JIAXING GOLD LION DECORATION MATERIAL CO.,LTD

NO.2, HUASHANHUI ROAD, HUANGWAN TOWN, HAINING,ZHEJIANG,CHINA

The following sample(s) was / were submitted and identified on behalf of the client as:

Sample Description: SPC FLOOR

SGS Ref No.: SHIN180501402CCM

Product Specification: 1220mm×183mm×5.5mm

Test Requested:

1. ASTM E648-2017 Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source
2. ASTM E662-2017a Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date	:	MAY.09, 2018
Test Performing Date	:	MAY.09, 2018 TO MAY.28, 2018

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

Allen Zou
Technical Manager

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1. ASTM E648-2017

I. Test conducted

This test was conducted in accordance with ASTM E648-2017 Standard test method for critical radiant flux of floor-covering systems using a radiant heat energy source.

II. Sample details

Description	SPC floor
Color	Brown
Specimen size	Length: 1051mm Width: 183mm Thickness: 5.5mm 3 PCS

Precondition	Temperature: 21±3 ℃, Humidity: 50±5%

III. Test results

Distance (mm)	S1	S2	S3
	Time minute: second	Time minute: second	Time minute: second
50	06:52	05:48	05:25
100	07:08	08:36	06:44
150	-	-	-
200	-	-	-
250	-	-	-
300	-	-	-
350	-	-	-
400	-	-	-
450	-	-	-
500	-	-	-
550	-	-	-
600	-	-	-
650	-	-	-
700	-	-	-
750	-	-	-
800	-	-	-
850	-	-	-
900	-	-	-
950	-	-	-
1000	-	-	-
1050	-	-	-
Extinguishing time	10:00	10:00	10:00
Burned distance (mm)	110	110	110

To be continued…

	S1	S2	S3	Average	S	V
Critical radiant flux (W/cm^2)	≥1.1	≥1.1	≥1.1	≥1.1	0	0

Remark:

S—standard deviation; V—coefficient of variation

Classification: NFPA 101-2012 Life Safety Code Chapter 10 Interior Finish, Contents, and Furnishings Clause 10.2.7 Interior Floor Finish Test and Classification,

(1) Class I interior floor finish shall be characterized by a critical radiant flux not less than 0.45 W/cm^2.

(2) Class II interior floor finish shall be characterized by a critical radiant flux not less than 0.22 W/cm^2 but less than 0.45 W/cm^2.

Since the tested sample received an average Critical radiant flux ≥1.1 W/cm^2, it meets the requirements of Class I for interior floor finish specified in NFPA 101-2012 clause 10.2.7.

2. ASTM E662-2017a

I. Test conducted

This test was conducted according to ASTM E662-2017a Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.

II. Sample details

Description	SPC floor
Color / Thickness	Brown / About 5.5mm
Dimension	75mm×75mm

Condition prior to testing	Prior to testing, the submitted sample was dried for 48 h at 60±3℃ and then 23±3℃ and R.H 50±5% till constant weight

Irradiance Exposure	2.50±0.05 W/cm^2
Test face	Stripe surface

To be continued…

III. Test results

1) Flaming mode

	Test Specimen			Flaming dripping or flaming running	Average Optical density
	#1	#2	#3		
Temperature of chamber wall (℃)	40	40	40	No	
$D_{S\ 1.5}$	7.5	8.1	6.4		7.3
$D_{S\ 4.0}$	126.8	120.3	118.9		122.0
D_m	427.5	410.4	408.3		415.4
t_{D_m} (min)	13.2	12.1	11.9		12.4
Dm(corr)	402.0	389.3	387.6		393.0
Observations	Color of smoke: White				

2) Non - Flaming mode

	Test Specimen			Flaming dripping or flaming running	Average Optical density
	#1	#2	#3		
Temperature of chamber wall (℃)	40	40	40	No	
$D_{S\ 1.5}$	0.2	0	0.1		0.1
$D_{S\ 4.0}$	6.8	7.0	6.1		6.6
D_m	250.4	241.3	238.9		243.5
t_{D_m} (min)	20.0	20.0	20.0		20.0
Dm(corr)	250.4	241.3	238.9		243.5
Observations	Color of smoke: White				

Note:

$D_{s1.5}$ — Specific optical density at 1.5 minutes;

$D_{s4.0}$ — Specific optical density at 4.0 minutes;

D_m — Maximum Specific optical density at any time during the 20 minutes;

t D_m— The time in minutes for the smoke to accumulate to the maximum specific optical density;

$D_{m(corr)}$ —Dm corrected for incidental deposits on the optical surface.

To be continued…

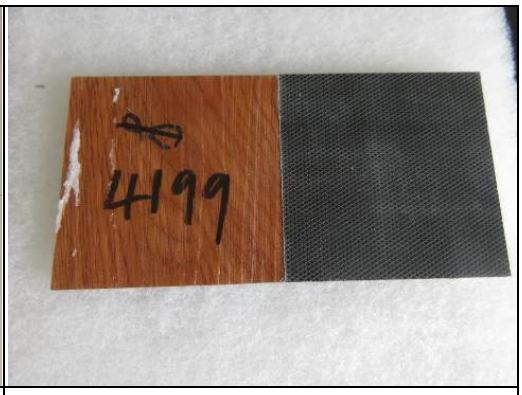
STATEMENTS:

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.

The test results relate only to the specimens of the product in the form in which were tested. Small differences in the composition or thickness of the product may significantly affect the performance during the test and may therefore invalidate the test results. Care should be taken to ensure that any product, which is supplied or used, is fully represented by the specimens, which were tested.

The specimen was supplied by the sponsor and SGS-CSTC ANJI Branch was not involved in any selection or sampling procedure.

Photo Appendix:

	
ASTM E648-2017	ASTM E662-2017a

SGS authenticate the photo on original report only

End of Report

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