TOPFLOR PLASTICS NANTONG CO., LTD.

NO.10, TAO YUAN ROAD, NANTONG JIANGSU, CHINA

Sample Description: SPORTS FLOORING

SGS Ref No.: CZHL2403001449HI

Style No.: 8.0mm

Item No.: 24020311

Supplier: TOPFLOR PLASTICS NANTONG CO., LTD.

Manufacturer: TOPFLOR PLASTICS NANTONG CO., LTD.

Country of Origin: CHINA

Country of Destination: SINGAPORE

The above sample(s) was / were submitted and identified on behalf of the client. SGS is not responsible for the authenticity, integrity and results of the data and information and / or the validity of the conclusion arising therefrom. Results apply to the sample as received.

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Test Requested:

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

Test Results: -- See attached sheet –

Test Period:

Sample Receiving Date	:	MAR.12, 2024
Test Performing Date	:	MAR.12, 2024 TO MAR.25, 2024

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

Echo Li
Approved Signatory

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I. Test conducted

This test was 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 products subjected to direct impingement of flame - Part 2: Single-flame source test.

II. Details of classified product

Sample description	Sports Flooring (provided by client)
Color	Yellow
Sample Size	EN ISO 9239-1: 1050 mm × 230 mm EN ISO 11925-2: 250 mm × 90 mm
Thickness	8.0mm
Mass per unit area	4.9 kg/m^2
Exposed surface	Wood grain surface

Mounting and fixing:

Fibre cement board with a density of approximate 1800kg/m^3 and a thickness of approximate 9mm was used as the substrate. The test specimens were fixed to the substrate mechanically. There were no joints in the specimens.

III. Test results

Test methods	Parameter	Number of tests	Results
EN ISO 9239-1	Critical flux (kW/m^2)	3	7.3
	Smoke (%×minutes)		210.8
EN ISO 11925-2 Exposure = 15 s	Whether vertical flame spread (Fs) in excess of 150 mm within 20 s (Yes/No)	6	No

IV. Classification and direct field of application

a) Reference of classification

This classification has been carried out in accordance with **EN 13501-1:2018**.

b) Classification

The product, Sports Flooring (provided by client), in relation to its reaction to fire behaviour is classified:

Fire behaviour		Smoke production	
C_{fl}	—	s	1

Reaction to fire classification: C_{fl}—s1

Remark: The classes with their corresponding fire performance are given in annex A.

c) Field of application

This classification is valid for the following end use applications:

--- With all substrates classified as A1 or A2

--- With mechanically fixing

--- No joint

This classification is valid for the following product parameters:

--- Characteristics as described in section II of this test report.

Statement: This declaration of conformity is only based on the result of this laboratory activity, the impact of the uncertainty of the results was not included.

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Annex A

Classes of reaction to fire performance for floorings

Class	Test methods	Classification	Additional classification
$A1_{fl}$	EN ISO 1182 [a] and	$\Delta T \leq 30℃$, and $\Delta m \leq 50\%$, and t_f=0(i.e. no sustained flaming)	-
	EN ISO 1716	PCS≤2.0MJ/kg [a] and PCS≤2.0MJ/kg [b] and PCS≤1.4MJ/m^2 [c] and PCS≤2.0MJ/kg [d]	-
$A2_{fl}$	EN ISO 1182 [a] or	$\Delta T \leq 50℃$, and $\Delta m \leq 50\%$, and $t_f \leq 20s$	-
	EN ISO 1716 and	PCS≤3.0MJ/kg [a] and PCS≤4.0MJ/m^2 [b] and PCS≤4.0MJ/m^2 [c] and PCS≤3.0MJ/kg [d]	-
	EN ISO 9239-1 [e]	Critical flux [f] ≥8.0kW/ m^2	Smoke production [g]
B_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥8.0kW/ m^2	Smoke production [g]
	EN ISO 11925-2 [h] Exposure =15s	Fs≤150mm within 20 s	-
C_{fl}	EN ISO 9239-1 [e] and	Critical flux [f] ≥4.5kW/ m^2	Smoke production [g]
	EN ISO 11925-2 [h] Exposure =15s	Fs≤150mm 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 =15s	Fs≤150mm within 20 s	-
E_{fl}	EN ISO 11925-2 [h] Exposure =15s	Fs≤150mm within 20 s	-
F_{fl}	EN ISO 11925-2 [h] Exposure =15s	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.

Photo Appendix:

SGS authenticate the photo on original report only

End of Report

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