

TEST REPORT

No. : XMIN2011010845CM

Date : Nov 25, 2020

Page: 1 of 10

scan to see the report



XMIN2011010845CM

CUSTOMER NAME: HEBEI LUJU PLASTIC PRODUCTS CO.,LTD
ADDRESS: CHENG Dong ECONOMIC DEVELOPMENT ZONE, XIONGXIAN
COUNTY, BAODING CITY, HEBEI PROVINCE

Sample Name : MULTILAYERED FLOORING

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. : GZIN2011063171MR
Date of Receipt : Nov 06, 2020
Testing Start Date : Nov 06, 2020
Testing End Date : Nov 25, 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

Bryan

Bryan Hong
Authorized signatory



SGS-CSTC Standards Technical Services Co., Ltd.
Xiamen Branch Testing Center Commercial Construction Material Laboratory

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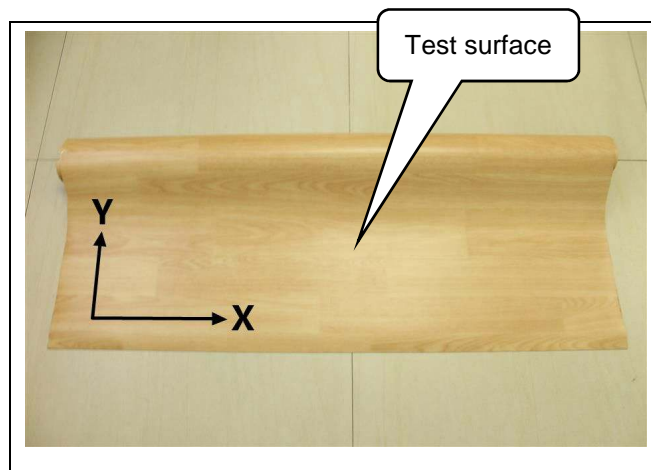
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Summary of Results:

No.	Test Item	Test Method	Result
1	Fire classification for burning behavior of flooring material	EN 13501-1:2018 Clause 9 & EN ISO 9239-1:2010 & EN ISO 11925-2:2020	B _{fl} —s1

Original Sample Photo:



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Test item: Fire Classification for Burning Behavior of Flooring Material

Sample Description: Floor

Test Method: EN 13501-1:2018 Clause 9 & EN ISO 9239-1:2010 & EN ISO 11925-2:2020

Test Result:

I . EN ISO 9239-1:2010 Reaction to fire tests for floorings-Part 1: Determination of the burning

behaviour using a radiant heat source

Specimen: 1050mm × 230mm × 2.0 mm

Flame application time: 10min

Mounting and fixing: Calcium silicate board, with its density about 1016kg/m³, thickness about 21.4mm, is as the substrate. The specimens were fixed mechanically to the substrate.

Specimen No.		Furthest extent of spread of flame, mm	Critical heat flux (CHF), kW/m ²	Integrated smoke value, %-min
X direction	1	120	10.64	227.9
	2	150	10.16	269.5
	3	130	10.48	247.6
	Average	130	10.4	248
Y direction	1	100	> 11(see note 2)	177.5
	2	90	> 11(see note 2)	148.6
	3	100	> 11(see note 2)	160.0
	Average	100	> 11(see note 2)	162

Note:

1. Test specimens were cut from the sample.
2. Specimens that do not ignite or which spread flame less than 110 mm have a critical heat flux ≥ 11kW/m².
3. Observations of the burning characteristics: Charring.



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II. EN ISO 11925-2:2020 Reaction to fire tests-Ignitability of products subjected to direct impingement

of flame-Part 2: Single-flame source test.

Specimen: 250mm × 90mm × 2.0 mm

Flame application time: 15s

Exposure conditions	Edge exposure						Surface exposure					
Direction	X direction			Y direction			X direction			Y direction		
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

Note: Test specimens were cut from the sample.

Conclusion:

According to the test result and classification criteria (See table 1), the submitted sample satisfies Class B_{fl}

Reaction to fire classification: B_{fl}—s1



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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.

Table 1. Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
A1 _{fl}	EN ISO 1182 ^a and	$\Delta T \leq 30 \text{ }^{\circ}\text{C}$; and $\Delta m \leq 50 \text{ } \%$; 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 _{fl}	EN ISO 1182 ^a or	$\Delta T \leq 50 \text{ }^{\circ}\text{C}$ and $\Delta m \leq 50 \text{ } \%$ and $t_f \leq 20 \text{ s}$	-
	EN ISO 1716 and	$PCS \leq 3,0 \text{ MJ/kg}$ ^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
B _{fl}	EN ISO 9239-1 ^e and	Critical flux ^f $\geq 8,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-



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Class	Test method(s)	Classification criteria	Additional classification
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	Fs ≤ 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	Fs ≤ 150 mm 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	-

^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



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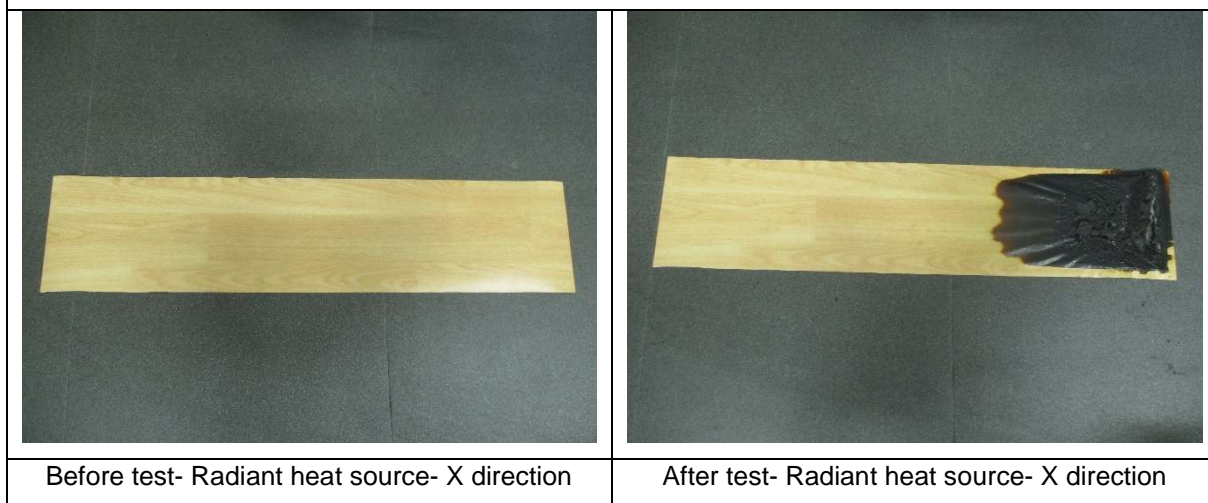
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Test Photo:



During test- Radiant heat source



Before test- Radiant heat source- X direction

After test- Radiant heat source- X direction



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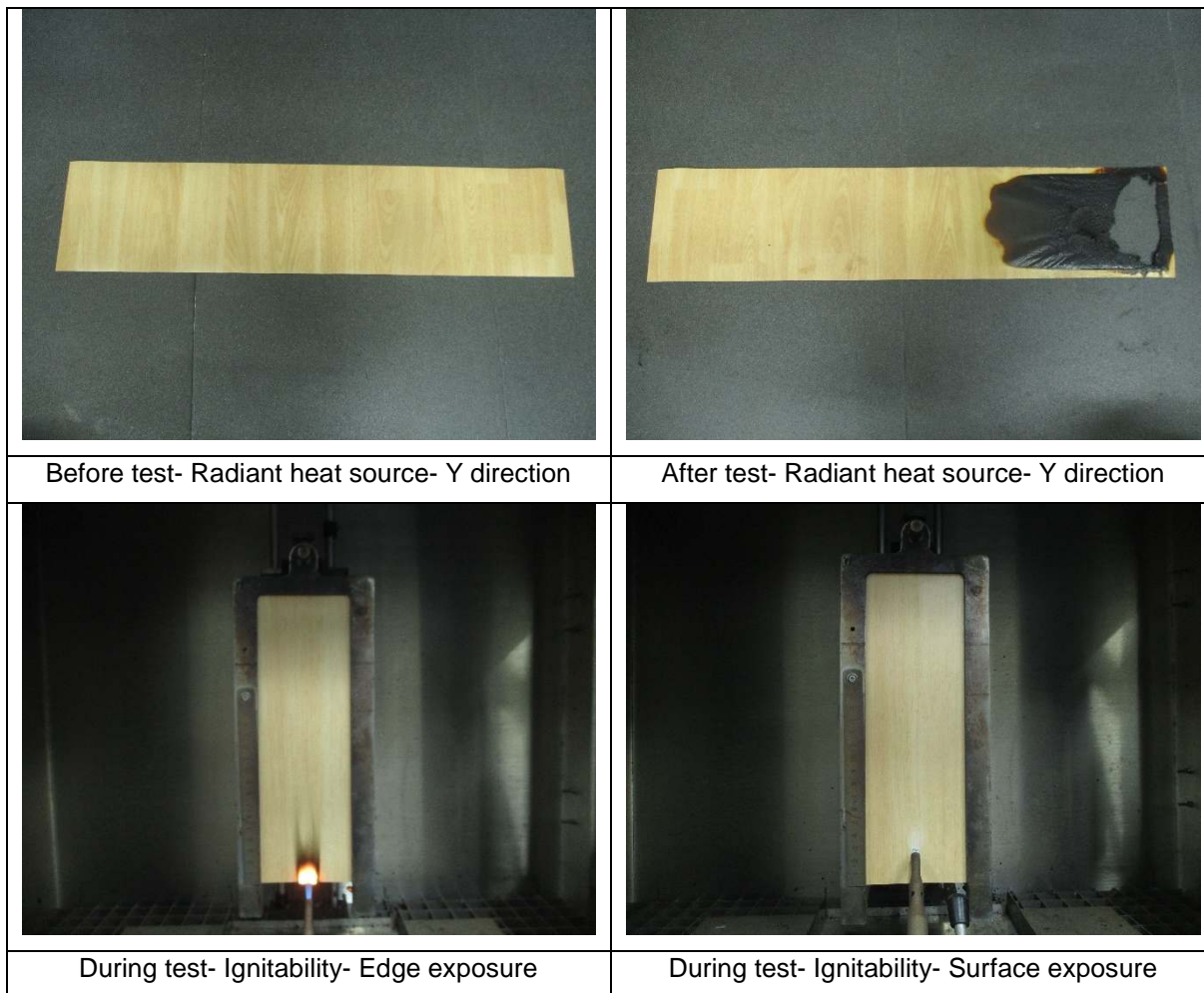
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<p>Before test- Ignitability- Edge exposure- X direction</p>	<p>After test- Ignitability- Edge exposure- X direction</p>
	
<p>Before test- Ignitability- Edge exposure- Y direction</p>	<p>After test- Ignitability- Edge exposure- Y direction</p>



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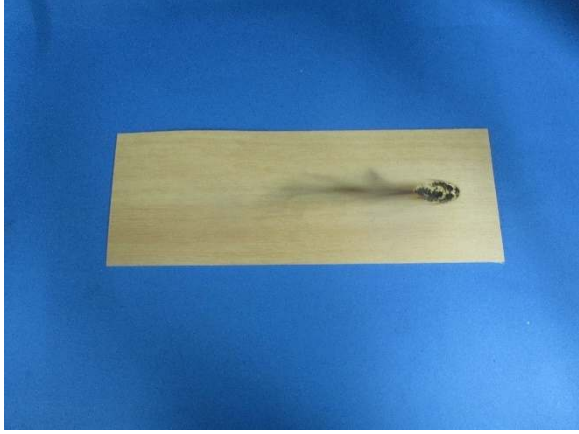
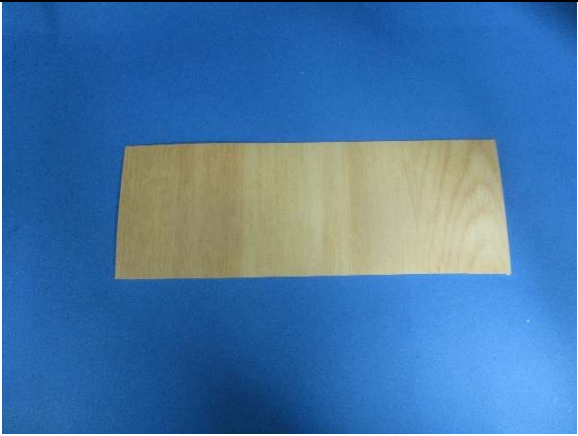
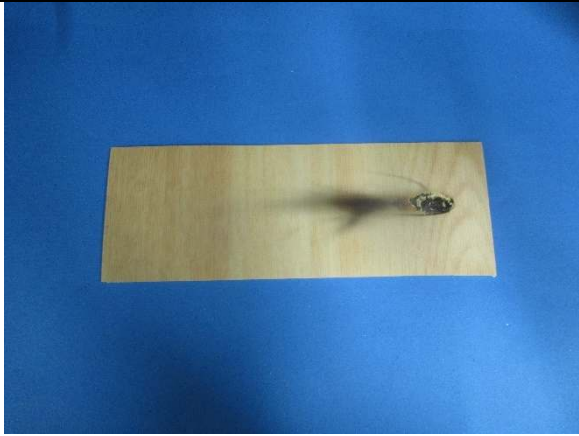
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Before test-Ignitability- Surface exposure- X direction	After test- Ignitability- Surface exposure- X direction
	
Before test-Ignitability- Surface exposure- Y direction	After test- Ignitability- Surface exposure- Y direction

Note: The above test was carried out by SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch.

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



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