

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing

A.B.N 43 006 014 106

1st Floor, 191 Racecourse Road, Flemington, Victoria 3031

P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

## Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** Gerflor Australasia Pty Ltd  
17 Cato Street  
Hawthorn East VIC 3123

**Test Number :** 20-003512  
**Issue Date :** 30/07/2020  
**Print Date :** 30/07/2020

**Sponsor Product** Clients Ref : "SPM Decor Sheet (Decochock, Decoclean, Decosmic)"  
Rigid PVC Panel  
Colour : White  
End Use : Commercial wall covering  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 2800g/m2  
Nominal Thickness : 2mm

Product Group Number Classification : 1

Average Specific Extinction Area : 2.1 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

45352

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## TEST REPORT

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**Sample Description** Clients Ref : "SPM Decor Sheet (Decochock, Decoclean, Decosmic)"  
Rigid PVC Panel  
Colour : White  
End Use : Commercial wall covering  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 2800g/m<sup>2</sup>  
Nominal Thickness : 2mm

**AS/NZS 3837-1998** Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 30/07/2020  
Operator AWTA Test Operator 2  
Face Tested Textured Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	28.7	27.5	27.3	27.8	kW/m <sup>2</sup>
Average Specific extinction area	0.0	6.2	0.0	2.1	m <sup>2</sup> /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	514	534	530	526	sec
Test duration	785	770	799	785	sec
Peak heat release after ignition	33.7	32.4	32.4	32.9	kW/m <sup>2</sup>
Average heat at 60 s	26.3	29.2	25.7	27.1	kW/m <sup>2</sup>

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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Average heat at 180 s	29.8	28.5	28.3	28.9	kW/m <sup>2</sup>
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>
Total heat released	7.9	6.6	7.3	7.3	MJ/m <sup>2</sup>
Average effective heat of combustion	8.6	10.5	9.5	9.5	MJ/kg
Initial thickness	8	8	8	8.0	mm
Initial mass	112.0	115.3	115.6	114.3	g
Mass remaining	104.6	110.2	109.4	108.1	g
Mass percentage pyrolysed	6.6	4.4	5.4	5.5	%
Mass loss	0.9	0.6	0.8	0.8	kg/m <sup>2</sup>
Average rate of mass loss	3.4	2.6	2.8	2.9	g/m <sup>2</sup> .s

**Additional Observations** Transitory flaming was observed prior to ignition  
**Difficulties Encountered during Testing** None

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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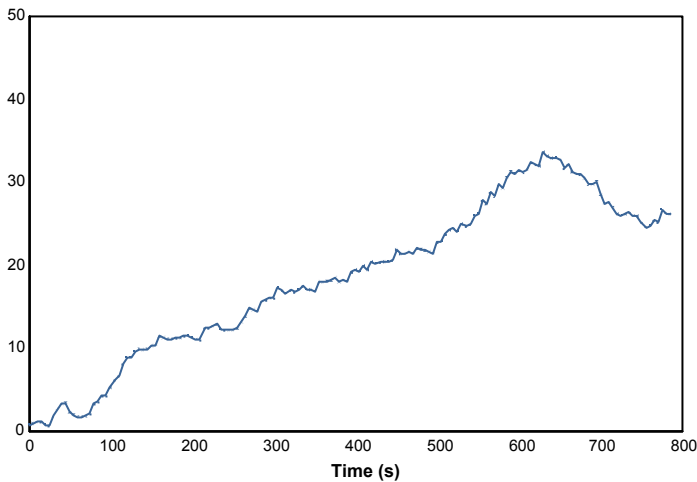
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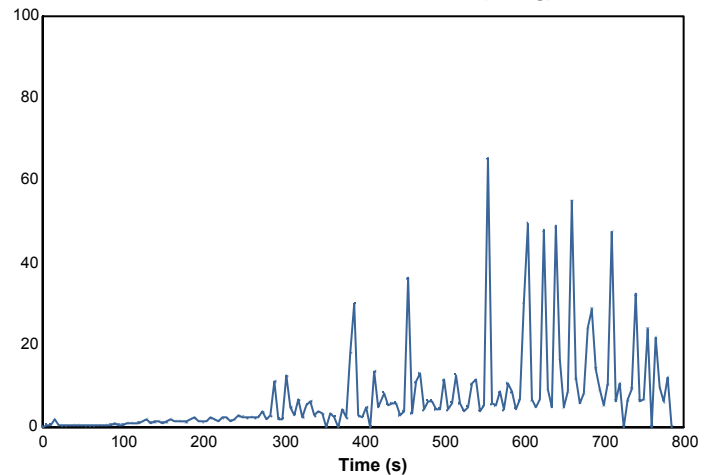
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**Issue Date :** 30/07/2020  
**Print Date :** 30/07/2020

**Specimen :** 1

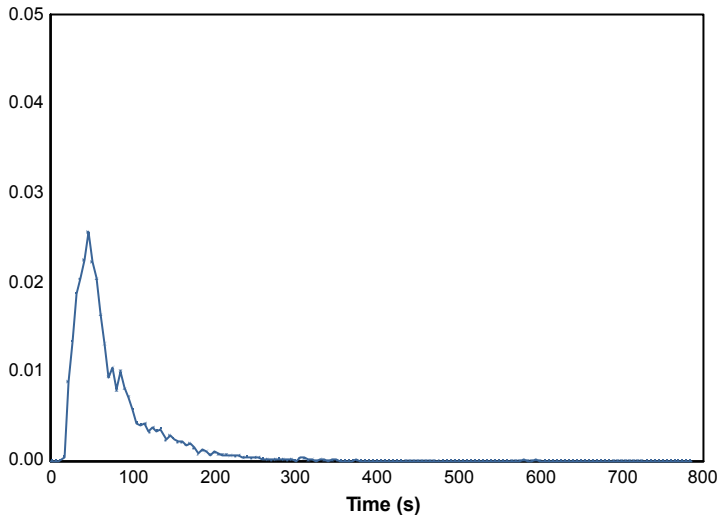
Heat release rate (kW/m<sup>2</sup>)



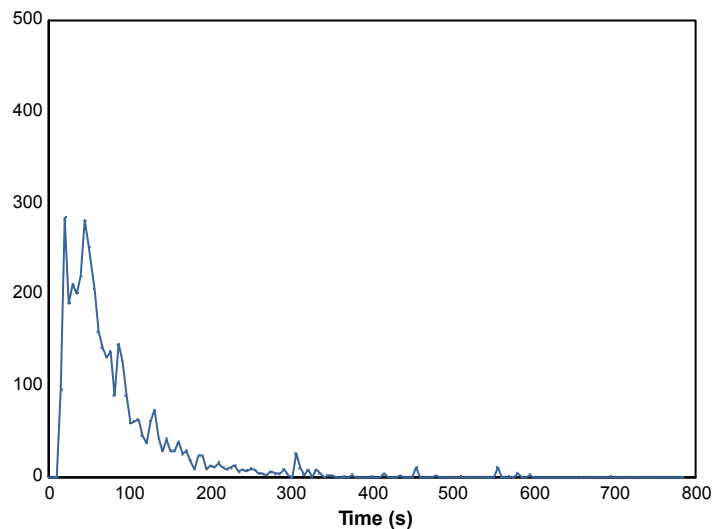
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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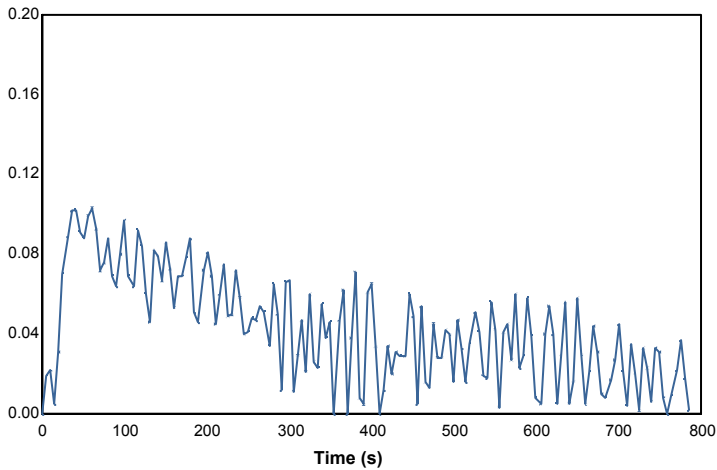
Phone (03) 9371 2400

## TEST REPORT

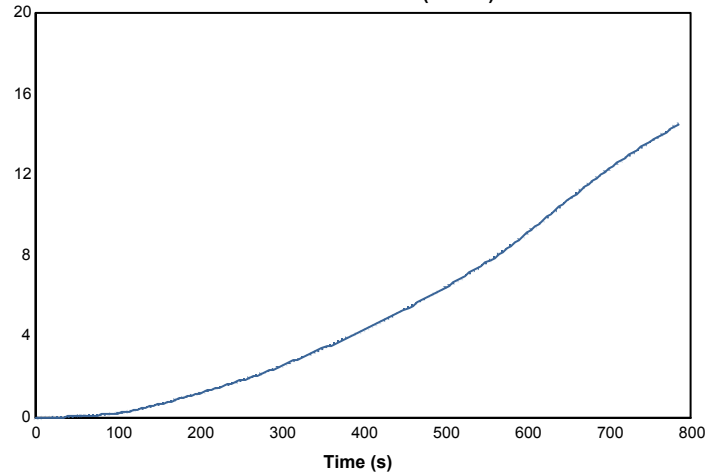
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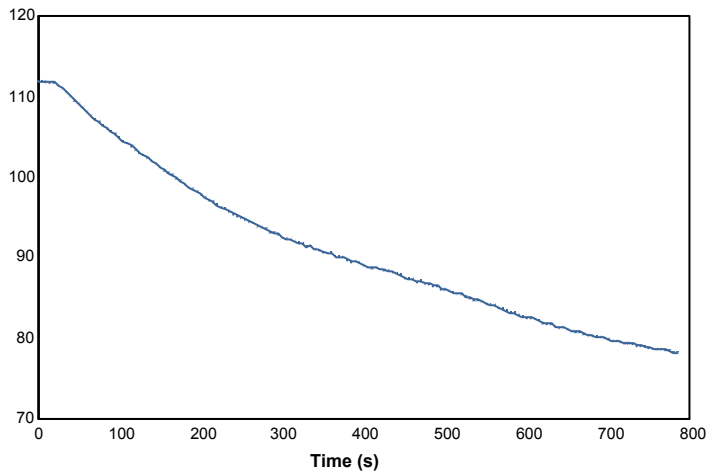
Mass loss rate (g/s)



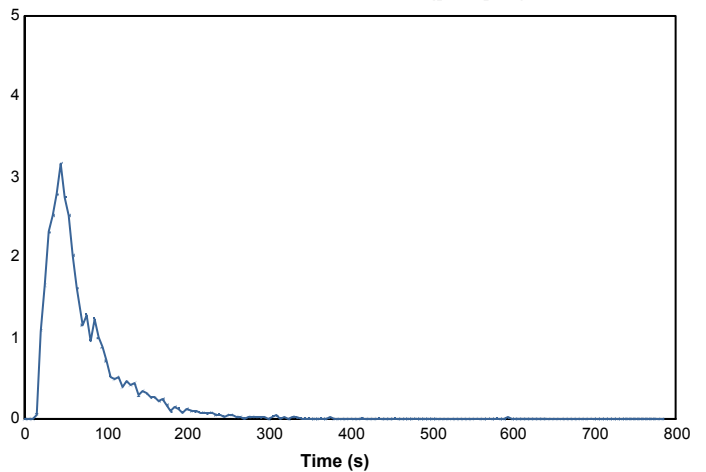
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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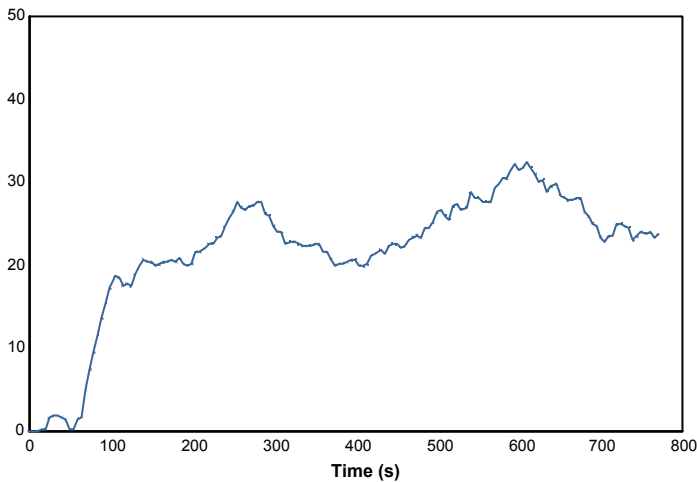
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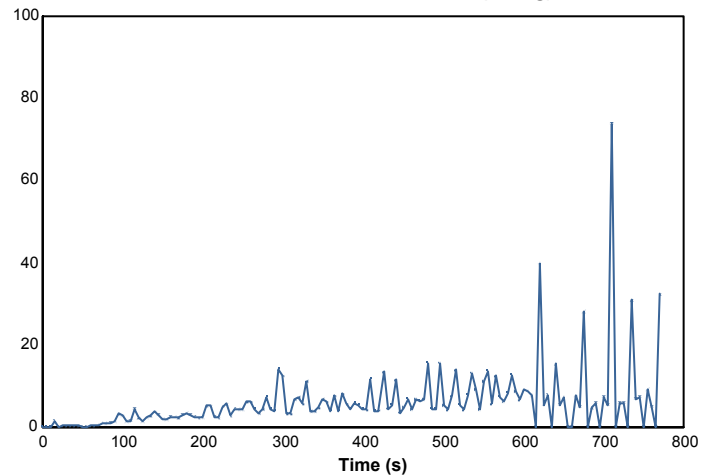
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**Specimen :** 2

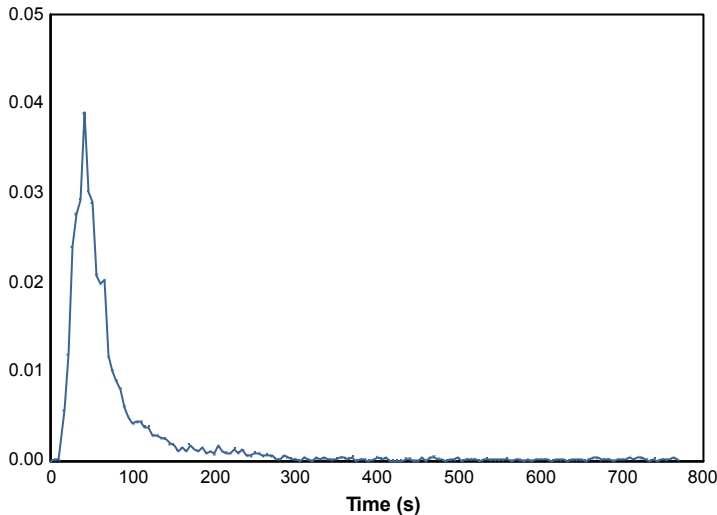
Heat release rate (kW/m<sup>2</sup>)



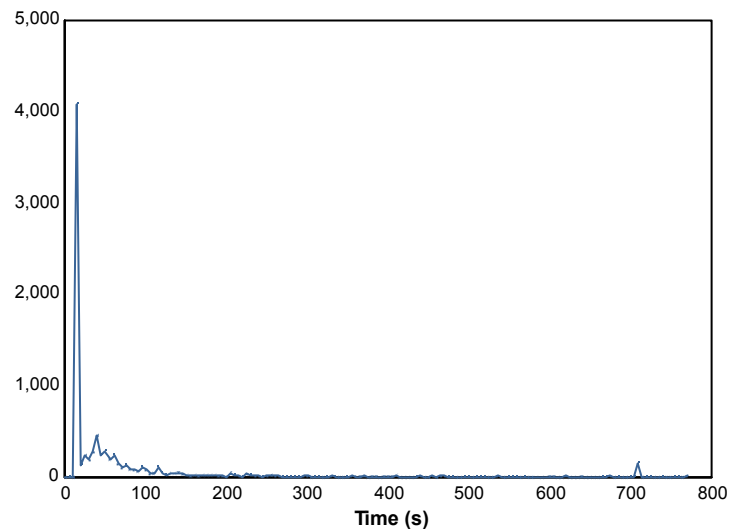
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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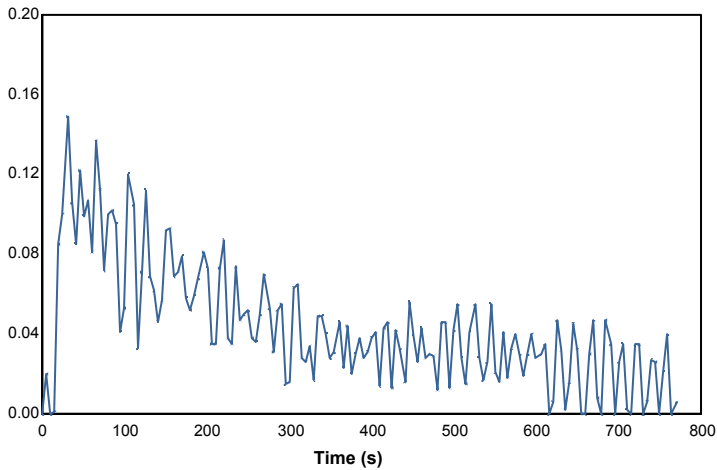
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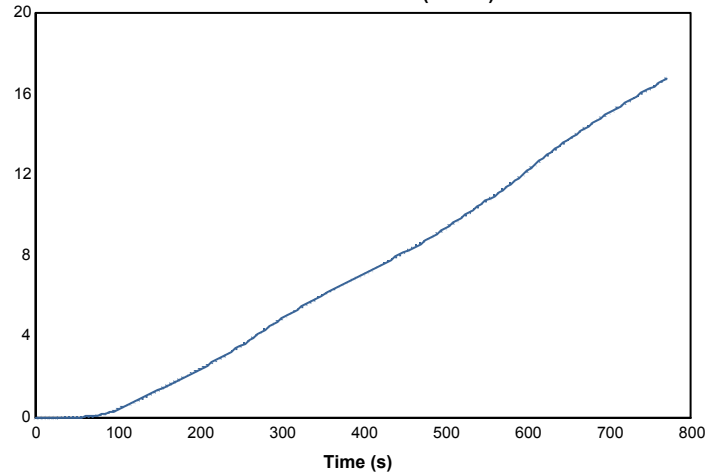
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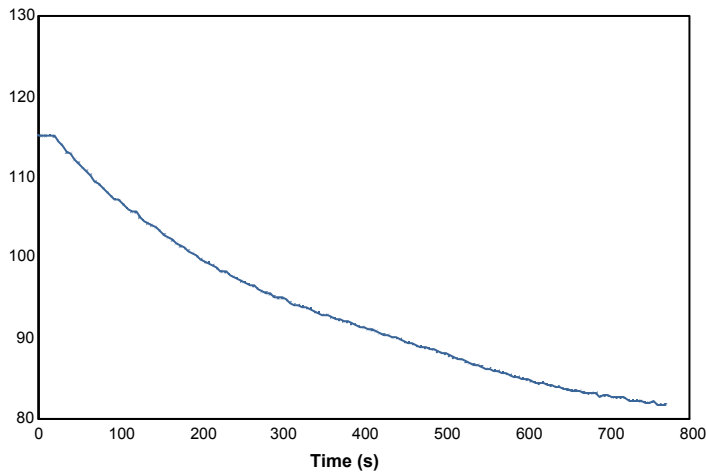
Mass loss rate (g/s)



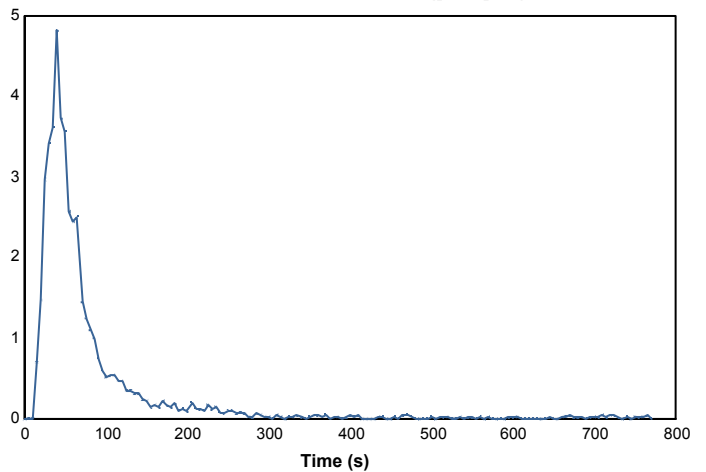
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s]/m<sup>2</sup>)



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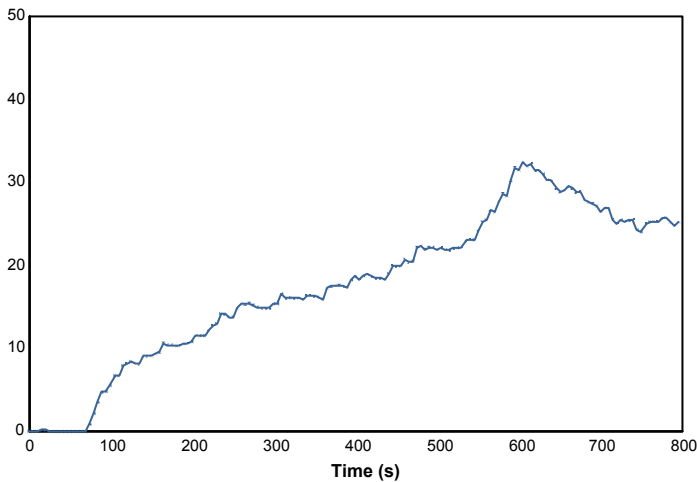
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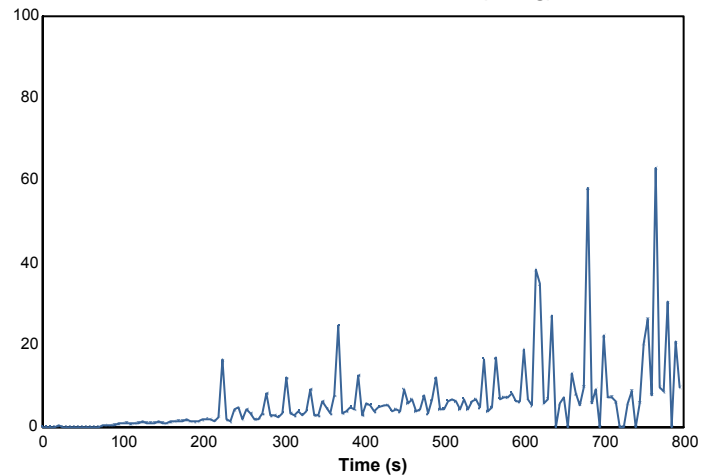
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**Specimen :** 3

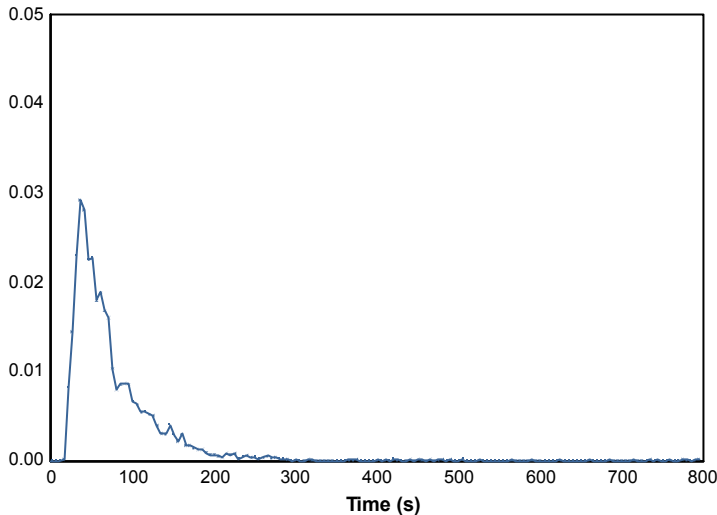
Heat release rate (kW/m<sup>2</sup>)



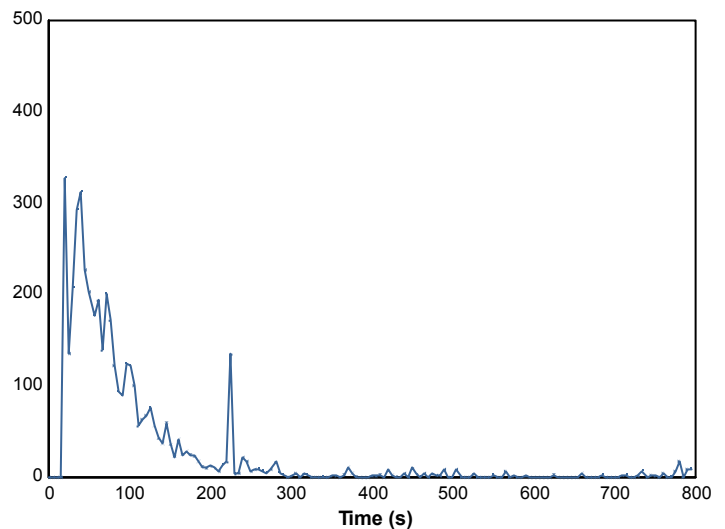
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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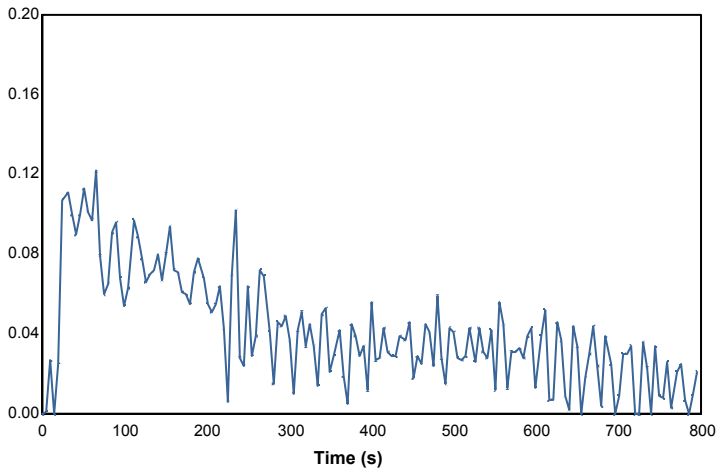
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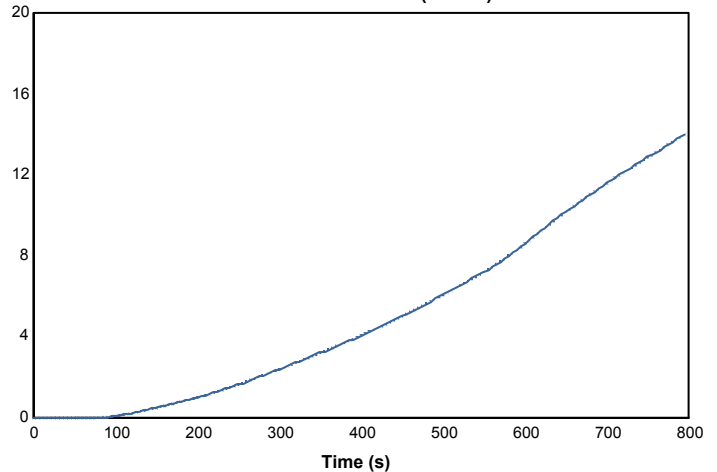
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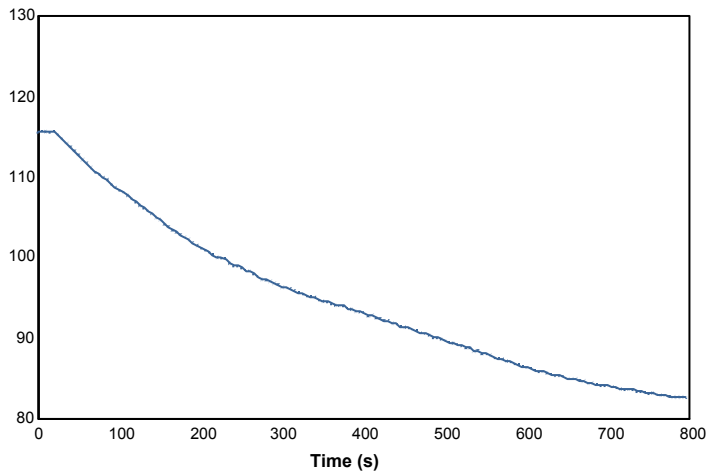
Mass loss rate (g/s)



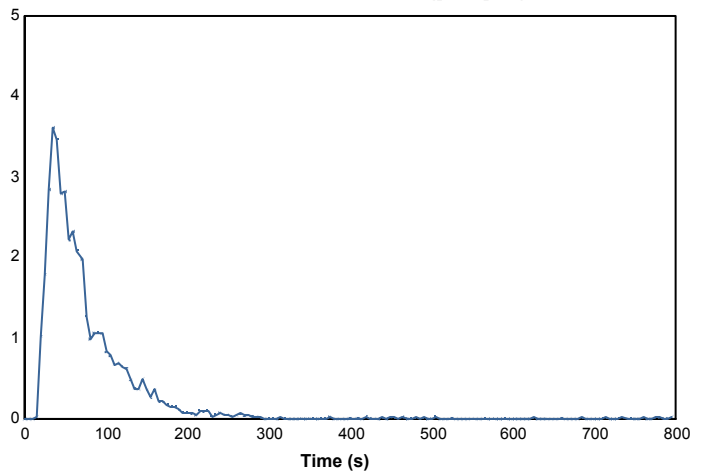
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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