



# Confidential Report

**Our Ref: 23/64540A/02/26**





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
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Date: 03 March 2026

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**Client:**

**Kvadrat A/S**

Lundbergsvej 10  
8400 Ebeltoft  
Denmark

**Job Title:**

Fire Test on One Material Sample

**Clients Order Ref:**

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**Date of Receipt:**

20 February 2026

**Date Test Started:**

03 March 2026

**Description of Sample:**

One sample of material, which was referenced by the client as;  
Haku, 41% polyurethane, 4% silicone, 55% polyester

**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

This report relates only to the items tested.

All tests were carried out in the laboratories in Leeds, unless otherwise indicated.

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Client: **Kvadrat A/S**

## **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 to not have an FR treatment.

#### **Conditioning**

The materials for testing to Sources 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 18°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 34-36 kg/m<sup>3</sup>.

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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## 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><br>Ignition (I) / Non Ignition (NI) | <b>NI</b>            | <b>NI</b> | ---            |

Any "Yes" in smouldering or flaming criteria means Ignition

### 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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Client: **Kvadrat A/S**

## **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 to not have an FR treatment.

#### **Conditioning**

The sample was conditioned for at least 24 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  $25\text{m}^3$  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  $34\text{-}36\text{ kg/m}^3$ .

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) 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.

## Results

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

| Flaming criteria   | 1                            | 2         | 3         |
|--|------------------------------|-----------|-----------|
|  | Unsafe escalating combustion | No        | No        |
| Testing assembly consumed                                  | No                           | No        | No        |
| Flames to extremities/full thickness                       | No                           | No        | No        |
| Flames longer than 120 seconds                             | No                           | No        | No        |
| <b>Specimen Result</b><br>Ignition (I) / Non Ignition (NI) | <b>NI</b>                    | <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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## Comments

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

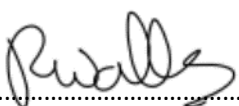
Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

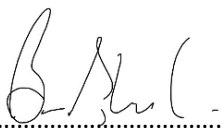
See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

## Uncertainty Budget

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

Timings:  $\pm 2$  seconds.  
Measurements:  $\pm 2$ mm.

Reported by:  R Walls, Laboratory Technician

Countersigned by:  B Bland, Technical Customer Service Officer

Enquiries concerning this report should be addressed to Customer Services.



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