



Test Report

No. AJHL1702001614FT

Date: MAR.06, 2017

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ZHEJIANG ANJI SHENGAN SPONGE CO., LTD.

XIAOFENG BAMBOO INDUSTRIAL ZONE, ANJI COUNTY, ZHEJIANG PROVINCE

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

Sample Description: FOAM

Test Requested:

The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I. No. 1324 (amended 1989, 1993 and 2010), Schedule 1, Part I, Ignitability test for foam in slab or cushion form.

As specified in above standard(s) and incorporated with using ignition source 5 of BS 5852: Part 2:1982.

Test Results: -- See attached sheet --

Conclusion: The tested sample **Meets** the Requirements of Schedule 1 Part I in Statutory Instrument 1988 No. 1324 (Amended 1989, 1993 and 2010) the Furniture and Furnishings (Fire) (Safety) Regulations.

Test Period:

Sample Receiving Date : FEB.27, 2017

Test Performing Date : FEB.27, 2017 TO MAR.03, 2017

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

Allen Zou
Technical Manager



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SGS-CSTC Inspection & Testing Services Co., Ltd.
Anji Branch Harbin

No. 301, Sunlight Road, 2 Block, Sunlight Industry Zone, Anji County, Zhejiang Province, China 3113300 t (86-572) 5018825 f (86-572) 5018829 www.sgs.com
中国·浙江·安吉县阳光工业园二区阳光大道301号 邮编: 3113300 t (86-572) 5018825 f (86-572) 5018829 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Conducted

The Furniture and Furnishings (Fire) (Safety) Regulations 1988 S.I. No. 1324 (amended 1989,1993 and 2010), Schedule 1, Part I, Ignitability test for foam in slab or cushion form.

Crib 5 Test (Ignition Source 5)

Conditioning

Prior to testing: The sample was conditioned at least 72 h in indoor ambient conditions and 16 h in an atmosphere having a temperature of 20±5°C and a relative humidity of 50±20%.

At time of testing: Temperature between 15°C ~ 30°C and Relative humidity between 20% ~ 70%.

Test results

The following test results relate only to the ignitability of the combination of materials under the particular condition of test. They are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

(A) Progressive smouldering

Criteria of failure (Clause 4.1 of BS 5852 part 2:1982)	1 st	2 nd
4.1 b) – Any composite that product externally detectable amounts of smoke, heat or glow 60 min after ignition of the crib.	NO	NO
4.1 c) – Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and requires forcible extinction.	NO	NO
4.1 d) – Any composite that smoulders until it is essentially consumed within the test duration relevant to the source	NO	NO
4.1 e) – Any composite that smoulders to the extremities of the specimen viz. upper or lower margins, either side or to its full thickness, within the duration of the test.	NO	NO
4.1 f) – Any composite that, on the final examination, shows evidence of charring other than discolouration, more than 100 mm in any direction apart from upwards from the nearest part of the original position of the source.	NO	NO

(B) Flaming

Criteria of failure (Clause 4.2 of BS 5852 part 2:1982)	1 st	2 nd
4.2 b) – Any composite that continues to flame for more than 10 minutes after the ignition of the crib.	NO	NO
4.2 d) – Any composite that displays escalating combustion behaviour so that it is unsafe to continue the test and forcible extinction is required.	NO	NO
4.2 e) – Any composite that burns until it is essentially consumed within the test duration relevant to the source.	NO	NO
4.2 f) – Any composite on which any flame front reaches the lower margin, either side or passes through the full thickness of the specimen within the duration of the test.	YES	YES

To be continued....



(C) Mass Loss

Criteria (Clause 5 in Schedule 1 of UK Regulations)	1 st	2 nd
If failure against the criteria of clause 4 of BS 5852:Part 2 has occurred but only by way of damage exceeding the limits defined in clause 4.1(e), 4.1(f) and 4.2(f) and provided that the resultant mass loss is less than 60g the foam passes the ignitability test.	35g	38g

Test Details:

Specimen No.	1 st	2 nd
Progressive smouldering (PS) or Flaming (F)	NO	NO
Duration of	Ignition source (min, sec)	2min20s
	Flames (min, sec)	3min58s
	Smoke (min, sec)	5min26s
Extent of damage of horizontal component	Foam - Width (mm)	175
	Foam - Length (mm)	136
	Foam - Depth (mm)	Through
Extent of damage of vertical component	Foam - Width (mm)	134
	Foam - Depth (mm)	61
Damage exceeds limits of clauses 4.1(e), 4.1(f) or 4.2(f)	YES, 4.2(f)	YES, 4.2(f)
Initial weight before test (g)	5844	5840
Final weight after test (g)	5809	5802
Resultant mass loss (g)	35	38
Reason for failure (Ref to failure code)	---	---
Final examination of progressive smouldering (9.4)	NO	NO
Comments & observations	---	---
Overall result	PASS	PASS

To be continued....



SGS-CSTC
Anji Branch Harbin

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Photo Appendix:

Details of sample:

Color: Grey

This foam sample of approximate density of 28.0 kg/m³.



SGS authenticate the photo on original report only

*** End of Report ***



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Anji Branch Harbin

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