



# Confidential Report

Our Ref: 23/62448D/09/24





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
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Date: 04 October 2024

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**Client:**

**Kvadrat A/S**

Lundbergsvej 10  
8400 Ebeltoft  
Denmark

**Job Title:**

Fire Test on One Fabric Sample

**Clients Order Ref:**

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**Date of Receipt:**

25 September 2024

**Date Test Started:**

04 October 2024

**Description of Sample:**

One sample of fabric, which was referenced by the client as;  
Kuri, 54% polyurethane, 6% silicone, 28% polyester, 12% viscose

**Work Requested:**

We were asked to make the following fire test:  
BS 5852: Clause 11:2006 (2011)

- \* 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 items tested.

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## Testing BS 5852: Clause 11: 2006 (2011) Assessment of the ignitability of upholstered seating by Smouldering and Flaming sources – Source 5 (Crib 5)

### Pre-Treatment

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

### Conditioning

The sample was conditioned in the environments specified in Clause 10 of BS 5852: 2006 (2011).

### Testing

The material was tested according to BS 5852:2006 (2011) Methods of test for the ignitability of upholstered composites for seating by flaming sources using Source 5 (Crib 5).

The sample was tested at 18°C and 55% relative humidity (R.H.).

The sample was tested over combustion modified polyurethane foam with a density of approximately 34-36kg/m<sup>3</sup>.



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## Results

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

|   | Specimen 1          | Specimen 2          |
|---|---------------------|---------------------|
| Time of Ignition (mins/secs)                      | 0.10                | 0.12                |
| Time of Flame Extinction (mins/secs)              | 4.09                | 4.49                |
| Time of Smoke Extinction (mins/secs)              | 7.21                | 9.53                |
| Time of cover split (mins/secs)                   | DNO                 | DNO                 |
| <b>Extent of damage (mm) - Seat</b>               |                     |                     |
| Width   | 117                 | 114                 |
| Length  | 75                  | 84                  |
| Depth   | 48                  | 44                  |
| <b>Extent of damage (mm) - Back</b>               |                     |                     |
| Width   | 104                 | 116                 |
| Depth   | 40                  | 37                  |
| Melting   | No                  | No                  |
| Dripping  | No                  | No                  |
| Charring  | Yes                 | Yes                 |
| Comments and Observations                         | DNO                 | DNO                 |
| <b>Specimen Result (Ignition or Non-ignition)</b> | <b>Non-Ignition</b> | <b>Non-Ignition</b> |

## Acronyms

ME – Manually extinguished  
 DNO – Did not observe time of events

EC – Escalating combustion  
 BTT – Burnt through thickness of foam

DNS – Material did not split  
 BTE – Burnt to extremities



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## Comment

The results indicate 'Non-Ignition' of the materials and the test is designated NI/5 (ie. Pass).

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.

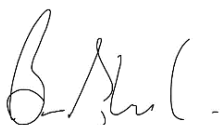
See our decision rules Policy (<https://www.bttg.co.uk/about-us/decision-rules-policy/>) for further information.

## Uncertainty Budget

Measurements:  $\pm 2$  mm

Timings:  $\pm 2$  seconds

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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