

## FLAMMABILITY TEST REPORT

Report No.: LEI21050139A

Date Received: 04/05/21

Date Tested: 10/05/21

Date Issued: 10/05/21

**Company Name & Address:** VITAFOAM HUNGARY LTD.  
H-7030 PAKS, HRSZ 8806/2  
7030

**Contact Name:** MARIANN LACZA

### Sample Details

Order No.: 1  
Description: CH2520  
Ref. / Style No.: Not stated  
Colour: Yellow  
Quality: Combustion modified high resilience polyurethane foam made with polyol, TDI and flame retardants (raw or coloured) Density: 25kg/m<sup>3</sup> Hardness: 80N  
Supplier: Not stated  
Batch No.: P090 (production date: 2021.04.27.)  
Intended Use: Not stated  
Number of Samples: 4 pieces (sample cutting date: 2021.04.29)  
Quoted Fibre Composition: Not stated  
Retailer: Not stated  
Specification No.: Not stated  
Sample Description: Polyurethane foam blocks

| Test Method  | Pre Treatment | Flammability Performance Requirements  | Result          |
|--|---------------|--|-----------------|
| BS 5852: Part 2: 1982, Ignition source 5 (Crib 5) as modified by Schedule 1 Part 1 of the Furniture & Furnishings (Fire) (Safety) Regulations 1988 (As Amended). | None          | As Schedule 1 Part 1 (Ignition test for polyurethane foam in slab or cushion form) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). | <b>Complies</b> |



.....  
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(Technical & Operational  
Excellence Manager)

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**ANDREW HALLETT**  
(Flammability Team Leader)

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**CAROLE SPOWART**  
(Flammability  
Administrator)

.....  
**GREGORY JAMES**  
(Flammability Technician)

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### Filling Specification

Filling Type: Polyurethane Foam  
Density / Hardness: 25kg/m<sup>3</sup>/ 80N  
Cover Fabric: Standard test fabric as detailed in Schedule 1 Part 1 of The Furniture (Fire) (Safety) Regulations 1988 (as amended).

### Uncertainty of Measurement

The uncertainty of measurement has been estimated to be 5.99%

### Conditioning

Prior to Testing: At least 72 hours in ambient indoor conditions, then at least 16 hours in an atmosphere having a temperature of 20±5°C and a relative humidity of 50±20%  
At Time of Testing: Temperature between 15°C & 30°C. Relative humidity between 20% & 70%

### Test Results

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

| Pass / Fail Criteria   | Initial test  |     | Repeat test   |     |
|--|---|-----|---|-----|
| <b>Progressive smouldering failure</b>   |   |     |   |     |
| Externally detectable amounts of smoke, heat or glowing 60 min after crib ignition                     | No  |     | No  |     |
| Escalating smouldering behaviour rendered the test unsafe to continue and required forcible extinction | No  |     | No  |     |
| Smouldering essentially consumed the test specimen within the duration of the test                     | No  |     | No  |     |
| <b>Flaming failure</b>   |   |     |   |     |
| The test specimen continued to flame for more than 10 minutes after the ignition of the crib           | No  |     | No  |     |
| Escalating combustion behaviour rendered the test unsafe to continue and required forcible extinction  | No  |     | No  |     |
| Flaming essentially consumed the test specimen within the duration of the test                         | No  |     | No  |     |
| <b>Final examination</b>   |   |     |   |     |
| Progressive smouldering was observed when the sample was dismantled                                    | No  |     | No  |     |
| <b>Comments</b>  |   |     |   |     |
| Time to extinction of flames after crib ignition   | 3 Minutes 03 Seconds  |     | 2 Minutes 56 Seconds  |     |
| Time to extinction of glowing after crib ignition  | Due to the position of the crib within the test specimen it was not possible to see when glowing ceased |     | Due to the position of the crib within the test specimen it was not possible to see when glowing ceased |     |
| Time to extinction of smoke after crib ignition  | Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased         |     | Due to the amount of smoke in the test enclosure it was not possible to see when smoking ceased         |     |
| Maximum extent of damage to back (mm) Length / Width   | 400   | 95  | 400   | 135 |
| Maximum extent of damage to base (mm) Length / Width   | 133   | 148 | 110   | 160 |
| The resultant mass loss exceeded 60g   | No (25g)  |     | No (31g)  |     |
| <b>Test Result</b>   | <b>PASS</b>   |     | <b>PASS</b>   |     |

### Conclusions

The sample tested meets the requirements of Schedule 1 Part 1 (Ignition test for polyurethane foam in slab or cushion form) of The Furniture and Furnishings (fire) (safety) Regulations 1988 (as amended). **PASS.**

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The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor of  $k = 2$ , providing a level of confidence of approximately 95 %. Unless otherwise specified all compliance and pass/fail statements are binary simple acceptance based on the tolerance interval and, with the exception of graded methods, a test uncertainty ratio greater (TUR) than 4:1. For graded methods the TUR will drop to as low as 0.5:1 when the tolerance limits are within a grade division of the upper scale limit. The Uncertainty budgets are stated for each Test method, these are for reference, and should be considered when results are on or close to Specification Limits / Requirements and in such cases it should be noted that the risk of false acceptance or rejection may be as high as 50%, for further information please refer to ILAC G8.