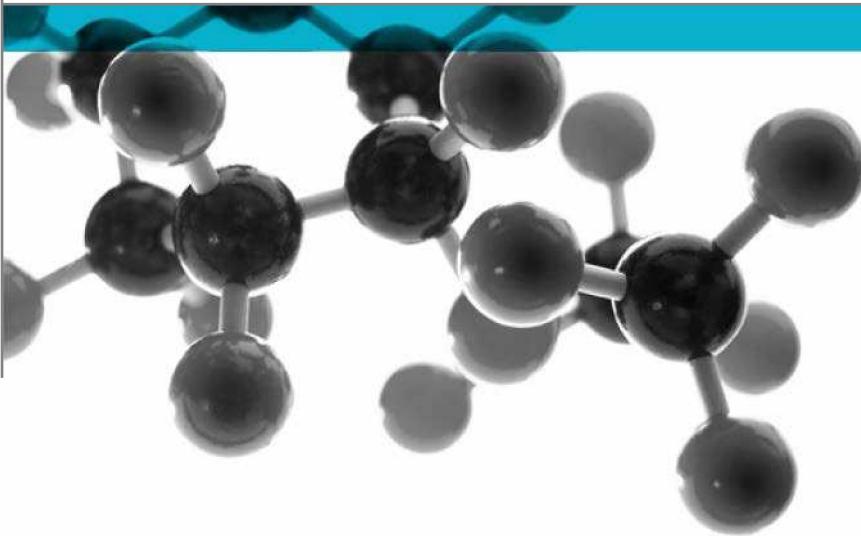


# ISO 5658-2:2006+A1:2011



## Reaction to Fire Tests – Spread of Flame - Lateral Spread of flame test on Building and Transport Products in Vertical Configuration

A Report To: Smyth Composites Ltd

Document Reference: 422291

**Date:** 21<sup>st</sup> January 2020

**Issue No.:** 1

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## Executive Summary

**Objective** To determine the performance of the following product when tested in accordance with ISO 5658-2:2006+A1:2011

Generic Description		Product reference	Thickness	Weight per unit area
Coated fibre reinforced phenolic resin sheet		"Phenclad"	3.5mm	3.4kg/m <sup>2</sup>
<b>Individual components used to manufacture composite:</b>				
Coating		"AE 265/8"	Unable to provide	Unable to provide
Moulded sheet	Phenolic resin	"Cellobond"	Not applicable	Not applicable
	Fibre reinforcement	"Dong Yu"	Not applicable	2 x 600g/m <sup>2</sup>
<b>Please see pages 5, 6 &amp; 7 of this test report for the full description of the product tested</b>				

**Test Sponsor** Smyth Composites Ltd, Panmure Industrial Estate, Carnoustie, Angus, DD7 7NP



### Summary of Test Results:

Parameter	Units	Specimen Number			Average
		1	2	3	
Heat for Sustained Burning (Q <sub>sb</sub> )	MJm <sup>-2</sup>	5.46	10.72	10.38	8.86
Critical flux at Extinguishment (CFE)	kW/m <sup>2</sup> (±4%)	43.50	39.10	39.10	40.57
Flaming droplets with sustained flaming (>10s)	N/A	No	No	No	N/A

The reported expanded uncertainty is based on a standard uncertainty multiplied by a coverage factor k=2, providing a coverage probability of approximately 95%. The uncertainty evaluation has been carried out in accordance with UKAS requirements.

**Date of Test** 18<sup>th</sup> December 2020

## Signatories

	
Responsible Officer T. Kinder * Senior Technical Officer	Authorised T. Mort * Senior Technical Officer

\* For and on behalf of [Warringtonfire](#).

Report Issued: 21<sup>st</sup> January 2020

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