

FLAMMABILITY TEST REPORT

Report No.: LEI21110195A

Date Received: 29/10/21

Date Tested: 04/11/21

Date Issued: 05/11/21

Company Name & Address: VITAFOAM ROMANIA SRL
STR. 1 MAI, NR. 34
LUDUS
JUD, MURES
ROMANIA
CODE: 545200

Contact Name: GEORGE BARBAT

Sample Details

Reference No.: 01.21.10.21VFR
Order No.: 01/21.10.2021
Style No.: Combustion modified polyurethane foam, raw or colored, made from: polyol, TDI and flame retardants, density 35kg/m³, hardness 150N
Batch No.: A286, produced 20 Oct 2021 in short blocks, randomly taken in 21 Oct 2021 in Ludus conversion from short block nr.9
Quality: CM3538
Colour: White
Supplier: Vitafoam ROMANIA SRL
Intended Use: Not stated
Quoted Fibre Composition: Not stated
Retailer: Not stated
Buying Division: Not stated
Sample Description: White coloured polyurethane foam

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).	Complies



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STEVEN OWEN
(Technical & Operational
Excellence Manager)

.....
ANDREW HALLETT
(Flammability Team Leader)

.....
CAROLE SPOWART
(Flammability
Administrator)

.....
GREGORY JAMES
(Flammability Technician)

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Filling Specification

Filling Type: Polyurethane Foam
Density / Hardness: 35kg/m³/ 150N
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	
Progressive smouldering failure				
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	
Flaming failure				
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	
Final examination				
Progressive smouldering was observed when the sample was dismantled	No		No	
Comments				
Time to extinction of flames after crib ignition	4 Minutes 03 Seconds		4 Minutes 39 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	100	400	90
Maximum extent of damage to base (mm) Length / Width	110	146	105	129
The resultant mass loss exceeded 60g	No (26g)		No (24g)	
Test Result	PASS		PASS	

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.