



# Confidential Report

**Our Ref: 27/05040ASupp/06/19**



1066

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



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)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 March 2020

Our Ref: 27/05040ASupp/06/19  
Your Ref:

Page: 1 of 7

Client: All Print Supplies Limited  
7b Fairlie Road  
Slough  
Berkshire  
SL1 4PY

Job Title: Fire Test on One Sample of Clear Film

Client's Order No: --

Date of Receipt: 06 June 2019

Sample reference: One sample of clear film, referenced;  
NU\_COAT M25 - x - x, 3-5 year matt clear monomeric film with a range of adhesives.  
For printing with solvent, latex and UV inks. 80u matt clear, stable calendered monomeric PVC. Supplied with a clear UV acrylic adhesive on a stable 135gsm Kraft or 140gsm PE coated release liner.

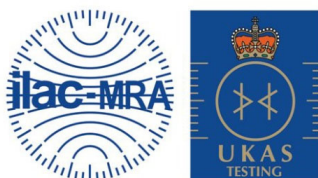
Work Requested: We were asked to make the following test(s):

BS 476 Part 7 & 6

This is a supplementary report to the one issued on the 21<sup>st</sup> June 2019 under our report reference 27/05040A/06/19.

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

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



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 Limited  
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 © 2020 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)

Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 March 2020

Our Ref: 27/05040ASupp/06/19

Your Ref:

Page: 2 of 7

**Client: All Print Supplies Limited**

## **FIRE TESTS ACCORDING TO BS 476:PART 7:1987 (AS AMENDED) (Method for classification of the surface spread of flame of products)**

**Date of Test: 19/06/2019**

### **Conditioning**

The sample was conditioned to constant mass at a temperature of  $23\pm 2^{\circ}\text{C}$  and a relative humidity of  $50\pm 10\%$  and maintained in this condition until required for testing

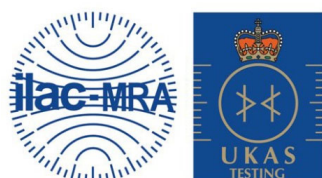
### **Procedure**

The test was carried out in accordance with BS 476:Part 7: 1987. The sponsor sampled the material and the specimens were cut from the sample to the dimensions set out in the standard by the sponsor. The product is self-adhesive, the specimens were tested adhered to plasterboard.

The following were recorded:-

- a) the time at which the flame front crosses each vertical reference line;
- b) the maximum extent of flame spread during the first 1.5 min from the start of the test;
- c) the maximum extent of flame spread during the whole test i.e. 10 min or less (if applicable)
- d) the time (and distance) at which maximum flame spread is reached.

The flame spread at 1.5min and the final flame spread results were compared with the standard class limits and a classification was assigned.



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 Limited  
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 © 2020 Shirley Technologies Limited. All rights reserved

Date: 20 March 2020

Our Ref: 27/05040ASupp/06/19  
Your Ref:

Page: 3 of 7

Client All Print Supplies Limited

## Requirements

The class limits for flamespread, detailed in BS 476:Part 7: are set out below.

	Flame spread at 1.5 min (mm)	Final flame spread (mm)
Class 1	165 (+25)	165 (+25)
Class 2	215 (+25)	455 (+45)
Class 3	265 (+25)	710 (+75)
Class 4	Exceeding Class 3 limits.	

A definitive classification is based on a sample of six specimens and the figure in brackets gives the tolerance by which only one specimen in six may exceed the class limit assigned.

## Results

The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.

Time for flame spread to reach (s)								Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
75	165	215	265	455	710	785	825			
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60
--	--	--	--	--	--	--	--	60	60	60

## Comments

The results indicate that the sample met the performance requirements of Class 1.



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)

Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 March 2020

Our Ref: 27/05040ASupp/06/19

Your Ref:

Page: 4 of 7

Client All Print Supplies Limited

## FIRE TESTS ACCORDING TO BS 476-6:1989+A1:2009 (2015)

### Fire tests on building materials and structures. Method of test for fire propagation for products

Date of Test: 19/06/2019

#### Test Method

The test was carried out in accordance with BS 476-6:1989+A1:2009 (2015).

Prior to testing the sample the calibration of the equipment was determined to ensure compliance with the test limits set out in the standard.

The sponsor sampled the material and the specimens were cut from the sample received to the dimensions set out in the standard by the sponsor. The product is self-adhesive, the specimens were tested adhered to plasterboard.

Temperatures of the flue gases were measured to the nearest degree centigrade at the time intervals and periods set out below, taking zero time as the moment of ignition of the gas supply. The temperature was measured by means of two thermocouples with their measuring junctions located in the cowl of the apparatus as required by the standard.

The relevant temperature-time intervals were observed for each individual specimen and the calibration board according to the ranges 0 to 3 minutes every 30 seconds, 4 to 10 minutes every 1 minute and 12 to 20 minutes every 2 minutes to give 3 time periods.

N.B: The shrinkage in the plane of the calibration board was not determined after heat soaking at 1000°C.



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 Limited  
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 © 2020 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)

Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 March 2020

Our Ref: 27/05040ASupp/06/19

Your Ref:

Page: 5 of 7

**Client All Print Supplies Limited**

## Calculation of Results

At each time interval the temperature of the calibration board was subtracted from that of the individual specimen temperature, this was then divided by ten multiplied by the time interval.

The sum of each individual value in each time period was then calculated to give an index of performance,  $s$ , for each specimen.

The fire propagation index of the product is calculated from the average of the individual  $s$  values for the total number of specimens in each time period.

$$\text{Total } I = i_1 + i_2 + i_3$$

A definitive classification is based on a sample of at least three specimens.

## Requirements

A Class 0 is the highest National product performance classification for lining materials. To meet Class 0 a material has to meet the requirements laid down in the UK Building Regulations 2010, Approved Document B, Appendix A that states that a composite material is either:

- composed throughout of materials of limited combustibility; or
- a class 1 material which has a propagation index ( $I$ ) of not more than 12 and a sub index ( $i_1$ ) of not more than 6 when tested to BS 476 Part 6.

## Results

Number of specimens tested	Sub-index $i_1$	Sub-index $i_2$	Sub-index $i_3$	Total Fire propagation index $I$
3	0.7	0.6	0.5	1.8



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 Limited  
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 © 2020 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)  
Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 March 2020

Our Ref: 27/05040ASup/06/19  
Your Ref:

Page: 6 of 7

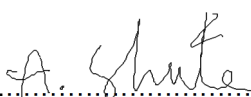
**Client All Print Supplies Limited**

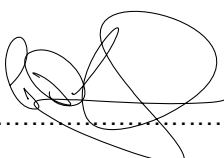
## Comments

In our opinion:-

- 1) The test results relate only to the behaviour of the test specimens of the product under the particular conditions of test; they are not intended to be the sole criterion for assessing the potential fire hazard of the product in use.
- 2) The results indicate that the sample met the requirements of Class 0 of the UK Building Regulations 2010, Approved Document B, Appendix A.

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.

Reported by:.....  ..... A Shute, Senior Lab Technician

Countersigned by:.....  ..... P Doherty, Executive 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 Limited  
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 © 2020 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)

Website: [www.bttg.co.uk](http://www.bttg.co.uk)

Date: 20 March 2020

Our Ref: 27/05040ASupp/06/19

Your Ref:

Page: 7 of 7

**Client All Print Supplies Limited**

## **Uncertainty Budget - Annex**

The overall uncertainty budgets for BS 476-7:1987 and BS 476-6:1989+A1:2009 (2015) are as follows:-

### **BS 476-7:1987**

Overall:  $\pm 20\%$

### **BS 476-6:1989+A1:2009 (2015)**

Overall:  $\pm 6\%$



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 Limited

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 © 2020 Shirley Technologies Limited. All rights reserved