



## Confidential Report

**Our Ref: 23/59955A2/07/22**





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.  
Telephone: +44 (0) 113 259 1999  
Email: [onestopshop@bttg.co.uk](mailto:onestopshop@bttg.co.uk)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 July 2022

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**Client:** Kobefab International B.V.

De Vest 62  
5555 XP Valkenswaard  
Netherlands

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

**Clients Order Ref:** --

**Date of Receipt:** 12 July 2022

**Date Test Started:** 20 July 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;

Project Number: 2220. Kobe Name: Axiom FR. Stated to be 63% Pan-18% RPet-16% Rolefin-3% Pes

**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

Note: This report relates only to the items tested.



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**Client:** Kobefab International B.V.

## **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 was water soaked and dried in accordance with BS EN 1021:Annex D (2020).

#### **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 25°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 non-fire retardant polyurethane foam with a density of approximately 20-22kg/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

|                                                           | Specimen No. |    |                |
|-----------------------------------------------------------|--------------|----|----------------|
| Smouldering criteria                                      | 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

**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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## 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 was water soaked and dried in accordance with BS EN 1021:Annex D (2020).

#### 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  $25^{\circ}\text{C}$ .

#### 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 non-fire retardant polyurethane foam with a density of approximately  $20\text{--}22\text{kg/m}^3$ .

Tests were made using ignition source 1.



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## 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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## Results

|                                                           | Specimen No. |    |                |
|-----------------------------------------------------------|--------------|----|----------------|
| Smouldering criteria                                      | 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><br>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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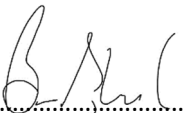
Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. Under our Policy we have used a non-binary decision rule.

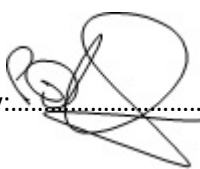
See our decision rules Policy (<http://www.bttg.co.uk/decision-rules-policy>) for further information.

## 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.



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