

**Test Report**

No. AJHL1603002040FB

Date: MAR.18, 2016

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**ZHEJIANG FURUIDA FOAM CO., LTD.**

TANGPU INDUSTRIAL ZONE, ANJI COUNTY, ZHEJIANG

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 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 : MAR.11, 2016

Test Performing Date : MAR.11, 2016 TO MAR.17, 2016

Signed for and on behalf of  
SGS-CSTC Co., Ltd. Anji BranchAllen Zou  
Technical Manager

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**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 hours 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 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 <sup>st</sup>	2 <sup>nd</sup>
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 <sup>st</sup>	2 <sup>nd</sup>
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.	NO	NO

To be continued....



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Anji Branch

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**(C) Mass Loss**

Criteria (Clause 5 in Schedule 1 of UK Regulations)	1 <sup>st</sup>	2 <sup>nd</sup>
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.	37g	34g

**Test Details:**

Specimen No.		1 <sup>st</sup>	2 <sup>nd</sup>
Ignition (I) / Did not ignite (DNI) / Ignite but extinguished (IBE) / Surface flash burn (SFB)		IBE	IBE
Progressive smouldering (PS) or Flaming (F)		NO	NO
Duration of	Ignition source (min, sec)	3min12s	3min18s
	Flames (min, sec)	3min37s	3min22s
	Smoke (min, sec)	4min11s	4min06s
Extent of damage of horizontal component	Foam - Width (mm)	188	182
	Foam - Length (mm)	119	115
	Foam - Depth (mm)	70	72
Extent of damage of vertical component	Foam - Width (mm)	173	170
	Foam - Depth (mm)	71	72
Damage exceeds limits of clauses 4.1(e), 4.1(f) or 4.2(f)		NO	NO
Initial weight before test (g)		7537	7496
Final weight after test (g)		7500	7462
Resultant mass loss (g)		37	34
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....



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### Photo Appendix:

Details of sample:

Color: Grey

This foam sample of approximate density of 26.7kg/m<sup>3</sup>.



SGS authenticate the photo on original report only

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



SGS-CTI Standards Technical Services Co., Ltd.  
Anji Branch Hangzhou Standards and Quality Laboratory

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