

## TEST REPORT

No. : GZIN2108047485MR

Date : Aug 30, 2021

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CUSTOMER NAME: GUANG DONG XIONG XING NEW MATERIAL CO.LTD  
ADDRESS: JIYU VILAGE, YUANTAN TOWN, QINGCHENG DISTRICT,  
QINGYUAN CITY, GUANGDONG PROVINCE

Sample Name : 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.

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SGS Ref. No. : CP21-043624  
Date of Receipt : Aug 16, 2021  
Testing Start Date : Aug 16, 2021  
Testing End Date : Aug 30, 2021  
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. GZ Branch Testing  
Center

May Huo  
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.  
Guangzhou Branch Testing Center/Reliability Laboratory

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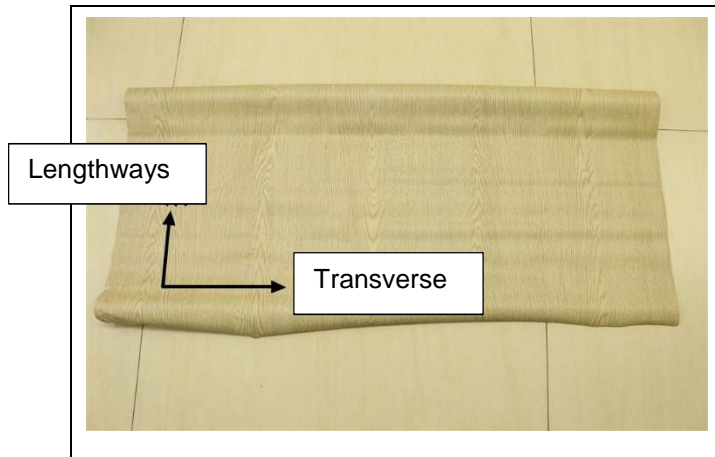
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Summary of Results:

No.	Test Item	Test Method	Result	Conclusion
1	Fire classification for burning behavior of flooring material	GB 8624-2012 Clause 5.1.2 & GB/T 11785-2005 & GB/T8626-2007	GB 8624 B <sub>1</sub> (B-s1)	Pass

Note: Pass : Meet the requirements;  
 Fail : Does not meet the requirements;  
 / : Not Apply to the judgment.

Original Sample Photo:



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Test item: Fire Classification for Burning Behavior of Flooring Material

Sample Description: Sheet

Test Method: GB 8624-2012 Clause 5.1.2 & GB/T 11785-2005 & GB/T 8626-2007

Test result:

I . GB/T 11785-2005 Reaction to fire test for flooring—Determination of the burning behavior using a radiant heat source

Specimen:

Transverse:1050mm× 230mm × 0.16mm

Lengthways:1050mm× 230mm × 0.16mm

Flame application time: 10min

Mounting and fixing: Calcium silicate board, with its density about 1016kg/m<sup>3</sup>, thickness about 21.4mm, is as the substrate. The specimens were fixed mechanically to the substrate.

Transverse:

Specimen No.	Furthest extent of spread of flame, mm	Critical heat flux (CHF), kW/m <sup>2</sup>	Integrated smoke value , %-min
1	70	≥11	163.3
2	90	≥11	135.9
3	80	≥11	140.4
Average	80	≥11	147

Lengthways:

Specimen No.	Furthest extent of spread of flame, mm	Critical heat flux (CHF), kW/m <sup>2</sup>	Integrated smoke value , %-min
1	90	≥11	188.1
2	70	≥11	121.7
3	70	≥11	139.4
Average	77	≥11	150

Note:

1. Test specimens were cut from the sample.



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2. Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux  $\geq 11\text{kW/m}^2$ .
3. The striped surface was faced to the flame.
4. Observations of the burning characteristics: Charring.

## II. GB/T 8626-2007 Test method of flammability for building materials.

Specimen:

Transverse: 250mm x 90mm x 0.16mm

Lengthways: 250mm x 90mm x 0.16mm

Flame application time: 15s

Exposure conditions	Edge exposure						Surface exposure					
	Transverse			Lengthways			Transverse			Lengthways		
Specimen No.	1	2	3	1	2	3	1	2	3	1	2	3
Whether ignition occurs	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Whether the flame tip reaches 150 mm above the flame application point within 20s	No	No	No	No	No	No	No	No	No	No	No	No
Whether ignition of the filter paper occurs	No	No	No	No	No	No	No	No	No	No	No	No



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**Note:**

1. Test specimens were cut from the sample.
2. The striped surface was faced to the flame.
3. Observations of the burning characteristics: Charring.

**Result:**

According to the test result and classification criteria (See table 1 & table 2), the submitted sample satisfies GB 8624-2012 Class B<sub>1</sub>.

Combustion properties identified as: GB 8624 B<sub>1</sub> (B-s1)

Client's requirement: B<sub>1</sub>

Conclusion: Pass

**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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Table 1. Classes of reaction to fire performance for floorings

Class		Test method(s)		Classification criteria
A	A1	GB/T 5464 <sup>a</sup> and		$\Delta T \leq 30 \text{ }^\circ\text{C}$ ; and $\Delta m \leq 50 \%$ ; and $t_f = 0$ (no sustained flaming)
		GB/T 14402		$PCS \leq 2,0 \text{ MJ/kg}$ <sup>a, b, d</sup> and $PCS \leq 1,4 \text{ MJ/m}^2$ <sup>c</sup> and
	A2	GB/T 5464 <sup>a</sup> or GB/T 14402	and	$\Delta T \leq 50 \text{ }^\circ\text{C}$ and $\Delta m \leq 50 \%$ and $t_f \leq 20 \text{ s}$
				$PCS \leq 3,0 \text{ MJ/kg}$ <sup>a, d</sup> and $PCS \leq 4,0 \text{ MJ/m}^2$ <sup>b, c</sup> and
		GB/T 11785 <sup>e</sup>	and	Critical flux $\geq 8,0 \text{ kW/m}^2$
B <sub>1</sub>	B	GB/T 11785 <sup>e</sup> and		Critical flux $\geq 8,0 \text{ kW/m}^2$
		GB/T 8626 Exposure =15s		$F_s \leq 150 \text{ mm}$ within 20 s
	C	GB/T 11785 <sup>e</sup> and		Critical flux $\geq 4,5 \text{ kW/m}^2$
		GB/T 8626 Exposure =15s		$F_s \leq 150 \text{ mm}$ within 20 s
B <sub>2</sub>	D	GB/T 11785 <sup>e</sup> and		Critical flux $\geq 3,0 \text{ kW/m}^2$
		GB/T 8626 Exposure =15s		$F_s \leq 150 \text{ mm}$ within 20 s
	E	GB/T 11785 <sup>e</sup> and		Critical flux $\geq 2,2 \text{ kW/m}^2$
		GB/T 8626 Exposure =15s		$F_s \leq 150 \text{ mm}$ within 20 s
B <sub>3</sub>	F	No performance determined		
<p><sup>a</sup> For homogeneous products and substantial components of non-homogeneous products.</p> <p><sup>b</sup> For any external non-substantial component of non-homogeneous products.</p> <p><sup>c</sup> For any internal non-substantial component of non-homogeneous products.</p> <p><sup>d</sup> For the product as a whole.</p> <p><sup>e</sup> Test duration = 30 min.</p>				



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Table 2. Smoke production levels and grading criterion

Smoke production	Test Method	Requirement
s1	GB/T 11785	Smoke $\leq 750$ %xmin
s2		not s1.

Test Photo:



During test- Radiant heat source



Before test- Radiant heat source-Transverse



After test- Radiant heat source-Transverse



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<p>Before test- Radiant heat source-Lengthways</p>	<p>After test- Radiant heat source-Lengthways</p>
	
<p>During test- Ignitability- Edge exposure</p>	<p>During test- Ignitability- Surface exposure</p>



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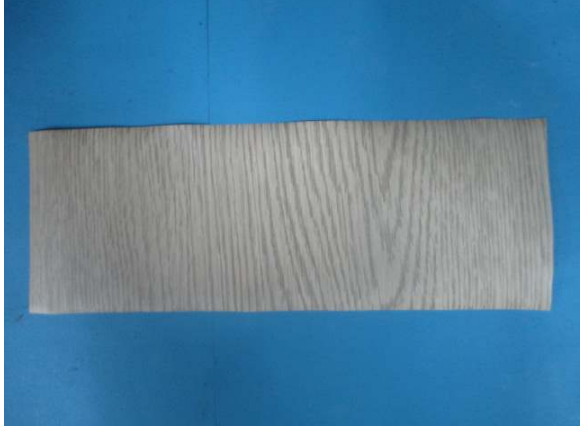
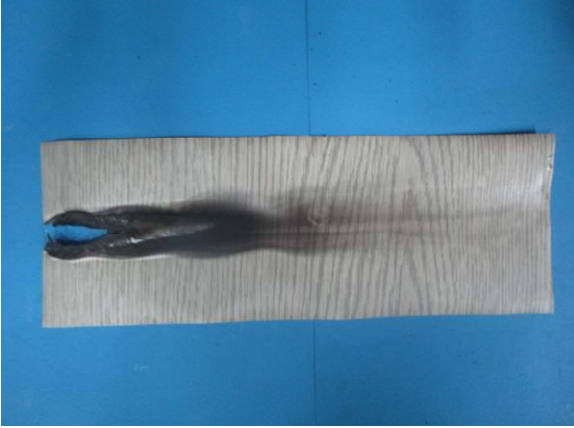

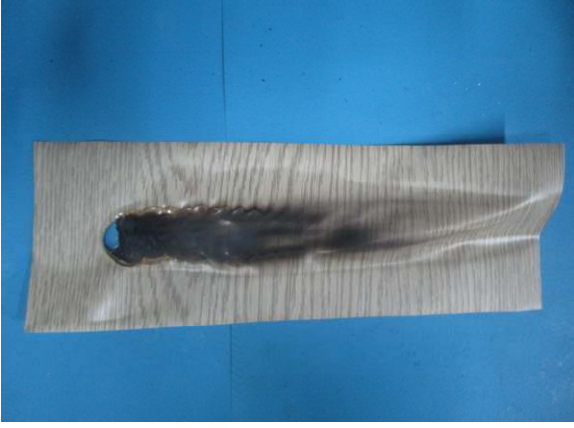
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<p>Before test- Ignitability- Edge exposure -Transverse</p>	<p>After test- Ignitability- Edge exposure -Transverse</p>
	
<p>Before test-Ignitability- Surface exposure -Transverse</p>	<p>After test- Ignitability- Surface exposure -Transverse</p>



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<p>Before test- Ignitability- Edge exposure - Lengthways</p>	<p>After test- Ignitability- Edge exposure - Lengthways</p>
	
<p>Before test- Ignitability- Surface exposure- Lengthways</p>	<p>After test- Ignitability- Surface exposure - Lengthways</p>



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Equipment Information:

Equipment	Model	Equipment No.	Calibration date	Next Calibration date
Ignitability tester	SIT	GZMR-PL-E226	2021-04-19	2022-04-18
Flooring Radiant Panel Tester	FPR	GZMR-PL-E227	2021-06-08	2022-06-07

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

