
# Confidential Report

## Our Ref: 23/58122-10-2

ilac-MRA

UKAS TESTING

1066

Notified Body
for PPE Directive,
Construction Products Regulation
& Marine Equipment Directive
I.D. No. 0338 & 0339

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Website: www.bttg.co.uk

Date: 20 January 2021

Our Ref: 23/58122-10-2
Your Ref: 0011512406



Client: Gabriel A/S
Hjulmagervej 55
DK-9000 Aalborg
Denmark

Job Title: Fire Test on One Sample of Fabric

Client's Order No: 0011512406

Date of Receipt: 4 January 2021

Description of Sample(s): One sample identified as follows was received for testing:

Go Check 61138 / Beige

Work Requested: We were asked to make the following test(s):

BS 7176: 2007

* subcontracted test, UKAS accredited
** subcontracted test, EN ISO/IEC 17025 accredited
*** not UKAS accredited

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**Client: Gabriel A/S**

**Specification BS 7176: 2007 + A1:2011 Resistance to Ignition of Upholstered Furniture for non-domestic seating by testing composites using BS EN 1021:2006 Furniture – Assessment of the ignitability of upholstered furniture Parts 1 and 2 and BS 5852:Clause 11:2006**

**Pre-Treatment**

The samples received no pretreatment as the fabric is stated to be inherently flame retardant.

**Conditioning**

The materials for testing to Source 0 and 1 were conditioned and tested in the environments specified in Clause 7 of BS EN 1021:2006.

**Foam Used**

The sample was tested over combustion modified polyurethane foam with a density of approximately 35kg/m$^3$.

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**Testing to BS EN 1021-1:2006 – Source 0 – Cigarette**

The sample was tested in accordance with BS EN ISO 1021-1:2006. The sample was tested over combustion modified polyurethane foam with a density of approximately 35kg/$m^3$.

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

**Results**

| | Cigarette | | | Comments |
|---|---|---|---|---|
| | 1 | 2 | 3[1] | |
| **Smouldering Criteria (Yes/No)** | | | | |
| Unsafe escalating combustion | No | No | | |
| Test assembly consumed | No | No | | |
| Smoulders to extremities | No | No | | |
| Smoulders through thickness | No | No | | |
| Smoulders more than1 hour | No | No | | |
| In final examination, presence of progressive smouldering | No | No | | |
| **Ignitability Performance (Yes/No)** | | | | |
| Occurrence of flames | No | No | | |
| Ignition / Non Ignition ( I/NI ) | NI | NI | | |

Any “Yes” in smouldering or flaming criteria means Ignition

**Cigarette Test Result** **PASS**

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**BS EN 1021-2: 2006 – Source 1 – Butane Flame**

The sample was tested in accordance with BS EN ISO 1021-2:2006. The sample was tested over combustion modified polyurethane foam with a density of approximately 35kg/$m^3$.

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

| **Smouldering criteria** | **1** | **2** |
|---|---|---|
| Unsafe escalating combustion | No | No |
| Testing assembly consumed | No | No |
| Smoulders to extremities | No | No |
| Smoulders through thickness | No | No |
| Smoulders more than 1 hour | No | No |
| Char >100mm from source | No | No |

| **Flaming criteria** | 1 | 2 |
|---|---|---|
| Unsafe escalating combustion | No | No |
| Testing assembly consumed | No | No |
| Flames to extremities | No | No |
| Flames through thickness | No | No |
| Flames longer than 120 seconds | No | No |

| | | |
|---|---|---|
| **Specimen Result** (Ignition or Non-ignition) | **Non-Ignition** | **Non-Ignition** |

Any “Yes” in smouldering or flaming criteria means Ignition

**Match Test Result** **PASS**

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**BS 5852: 2006 Source 5 – Crib 5**
The sample was tested in accordance with BS 5852:2006.

The sample was tested over combustion modified polyurethane foam with a density of approximately 35kg/m$^3$.

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

**Results**
The test results are shown in the tables below:-

| | **Specimen 1** | **Specimen 2** |
|---|---|---|
| Time of Ignition (s) | 5 | 5 |
| Time of Flame Extinction (s) | 189 | 180 |
| Time of Smoke Extinction (s) | 262 | 265 |
| Time of cover split | 8 | 9 |
| **Extent of damage (mm) - Seat** | | |
| Width | 112 | 110 |
| Length | 136 | 159 |
| Depth | 48 | 50 |
| **Extent of damage (mm) - Back** | | |
| Width | 420 | 420 |
| Length | 110 | 134 |
| Depth | 38 | 58 |
| Melting | Yes | Yes |
| Dripping | No | No |
| Charring | Yes | Yes |
| Comments and Observations | - | - |
| **Specimen Result** (Ignition or Non-ignition) | **Non-Ignition** | **Non-Ignition** |

**Acronyms**

ME – Manually extinguished
DNS – Material did not split
BTT – Burnt through thickness of foam
EC – Escalating combustion
DNO – Did not observe time of event
DNI – Did not ignite

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**Comment**

The results indicate "Non-ignition" of the materials and the test is designated NI/5 i.e. Pass

**Conclusion**

The combination of materials meets BS 7176: 2007 for Medium Hazard.

This report relates only to the samples submitted and as described in the report.

Uncertainty of measurement has not been taken into account when presenting the test result. The relevant uncertainty value is included as an annex which forms an integral part of the report.

See BS 7176: 2007 + A1: 2011 Clause 6 for labelling and identification requirements. The test results relate only to the ignitability of the combination of upholstery composites under the particular conditions of test stated (BS EN 1021-1: 2006, BS EN 1021-2: 2006 and BS 5852: 2006 respectively); they are not intended as a means of assessing the full potential fire hazard of the materials or products in use.

Reported by:……..
Choose an item.
Laboratory Technician

Countersigned By:……..
P Doherty
Manager

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# Uncertainty Budget - Annex

The overall uncertainty budget for both BS 7176 : 2007 +A1 : 2011 is as follows:-

| | |
|---|---|
| Measurements: | ±2mm |
| Timings: | ±2 seconds. |