



# Confidential Report

**Our Ref: 23/59379A/02/22**





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: 22 February 2022

Our Ref: 23/59379A/02/22  
Your Ref: ---

Page: 1 of 5

**Client:** **Ludvig Svensson AB**

A: 511 82 Kinna  
Sweden

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

**Clients Order Ref:** --

**Date of Receipt:** 11 February 2022

**Date Test Started:** 22 February 2022

**Description of Sample:** One sample of fabric, which was referenced by the client as;  
Alter, stated to be 100% Trevira CS

**Work Requested:** We were asked to make the following fire test:  
IMO FTP Code 2010:Part 7

- \* 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 © 2022 Shirley Technologies Limited. All rights reserved.

Date: 22 February 2022

Our Ref: 23/59379A/02/22  
Your Ref: ---

Page: 2 of 5

Client: **Ludvig Svensson AB**

### Product Description

Company Name	AB Ludvig Svensson
Type of Material, i.e. Curtain, Drape, etc.	Curtain Fabric
Name and/or Identification of the Product Tested	Alter
Mass per Unit Area (g/m <sup>2</sup> )	120
Thickness (mm)	--
Colour and Tone (i)	White
Quantity and Number of Any Coating	None
Method and Quantity of Fire-Retardant Treatment	Preanently flame retardant fibre
Materials of the Product and its Composite Ratio (ii)	100% Trevira CS
Composition of Weave (iii)	weave
Density (Number/Inch) the Number of Threads per Inch in both warp and weft; and	Warp: 67 / Weft: 58
Yarn Number Count	Nm 10022; Nm 84/2; Nm 60/2

- (i) If the product has a pattern, the representative colour shall be described.
- (ii) Such as wool, nylon, polyester, etc.
- (iii) Such as plain, weave, twilled.



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: 22 February 2022

Our Ref: 23/59379A/02/22  
Your Ref: ---

Page: 3 of 5

Client: **Ludvig Svensson AB**

## **FIRE TESTS ACCORDING to IMO FTP Code 2010:Part 7 Test for Vertically Supported Textiles and Films**

### **Cleaning Procedure**

The sample received no pre-treatment as the fabric was stated to be inherently flame retardant.

### **Conditioning**

The sample was conditioned for not less than 24 hours in the standard atmosphere for conditioning textiles of  $20 \pm 5^\circ\text{C}$  and  $65 \pm 5\%$  R.H.

### **Procedure**

The sample was tested in accordance with IMO FTP Code 2010:Part 7\*. The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard.

A 40mm high propane gas flame was applied to the edge of 5 warp and 5 weft specimens for 15 seconds.

The after-flame time, length of char, existence of surface flashing and ignition of cotton waste from drops were recorded.

\*Deviation from standard

The test was carried out in a test enclosure to different dimensions to that specified in IMO FTP Code 2010:Part 7. The dimensions of the test enclosure are 1820mm wide x 1220mm deep x 1950mm. The test was carried out in a draught free enclosure.



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 © 2022 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: 22 February 2022  
 Our Ref: 23/59379A/02/22  
 Your Ref: ---  
 Page: 4 of 5

**Client: Ludvig Svensson AB**

## Requirements

The Performance Criteria for Curtains and Drapes states that: Products which show any of the following characteristics obtained by the fire test in appendix 1, shall be considered unsuitable for use as curtains, drapes or free-hanging fabric product for use in rooms containing furniture and furnishings of restricted fire risk as defined in the relevant regulations of chapter II-2 of the Convention:-.

1. An after-flame time greater than 5 sec for any of the 10 or more specimens tested with surface application of the pilot flame.
2. Burn through to any edge of any of the 10 or more specimens tested with surface application of the pilot flame.
3. Ignition of cotton wool below specimen in any of the 10 or more specimens tested.
4. An average char length in excess of 150mm observed in any of the 10 or more specimens tested by either surface or edge ignition.
5. The occurrence of a surface flash propagating more than 100mm from the point of ignition with or without charring of the base fabric.

If it is found that either or both of the batches of five specimens cut in both warp and weft directions fail to meet one or more of the criteria specified in subparagraphs .1 to .3 and .5 above because of poor performance of only one of the five specimens tested, one complete retest of a similar batch is permitted. Failure of the second batch to meet any of the criteria shall provide the basis for rejection of the fabric for use.

## Results

	After flame time (s)		Char length (mm)		Flaming to edge (yes or No)		Ignition of Cotton Wool from Flaming Drops (Yes or No)		Surface Flashing (Yes or No), if yes, Propagation Length (mm)	
	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft	Warp	Weft
	0	0	55	45	No	No	No	No	No	No
	0	0	48	61	No	No	No	No	No	No
	0	0	54	42	No	No	No	No	No	No
	0	0	51	65	No	No	No	No	No	No
	0	0	61	40	No	No	No	No	No	No
<b>Mean</b>	<b>0</b>	<b>0</b>	<b>54</b>	<b>51</b>						



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 © 2022 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: 22 February 2022

Our Ref: 23/59379A/02/22  
Your Ref: ---

Page: 5 of 5

Client: **Ludvig Svensson AB**

## Comment

The results indicate the sample meets the requirements according to IMO 2010 FTP Code, Part 7.

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

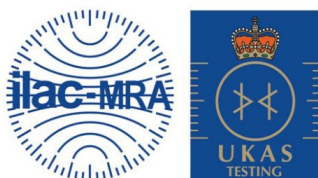
The overall uncertainty budget IMO FTP Code 2010:Part 7 is as follows:-

Measurements:  $\pm 1\text{mm}$   
Duration of Flaming:  $\pm 0.5$  seconds

Reported by:  B Bland, Technical Customer Service 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 © 2022 Shirley Technologies Limited. All rights reserved.