



Confidential Report

Our Ref: 27/04186B/03/17



1066

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



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Date: 27 April 2017

Our Ref: 27/04186B/03/17

Your Ref: PL/BRP/003

Page: 1 of 6

Client: Edu-Chem UK Limited
Unit M
92 Northstage
Broadway
Salford
M50 2UW

Job Title: Fire Test on One Sample of Foam

Client's Order No: POP 3360

Date of Receipt: 31 March 2017

Description of Sample(s): One sample of foam, referenced; G-1945f

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

BS 476 Part 7:1987

* subcontracted test, UKAS accredited

** subcontracted test, EN ISO/IEC 17025 accredited

*** not UKAS accredited



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Page: 2 of 5

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**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: 20/04/2017

Conditioning

The composite samples were 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 476-7:1987. The sample was supplied by the sponsor of the test. Each specimen was tested loose laid over a 12mm thick calcium silicate board.

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.

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Your Ref: PL/BRP/003

Page: 3 of 5

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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) (mm)					Flame spread at 1.5 min (mm)	Maximum flame spread (mm)	Time to reach maximum flame spread (s)
165	215	265	455	710			
--	--	--	--	--	100	120	180
--	--	--	--	--	140	150	265
--	--	--	--	--	120	160	200
--	--	--	--	--	120	150	80
--	--	--	--	--	150	160	180
--	--	--	--	--	100	120	85



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Page: 4 of 5

Client: Edu-Chem UK Limited

Classification

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

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:..... *B Marsden* B Marsden (Mrs), Fire Technician

Countersigned by:..... *P Doherty* P Doherty, Operational Head

Enquiries concerning this report should be addressed to Customer Services.

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Page: 5 of 5

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Uncertainty Budget - Annex

The overall uncertainty budgets for BS 476-7:1987 are as follows:-

BS 476-7:1987

Overall: $\pm 20\%$

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