



Confidential Report

Our Ref: 27/05966B/09/22





Wira House, West Park Ring Road, Leeds, LS16 6QL, UK.
Telephone: +44 (0) 113 259 1999
Email: onestopshop@bttg.co.uk
Website: www.bttg.co.uk

Date: 3 October 2022

Our Ref: 27/05966B/09/22

Your Ref: ---

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Client:

Smile Plastics

Unit 24
Crofty Industrial Estate
Swansea
SA4 3RS

Job Title:

Fire Test on One Sample of Plastic Panel

Clients Order Ref:

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Date of Receipt:

8 September 2022

Description of Sample:

One sample of panel, referenced; Recycled HIPS sheet (Alba) .

Work Requested:

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

BS EN 11925-2

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



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Note: This report relates only to the items tested.

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FIRE TESTS ACCORDING TO BS EN ISO 11925-2:2020

Reaction to fire tests for building products – Part 2: Ignitability when subjected to direct impingement of flame

Date of Test: 21/09/2022

Conditioning

Test specimens and filter paper conditioned as described in BS EN 13238:2010.

Procedure

The sample was tested in accordance with BS EN ISO 11925-2:2020.

Three specimens from each direction were tested in accordance with the above standard. Specified filter paper was placed beneath the specimen holder and replaced between tests.

The specimens were mounted vertically in the specimen holder so that one end and both sides were enclosed with the exposed end 30mm from the end of the frame. The burner was inclined at an angle of 45°. The flame height was set at 20 mm with the flame impinging on the specimen for 15 seconds on the centre line, 40 mm above the bottom edge.

A marker was placed 150 mm above the upper end of the burner and the time recorded when the flame tip reached the marker, if applicable. The following parameters were also recorded:-

1. If ignition occurs
2. Presence of flaming debris, if applicable
3. Ignition of the filter paper, if applicable

Duration of test

For a flame application time of 15 seconds, the total test duration is 20 seconds after application of the flame.



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Classification Criteria

The samples were classified according to BS EN 13501-1:2018 Fire classification of Construction Products and Building Elements: Part 1 – Classification using Test Data from Reaction to Fire Tests.

Flaming Classification	
Classification	Criteria (mean values)
E	$F_s \leq 150\text{mm}$ within 20 seconds
F	Fails Class E

Flaming droplets / particles classification	
Classification	Criteria
No classification	Pass
d2	Fail (Ignition of paper)

Results

Specimen	Ignition (Yes or No)	Tip of flame reaches 150mm		Flaming droplets		
		Yes or No	Time taken (s)	Yes or No	Ignition of Filter paper (Yes or No)	
Machine Direction	1	No	No	N/A	No	No
	2	No	No	N/A	No	No
	3	No	No	N/A	No	No
Across Machine Direction	1	No	No	N/A	No	No
	2	No	No	N/A	No	No
	3	No	No	N/A	No	No



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Note

Sample was tested as an essentially flat product, the specimens were tested unsupported with no backing board. A surface exposure was carried out only.

Note

Test BS EN ISO 11925-2:2020 is accredited under our flexible scope policy.

Comments

The results meet the requirements of a Class E, as specified in BS EN 13501-1:2018.

Where required to make a judgement to any pass/fail criteria an estimation of uncertainty of measurement has been taken into account. 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.

Reported by:  G Harvey (Mr), Laboratory Technician

Countersigned by:  A Shute, Senior Laboratory Technician

Enquiries concerning this report should be addressed to Customer Services.



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Uncertainty Budget - Annex

The overall uncertainty budget for both BS EN ISO 11925-2 is as follows:-

± 2 seconds for time recorded removal of flame and terminate test



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