中国认可
国际互认
检测
TESTING
CNAS L6069

Test Report

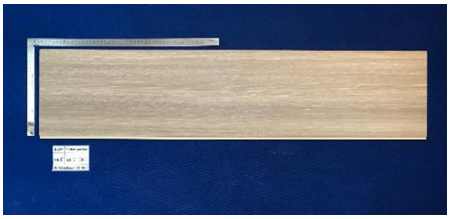
Report No. TC.24.01.000258

Date of Issue 02/21/2024

Applicant: CHANGZHOU DACHUAN ENVIRONMENTAL PROTECTION TECHNOLOGY DEVELOPMENT CO., LTD.

Applicant address: NO.2, CHUANGSHENG ROAD, INDUSTRIAL CONCERNTRATION AREA, LUOYANG TOWN, WUJIN DISTRICT, CHANGZHOU, JIANGSU CHINA

Description of the test subject:

Sample	Description	Photo
001	Sample Description: SWF	

Receipt Date of Sample: 01/15/2024

Date of Testing: From 01/15/2024 to 01/22/2024

Sample Submitted: The sample(s) was (were) submitted by applicant and identified.

Conclusion:

Test Items			Conclusion
No.	Items	Standard	
1	Burning behaviour	EN 13501-1:2018	$A2_{fl}$ - s1

Remark: This Report is the English Version of Test Report No. TC.24.01.000142.

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Test Results

EN 13501-1:2018 Fire classification of construction products and building elements- Part 1: Classification using data from reaction to fire tests

1. EN ISO 9239-1:2010 Reaction to fire tests for floorings —Part 1: Determination of the burning behavior using a radiant heat source

1.1 Sample details:

Specimen size	1050mm×230mm
Thickness	About 7.8 mm

Precondition	Temperature (℃)	Humidity (%)	Duration
	23±2	50±5	Adjust to constant weight

1.2 Test results:

Specimen	Direction 2	Direction 1			
	4	1	2	3	Average
Maximum flame front distance(cm)	0	0	0	0	0
Critical radiant flux at extinguishment-CHF(kW/m^2)	≥11.0	≥11.0	≥11.0	≥11.0	≥11.0
HF-10(kW/m^2)	--	--	--	--	--
HF-20(kW/m^2)	--	--	--	--	--
HF-30(kW/m^2)	--	--	--	--	--
Maximum light attenuation (%)	3.6	3.5	3.1	3.1	3.2
Integrated smoke value (% x min)	12.43	11.92	10.47	10.88	11.09
Transitory flaming(Yes/No)	No	No	No	No	--
Melting(Yes/No)	No	No	No	No	--
Blistering(Yes/No)	No	No	No	No	--
Glowing combustion(Yes/No)	No	No	No	No	--
Penetration(Yes/No)	No	No	No	No	--

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1.2 EN ISO 1716:2010 Reaction to fire tests for products —Determination of the gross heat of combustion (calorific value).

1.2.1 Sample details:

Conditioning	Temperature (℃)	Humidity(%)	Duration(h)
	23±2	50±5	≥48

1.2.2 Test results:

Result	1	2	3
m,(g)	1.0014	1.0009	1.0021
Q_{PCS},(MJ/kg)	0	0	0
AVG Q_{PCS},(MJ/kg)	0		

Remark:

m– Mass of the test specimen,

Q_{PCS} – Is the gross heat of combustion.

EN 13501-1:2018 table 2 - classification：

Classification	Test method		Classification criteria
$A2_{fl}$	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		Critical flux ≥ 8.0 kW/m^2
Additional classification	Smoke	s1	Smoke ≤ 750 %×minutes
		s2	Not s1

[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.

Conclusion:

Test standard	Record	Conclusion
EN ISO 1716	PCS= 0 MJ/kg	$A2_{fl}$ - s1
EN ISO 9239-1	Critical flux: ≥11.0 kW/m^2 Smoke: 11.09(% × min)	

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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 the sole criterion for assessing the potential smoke and toxicity hazard of the product in use. Test results are just for internal reference.

TÜV SÜD SW Rail Transportation Technology (Jiangsu) Co., Ltd.

Drafted by:

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Approved by:

Wayne Wang

-End of Report-

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