

TEST REPORT

No.: AJFTS25002076R01_EN

Date: Apr 21,2025

Page 1 of 4

ZHEJIANG FURUIDA FOAM CO. LTD
TANGPU INDUSTRIAL ZONE ANJI ZHEJIANG

Sample Description : FOAM
Color : BLUE
Style/Item No. : /

The above sample(s) data and information 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.

Sample Receiving Date : Apr 11,2025
Testing Period : Apr 11,2025 to Apr 21,2025
Test Required : 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 result(s) : 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.

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

Echo Li
Approved signatory



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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) of BS 5852 Part 2:1982.

Conditioning

The cribs and specimens were conditioned for 72 h in indoor ambient conditions and then immediately before the test for at least 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 Result

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 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. | No | No |



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(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. | 24 g | 27 g |

Detailed Results

| Test No. | 1 st | 2 nd | |
|---|--------------------------|-----------------|------------|
| Progressive smouldering (PS) or Flaming (F) | No | No | |
| Duration of | Ignition source (min, s) | 2 min 18 s | 2 min 25 s |
| | Flames (min, s) | 2 min 43 s | 2 min 58 s |
| | Smoke (min, s) | 3 min 40 s | 3 min 55 s |
| Extent of damage of horizontal component | Foam - Width (mm) | 130 | 135 |
| | Foam - Length (mm) | 144 | 151 |
| | Foam - Depth (mm) | 65 | 68 |
| Extent of damage of vertical component | Foam - Width (mm) | 100 | 108 |
| | Foam - Depth (mm) | 35 | 41 |
| Damage exceeds limits of clauses 4.1(e), 4.1(f) or 4.2(f) | No | No | |
| Initial weight before test (g) | 5856 | 5867 | |
| Final weight after test (g) | 5832 | 5840 | |
| Resultant mass loss (g) | 24 | 27 | |
| Reason for failure (Ref to failure code) | --- | --- | |
| Final examination of progressive smouldering (9.4) | No | No | |
| Comments & observations | No | No | |
| Result | Pass | Pass | |

Statement: The decision rules for statements of conformity (Pass/Fail) have been applied to any results that results in a numerical value and are based on the probability conformance of 95% (UKAS LAB 48) agreed with the customer at the contract review stage.



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Photo Appendix:

Details of sample:

Color: Blue

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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