

GUANGZHOU HEDSOM BUILDING MATERIAL CO.,LTD
 #3-122,NO.555,HUANGPU AVENUE EAST,TIANHE DISTRICT,
 GUANGZHOU CITY,GUANGDONG PROVINCE,CHINA

Sample Description : PVC VINYL FLOORING

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. : SDFS2310006266FF
 Sample Receiving Date : Oct 24, 2023
 Test Performing Date : Oct 24, 2023 to Nov 07, 2023
 Test Performed : Selected test(s) as requested by applicant

Test Result Summary

No.	Test(s) Requested	Result(s)	Comments
1	EN 14041:2018 Resilient, textile, laminate and modular multilayer floor coverings - Essential characteristics. Clause 4.1.3 Classification according to the test results.	Classification: B _{fl} -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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Test Conducted:

EN 14041:2018 Resilient, textile, laminate and modular multilayer floor coverings - Essential characteristics. Clause 4.1.3 Classification according to the test results. Shall be tested and classified according to EN 13501-1:2007+A1:2009 Fire classification of construction products and building elements-Part 1: Classification using data from reaction to fire tests: Table 2-Classes of reaction to fire performance for floorings.

And the test methods as following:

1. EN ISO 9239-1:2002 Reaction to fire tests for floorings-Part 1: Determination of the burning behaviour using a radiant heat source.
2. EN ISO 11925-2:2002 Reaction to fire tests-Ignitability of building products subjected to direct impingement of flame-Part 2: Single-flame source test.

I. Sample Description:

Density or mass per area	2.87kg/m ²
Construction	/
Thickness	2.0mm

II. Classification:

Fire behaviour		Smoke production	
B _{fl}	—	s	1

III. Substate and affixation:

Substrate	Non-combustible substrate, comprised of a fibre cement board (in accordance with ISO 390:1993) with thickness (8 ± 2) mm, with density (1800 ± 200) kg/m ³ and with class A _{2FL-s1} (tested according to EN ISO 9239-1:2010 as flooring but without a substrate);
Affixation	loose laid (i.e. no adhesive is used).

IV. Test Result

Test method	Parameter	Number of tests	Results
EN ISO 9239-1:2002	The mean value for the critical heat flux (CHF) from the same orientation	3	10.54
	Smoking measurement Integrated smoke value		90.8
	Comments and Observation		Charring
EN ISO 11925-2:2002 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.



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V. Requirement:

EN 13501-1 Table 2-Classes of reaction to fire performance for floorings

Class	Test method(s)	Classification criteria	Additional classification
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	-
C _{fl}	EN ISO 9239-1 ^e and	Critical flux $f \geq 4,5 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
D _{fl}	EN ISO 9239-1 ^e and	Critical flux $f \geq 3,0 \text{ kW/m}^2$	Smoke production ^g
	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
E _{fl}	EN ISO 11925-2 ^h : Exposure = 15 s	$F_s \leq 150 \text{ mm}$ within 20 s	-
F _{fl}	No performance determined		

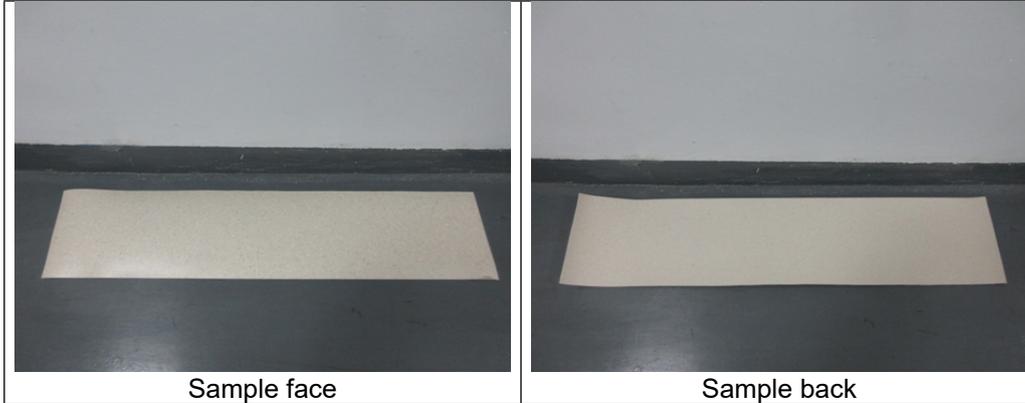
^e Test duration = 30 min.
^f Critical flux is defined as the radiant flux at which the flame extinguishes or the radiant flux after a test period of 30 min, whichever is the lower (i.e. the flux corresponding with the furthest extent of spread of flame).
^g **s1** = Smoke $\leq 750 \%$ minutes;
s2 = 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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Photo Appendix:



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



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