



Confidential Report

Our Ref: 23/61565G1/11/23





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Date: 23 November 2023

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Client: Zimmer + Rohde GmbH

Zimmersmuhlenweg 14-18
61440 Oberursel
Frankfurt
Germany

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 13 November 2023

Date Test Started: 22 November 2023

Description of Sample: One sample of fabric, which was referenced by the client as;
21296 100%WV

Work Requested: We were asked to make the following fire test:
BS EN 1021:Part 1:2014 – Ignitability of Upholstered Furniture

- * subcontracted test, UKAS accredited
- ** subcontracted test, EN ISO/IEC 17025 accredited
- *** not UKAS accredited

Note: This report relates only to the items tested.



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FIRE TESTS ACCORDING TO BS EN 1021-1:2014

Assessment of the ignitability of upholstered furniture. Part 1. Ignition Source 1: Smouldering cigarette.

Pre-Treatment

The material received no pre-treatment as the fabric is stated not to be FR treated.

Conditioning

The materials for testing to Source 0 and 1 were conditioned for a minimum of 24 hours and tested in the environments specified in Clause 7 of BS EN 1021-1 & 2:2014.

The sample was tested in a room of volume 25m³ and 18°C.

Procedure

The test was carried out in accordance with BS EN 1021-2:2014. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

The sample was tested over non-fire retardant polyurethane foam with a density of approximately 20-22 kg/m³.

Tests were made using ignition source 1.

Requirements

The specimens shall not:-

Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulders until it is essentially consumed within the test duration.
- c) smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) smoulder for more than one hour.
- e) show evidence of charring, other than discolouration, for more than 100mm in any direction apart from the nearest part of the original position of the source.



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Requirements (Continued)

Flaming Criteria

- a) show evidence of flaming initiated by a smouldering source.

Results

| Smouldering criteria | Specimen No. | | |
|---|--------------|----|----------------|
| | 1 | 2 | 3 ¹ |
| Unsafe escalating combustion | No | No | --- |
| Testing assembly consumed | No | No | --- |
| Smoulders to extremities/full thickness | No | No | --- |
| Smoulders more than 1 hour | No | No | --- |
| In final examination, presence of progressive smouldering | No | No | --- |

| Flaming criteria | 1 | 2 | 3 ¹ |
|--|-----------|-----------|----------------|
| Occurrence of flames | No | No | --- |
| Specimen Result Ignition (I) / Non Ignition (NI) | NI | NI | --- |

Note

The test results relate only to the ignitability of the combination of materials under the particular conditions of test; they are not intended as a means of assessing the full potential fire hazard of the materials in use.





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Comment

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-1.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

Uncertainty Budget

The overall uncertainty budget for BS EN 1021: Part 1:2014 is as follows:-

Timings: ± 2 seconds.
Measurements: ± 2 mm.

Reported by:  R Greasley, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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