



# Confidential Report

**Our Ref: 23/59121A/11/21**





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

Date: 4 January 2022

Our Ref: 23/59121A/11/21  
Your Ref: ---

Page: 1 of 4

**Client:** **Gabriel A/S**

Hjulgagerve 55  
DK-900 Aalborg  
Denmark

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

**Clients Order Ref:** 0011572342

**Date of Receipt:** 24 November 2021

**Date Test Started:** 23 December 2021

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
Atlantic/60063 Cocon N.C., stated to be: 100% Polyester

**Work Requested:** We were asked to make the following fire test:  
BS EN 1021:Part 2:2014 – Ignitability of Upholstered Furniture

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



1066

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

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.  
BTTG™ and Shirley® are trade names of Shirley Technologies Ltd.  
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2021 Shirley Technologies Limited. All rights reserved.



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

Date: 4 January 2022

Our Ref: 23/59121A/11/21  
Your Ref: ---

Page: 2 of 4

**Client:** Gabriel A/S

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

#### **Conditioning**

The sample was conditioned for at least 16 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  $18^{\circ}\text{C}$ .

#### **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 combustion modified polyurethane foam with a density of approximately  $35\text{-}36\text{ kg/m}^3$ .

Tests were made using ignition source 1.

#### **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.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.  
BTTG™ and Shirley® are trade names of Shirley Technologies Ltd.  
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2021 Shirley Technologies Limited. All rights reserved.



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

Date: 4 January 2022

Our Ref: 23/59121A/11/21  
 Your Ref: ---

Page: 3 of 4

Client: Gabriel A/S

## Requirements (Continued)

### 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.

## Results

Smouldering criteria	Specimen No.		
	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>			
Ignition (I) / Non Ignition (NI)	NI	NI	---

## 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.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
 A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.  
 BTTG™ and Shirley® are trade names of Shirley Technologies Ltd.  
 The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
 Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2021 Shirley Technologies Limited. All rights reserved.



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

Date: 4 January 2022

Our Ref: 23/59121A/11/21

Your Ref: ---

Page: 4 of 4

Client: **Gabriel A/S**

## Comment

An NI designation indicates that the sample meets the performance requirements of BS EN 1021-2.


An estimation of uncertainty of measurement has been taken into account when making a judgment to any pass/fail criteria. 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 BS EN 1021: Part 2:2014 is as follows:-

Timings:  $\pm 2$  seconds.

Reported by:  B Bland, Technical Customer Services Officer

Countersigned by:  P Doherty, Manager

Enquiries concerning this report should be addressed to Customer Services.



1066

Shirley® Technologies Limited. Registered Office: Wira House, West Park Ring Road, Leeds, LS16 6QL.  
A company registered in England & Wales with company number 04669651. VAT Number GB 816764800.  
BTTG™ and Shirley® are trade names of Shirley Technologies Ltd.  
The supply of all goods and services is subject to our standard terms of business, copies of which are available on request.  
Our laboratories are accredited to EN ISO/IEC 17025.

Copyright © 2021 Shirley Technologies Limited. All rights reserved.