



# Confidential Report

**Our Ref: 23/59464D/03/22**





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Date: 23 March 2022

Our Ref: 23/59464D/03/22  
Your Ref: ---

Page: 1 of 7

**Client:** Zimmer + Rohde GmbH

Zimmersmuhlenweg 14-18  
61440 Oberursel  
Germany

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

**Clients Order Ref:** --

**Date of Receipt:** 11 March 2022

**Date Test Started:** 23 March 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
Pepe FR, Art. Nr: 10687, Use: Upholstery

**Work Requested:** We were asked to test the received sample to the following standard:  
BS EN 1021:Parts 1 & 2:2014 – Ignitability of Upholstered Furniture

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



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Note: This report relates only to the samples submitted and as described in the report.

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Date: 23 March 2022

Our Ref: 23/59464D/03/22  
Your Ref: ---

Page: 2 of 7

Client: Zimmer + Rohde GmbH

## FIRE TEST ACCORDING TO BS EN 1021-1:2014

### Assessment of the ignitability of upholstered furniture. Part I. Ignition Source 0: Smouldering cigarette

#### Pre-Treatment

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

#### Conditioning

The sample was conditioned for at least 16 hours at a temperature of  $23\pm 2^{\circ}\text{C}$  and relative humidity of  $50\pm 5\%$ .

The sample was tested in a room of volume  $20\text{m}^3$  and  $18^{\circ}\text{C}$ .

#### Procedure

The test was carried out in accordance with BS EN 1021-1:2014. 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 combustion modified polyurethane foam with a density of approximately  $35\text{-}36\text{kg/m}^3$ .

Tests were made using ignition source 0.

#### Requirements

The specimens shall not:-

#### Smouldering Criteria

- a) display escalating combustion requiring active extinction.
- b) smoulder or burn until it is essentially consumed within the test duration.
- c) smoulder or burn 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) on final examination, show evidence of progressive smouldering.



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Our Ref: 23/59464D/03/22  
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Page: 3 of 7

**Client:** Zimmer + Rohde GmbH

**Requirements (continued)**

Flaming Criteria

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

**Results**

	<b>Specimen No.</b>		
<b>Smouldering criteria</b>	<b>1</b>	<b>2</b>	<b>3<sup>1</sup></b>
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	---

<b>Flaming criteria</b>	<b>1</b>	<b>2</b>	<b>3<sup>1</sup></b>
Occurrence of flames	No	No	---
<b>Specimen Result</b> Ignition (I) / Non Ignition (NI)	<b>NI</b>	<b>NI</b>	---

Any “Yes” in smouldering or flaming criteria means Ignition

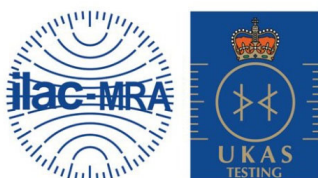
**Cigarette Test Result**      **PASS**

**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.

**Comments**

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





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Our Ref: 23/59464D/03/22  
Your Ref: ---

Page: 4 of 7

Client: Zimmer + Rohde GmbH

## FIRE TESTS ACCORDING TO BS EN 1021-2:2014

### Assessment of the ignitability of upholstered furniture. Part 2. Ignition Source 1: Match flame equivalent.

#### Pre-Treatment

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

#### Conditioning

The sample was conditioned for at least 16 hours at a temperature of  $23\pm 2^{\circ}\text{C}$  and relative humidity of  $50\pm 5\%$ .

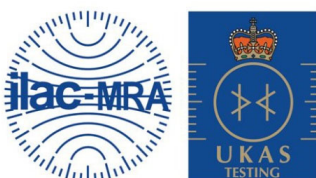
The sample was tested in a room of volume  $20\text{m}^3$  and  $18^{\circ}\text{C}$ .

#### 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 combustion modified polyurethane foam with a density of approximately  $35\text{-}36\text{kg/m}^3$ .

Tests were made using ignition source 1.



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Our Ref: 23/59464D/03/22  
Your Ref: ---

Page: 5 of 7

**Client:** Zimmer + Rohde GmbH

## 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.

### Flaming Criteria

- a) display escalating combustion requiring active extinction.
- b) burns until it is essentially consumed within the test duration.
- c) burns to the extremities of the specimen, or through the full thickness, within the duration of the test.
- d) exhibit any flaming for more than 120 seconds after removal of the burner tube.



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Our Ref: 23/59464D/03/22  
Your Ref: ---

Page: 6 of 7

Client: **Zimmer + Rohde GmbH**

## 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>
	Unsafe escalating combustion	No	No
Testing assembly consumed	No	No	---
Flames to extremities/full thickness	No	No	---
Flames longer than 120 seconds	No	No	---
<b>Specimen Result</b> Ignition (I) / Non Ignition (NI)	<b>NI</b>	<b>NI</b>	---

Any "Yes" in smouldering or flaming criteria means Ignition

**Match Test Result**      **PASS**

## 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.

## Comment

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.



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Our Ref: 23/59464D/03/22

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Page: 7 of 7

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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.

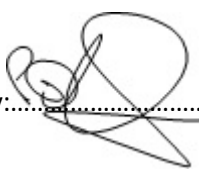
See our Decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

## Uncertainty Budget

The overall uncertainty budget for both BS EN 1021: Part 1 and 2:2014 is as follows:-

Timings:  $\pm 2$  seconds.

Reported by:   
B Bland  
Technical Customer Service Officer

Countersigned By:   
P Doherty  
Manager

Enquiries concerning this report should be addressed to Customer Services.

