:10.2kg/m²



Sample face



Sample back

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



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