

Test Report

No. AJFS1712011585FF

Date: JAN.02, 2018

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KINGKUS NEW MATERIAL CO., LTD.

ZHITANG TOWN, CHANGSHU CITY, JIANGSU PROVINCE, CHINA

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

Sample Description: POLYESTER FIBER ACOUSTIC PANEL**SGS Ref No.:** SHIN171203901CCM**Product Specification:** 2420×1220×12mm**Test Requested:**

BS 476 Part 7:1997+Amd.No.C1:2014 "Fire tests on building materials and structures Part 7: Method of test to determine the classification of the surface spread of flame of products".

Test Results: -- See attached sheet --

Test Period:

Sample Receiving Date : DEC.26, 2017

Test Performing Date : DEC.26, 2017 TO DEC.29, 2017

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

Allen Zou
Technical ManagerSGS-CSTC Inspection & Testing Services Co., Ltd.
Anji Branch Hardlines

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Test conducted

This test was performed in accordance with the procedure specified in BS 476 Part 7:1997+Amd.No.C1: 2014 “Fire tests on building materials and structures Part 7. Method of test to determine the classification of the surface spread of flame of products”.

I. Sample details

Sample description	POLYESTER FIBER ACOUSTIC PANEL
Thickness	About 12mm
Color	Black
Specimen size	885mm×270mm

II. Test details

Conditioning of specimens:	Prior to testing, the sample was conditioned to constant mass at a temperature of 23 ± 2 °C, and a relative humidity of 50 ± 10 %, and maintained in this condition until required for testing.
Exposed Face:	One surface

Irradiance along horizontal reference line on the calibration board

Distance along reference line from inside edge of specimen holder mm	Irradiance kW/m ²		
	Specified	Min.	Max.
75	32.5	32.0	33.0
225	21.0	20.5	21.5
375	14.5	14.0	15.0
525	10.0	9.5	10.5
675	7.0	6.5	7.5
825	5.0	4.5	5.5

To be continued....



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III. Test results

SPECIMEN No.	1	2	3	4	5	6
Distance (mm)	Time to travel to indicated distance (minutes :seconds)					
75	--	--	--	--	--	--
165	--	--	--	--	--	--
190	--	--	--	--	--	--
215	--	--	--	--	--	--
240	--	--	--	--	--	--
265	--	--	--	--	--	--
290	--	--	--	--	--	--
375	--	--	--	--	--	--
455	--	--	--	--	--	--
500	--	--	--	--	--	--
520	--	--	--	--	--	--
600	--	--	--	--	--	--
675	--	--	--	--	--	--
710	--	--	--	--	--	--
750	--	--	--	--	--	--
785	--	--	--	--	--	--
825	--	--	--	--	--	--
Maximum distance traveled at 1.5 minutes (mm)	<50	<50	<50	<50	<50	<50
Maximum distance traveled during the whole test (mm)	<50	<50	<50	<50	<50	<50
Time to reach maximum distance traveled	1min	1min	1min	1min	1min	1min

Note: 1. "--" Not reached the reference line

2. Six specimens are usually tested. If the test on any specimen is deemed to be invalid, as defined in the standard, it is permissible for up to a maximum of nine specimens to be tested in order to obtain the six valid test results.

The classification limits specified in BS 476 Part 7:1997+Amd.No.C1:2014 are given in Appendix 1.

Observations during test:

Some softening may affect the spread of flame performance of the test specimen.

To be continued....



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Criteria for classification:

If the prefix “D” or suffix “R” or “Y” is included in the classification, this indicates that the results should be treated with caution. An explanation of the reason for prefix and suffixes is given in Appendix 2

Appendix 1 Classification of spread of flame

Classification	Spread of flame at 1.5 min		Final spread of flame	
	Limit (mm)	Limit for one specimen in sample(mm)	Limit (mm)	Limit for one specimen in sample(mm)
Class 1	165	165+25	165	165+25
Class 2	215	215+25	455	455+25
Class 3	265	265+25	710	710+25
Class 4	Exceeding the limits for class 3			

Appendix 2 Explanation of prefix and suffixes which may be added to the classification

1. A suffix R is added to the classification if more than six specimens are required in order to obtain six valid test results (e.g. class 2R).
2. A prefix D is added to the classification of any product which does not conform to the surface characteristics specified in the standard and has therefore been tested in a modified form (e.g. class D3).
3. A suffix Y shall be added to the classification if any softening and/or other behaviour that may affect the flame spread occurs.

Classification: In accordance with the class definitions given in BS 476 Part 7:1997+Amd.No.C1:2014, the tested sample is classified as **Class 1Y**.

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.

To be continued....



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Photo Appendix:



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End of Report

