



# Confidential Report

**Our Ref: 23/60452B2/12/22**





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Date: 14 December 2022

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**Client:** Zimmer + Rohde GmbH

Zimmersmuhlenweg 14-18  
61440 Oberusel  
Frankfurt  
Germany

**Job Title:** Fire Test on One Fabric Sample

**Clients Order Ref:** ++

**Date of Receipt:** 6 December 2022

**Date Test Started:** 13 December 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
10961, stated to be 35%PAN 20%CO 18%CV 17%PES 10%PA

**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 25m<sup>3</sup> and 16°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/m<sup>3</sup>.

Tests were made using ignition source 1.

### **Requirements**

The specimens shall not:-

#### Smouldering Criteria

- display escalating combustion requiring active extinction.
- smoulders until it is essentially consumed within the test duration.
- smoulder to the extremities of the specimen, or through the full thickness, within the duration of the test.
- smoulder for more than one hour.
- 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 <sup>1</sup>
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 <sup>1</sup>
	Occurrence of flames	No	No
<b>Specimen Result</b> Ignition (I) / Non Ignition (NI)	<b>NI</b>	<b>NI</b>	---

**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.

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.

