



Confidential Report

Our Ref: 23/59709B1/05/22





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Date: 18 May 2022

Our Ref: 23/59709B1/05/22

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Client: Zimmer + Rohde GmbH

Zimmersmühlenweg 14-16
61440 Oberursel
Germany

Job Title: Fire Test on One Fabric Sample

Clients Order Ref: --

Date of Receipt: 10 May 2022

Date Test Started: 18 May 2022

Description of Sample: One sample of fabric, which was referenced by the client as;
Article No: 15495, stated to be Base: 100% CO, Pile: 100%CV.

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 samples submitted and as described in the report.



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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 19°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.


An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. Under our Policy we have used a non-binary decision rule.

See our Decision rules Policy (<http://www.bttg.co.uk/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.

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



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