

# 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

## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 22-001161  
**Issue Date :** 27/04/2022  
**Print Date :** 28/04/2022  
**Order Number :** 3455941

**Sample Description** Clients Ref : "Decorated MDF #29194"  
Rigid Panel  
Colour : White  
Nominal Composition : Laminated MDF  
Nominal Thickness : Approx: 18mm



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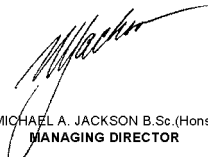
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Accreditation Numbers: 983, 985, and 1356

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0204/11/06

  
Sean Bassett  
APPROVED SIGNATORY

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

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

Date Tested 27-04-2022  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	71.1	62.6	73.5	69.1	kW/m <sup>2</sup>
Average Specific extinction area	47.3	30.1	20.4	32.6	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	64	49	47	53	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	189.3	188.6	187.3	188.4	kW/m <sup>2</sup>
Average heat at 60 s	133.8	100.8	120.9	118.5	kW/m <sup>2</sup>
Average heat at 180 s	151.6	133.7	142.1	142.5	kW/m <sup>2</sup>
Average heat at 300 s	142.1	129.0	135.8	135.7	kW/m <sup>2</sup>
Total heat released	251.3	222.3	261.0	244.9	MJ/m <sup>2</sup>
Average effective heat of combustion	18.0	16.0	18.6	17.5	MJ/kg
Initial thickness	18	18	18	18.0	mm
Initial mass	131.6	130.2	131.6	131.1	g
Mass remaining	18.1	17.3	18.2	17.9	g
Mass percentage pyrolysed	86.2	86.7	86.2	86.4	%

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Mass loss	14.0	13.9	14.0	14.0	kg/m <sup>2</sup>
Average rate of mass loss	4.0	3.9	3.9	3.9	g/m <sup>2</sup> .s
Additional Observations	NONE				
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.

Retainer grid was used to contain the test specimen within the sample holder

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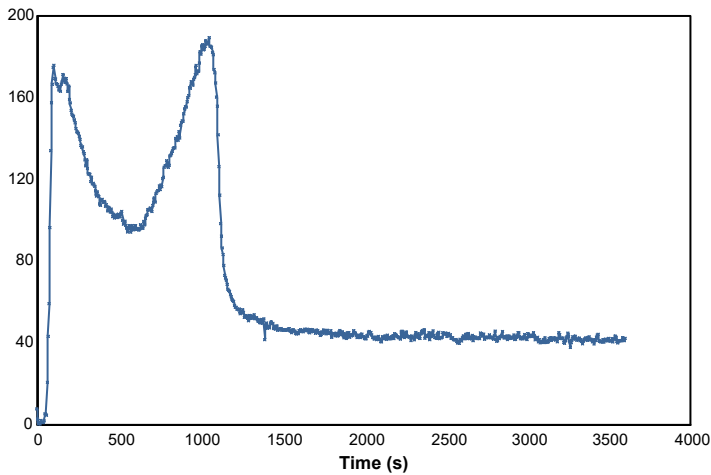
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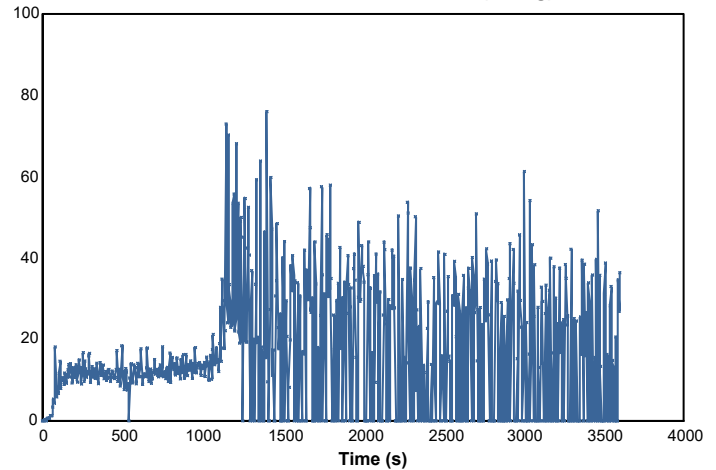
**Test Number :** 22-001161  
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**Order Number :** 3455941

**Specimen :** 1

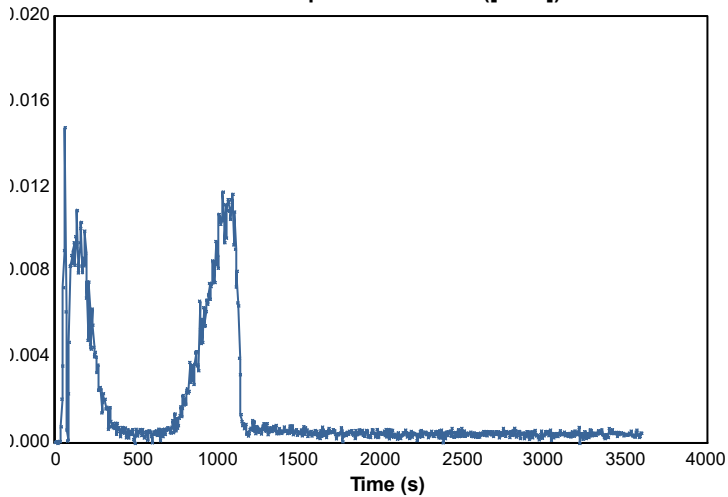
**Heat release rate (kW/m<sup>2</sup>)**



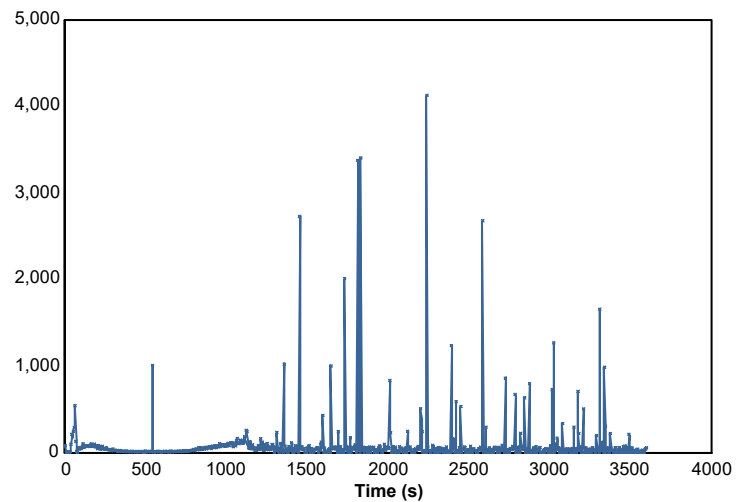
**Effective heat of combustion (MJ/kg)**



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



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



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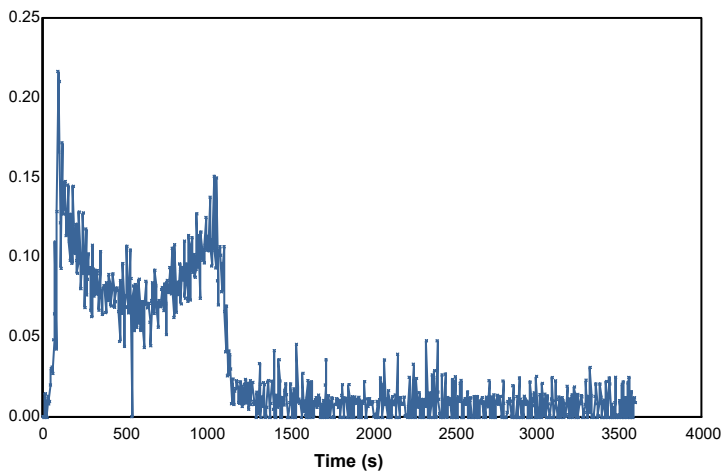
Phone (03) 9371 2400

## TEST REPORT

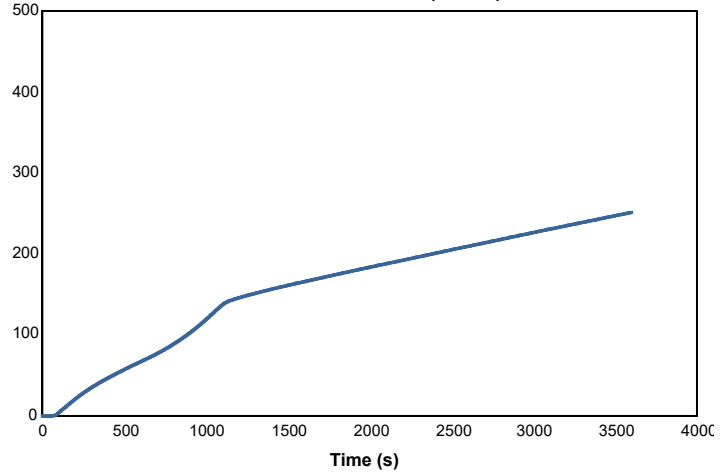
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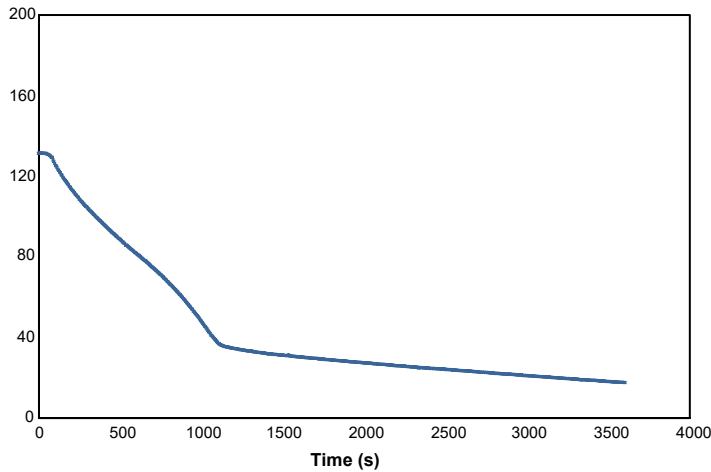
**Mass loss rate (g/s)**



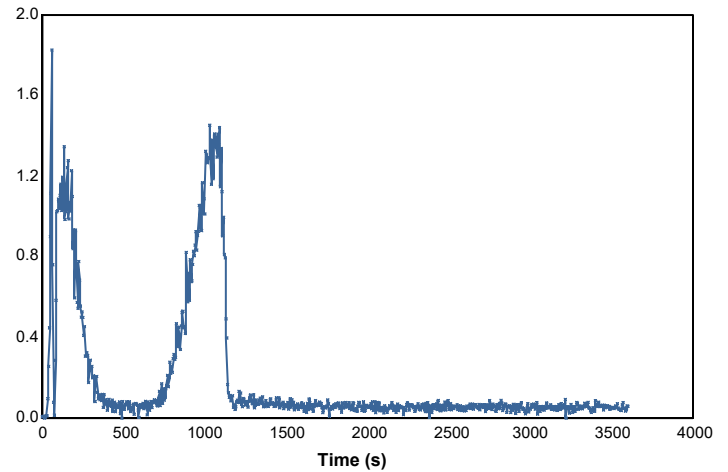
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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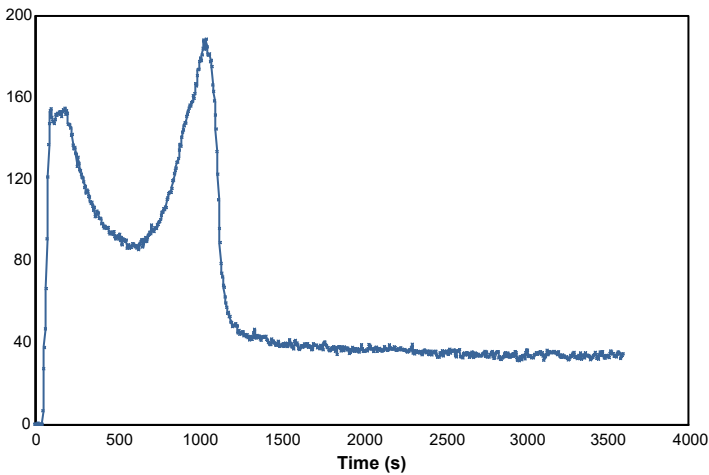
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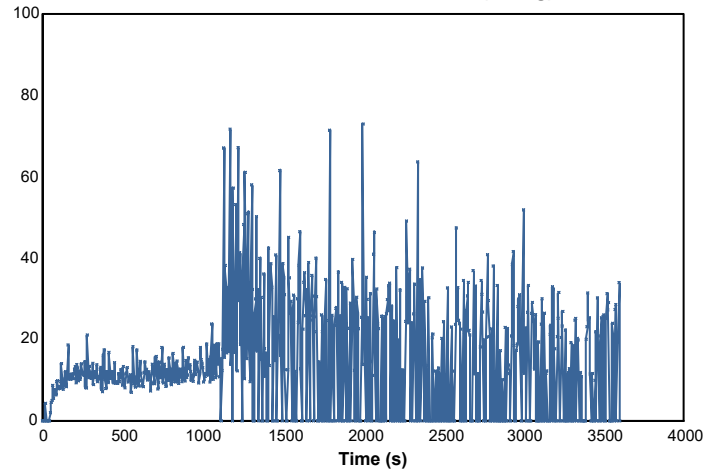
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**Specimen :** 2

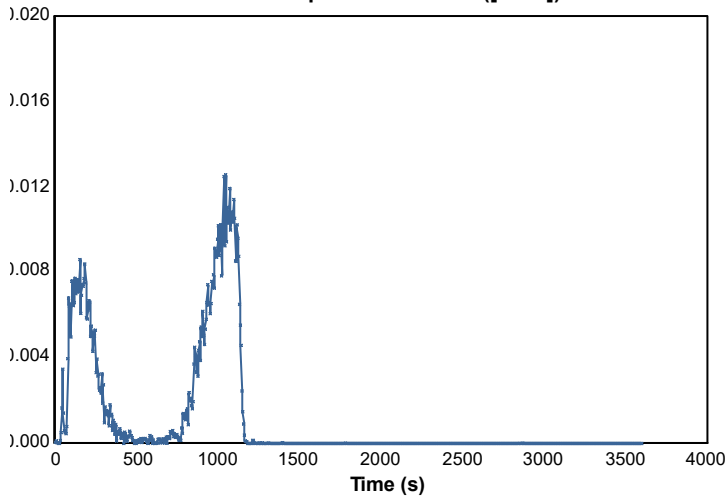
**Heat release rate (kW/m<sup>2</sup>)**



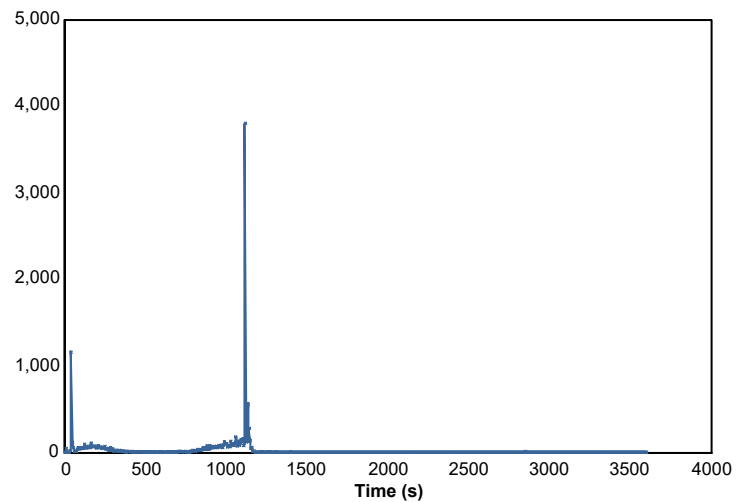
**Effective heat of combustion (MJ/kg)**



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



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



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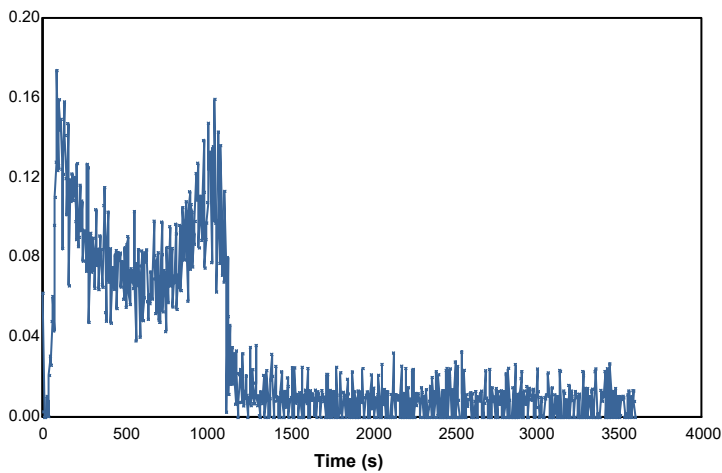
Phone (03) 9371 2400

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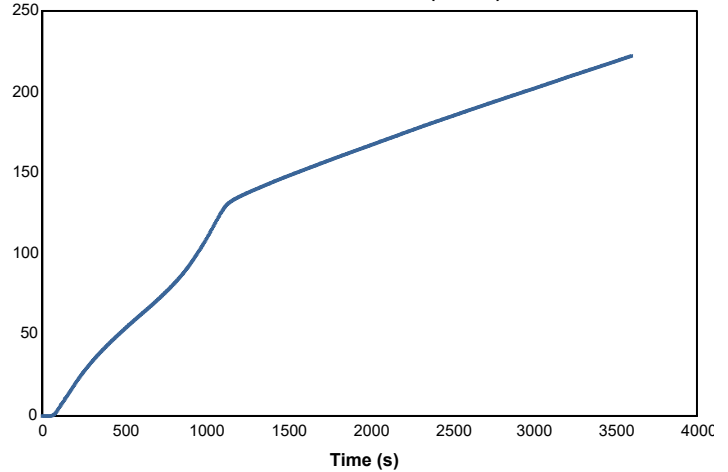
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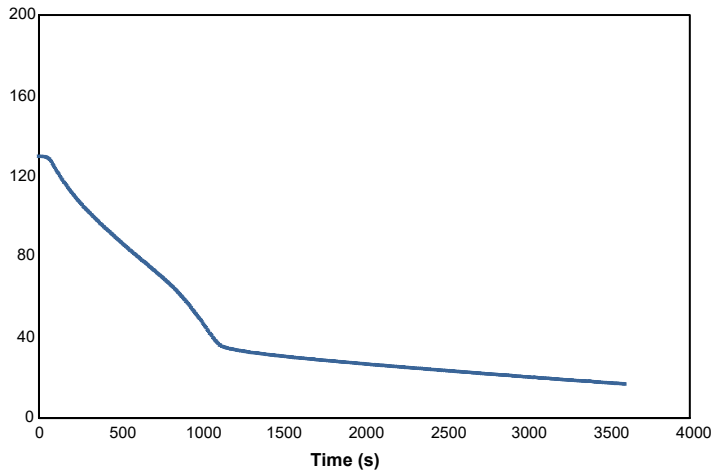
**Mass loss rate (g/s)**



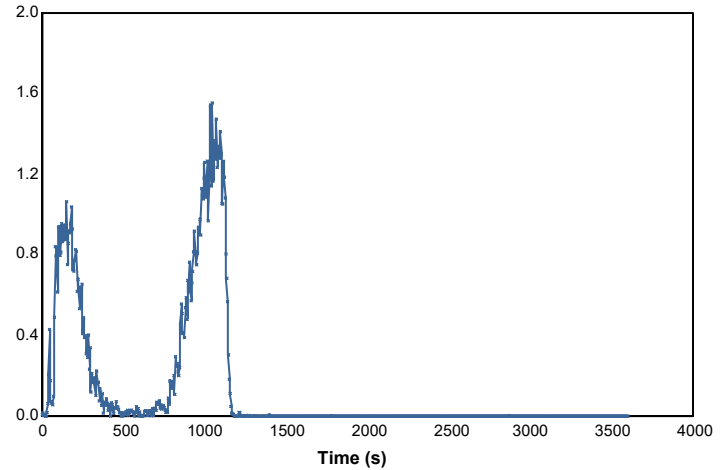
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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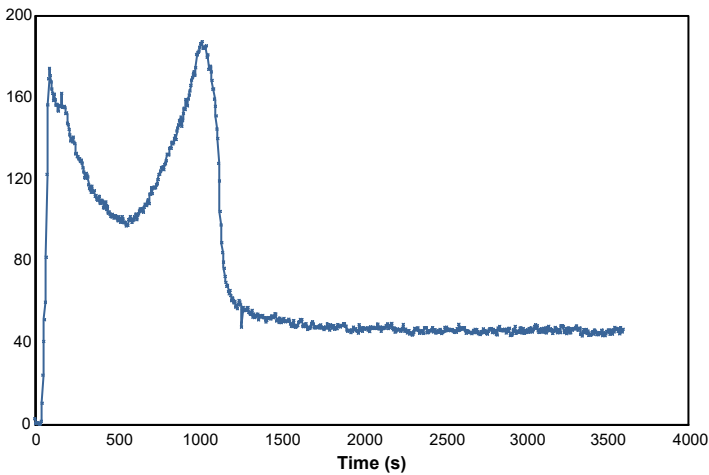
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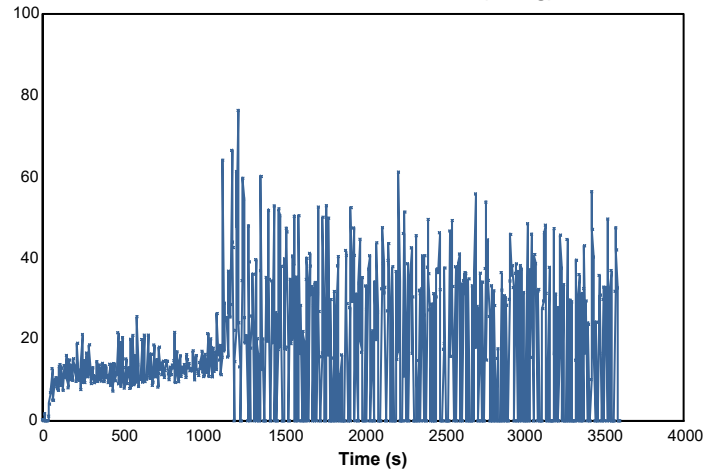
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**Specimen :** 3

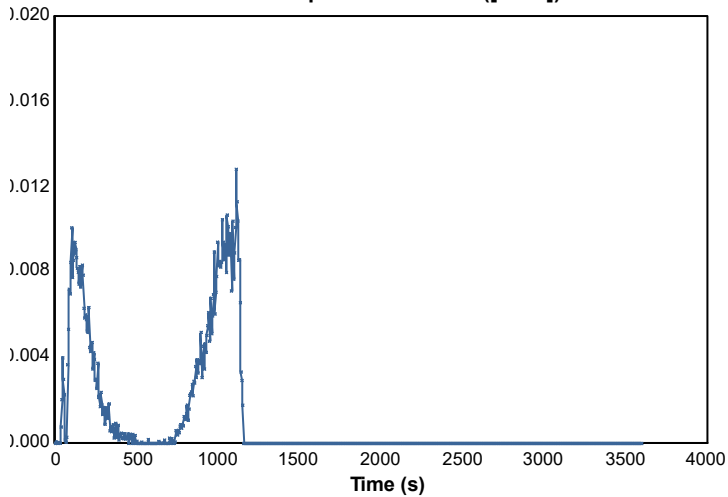
**Heat release rate (kW/m<sup>2</sup>)**



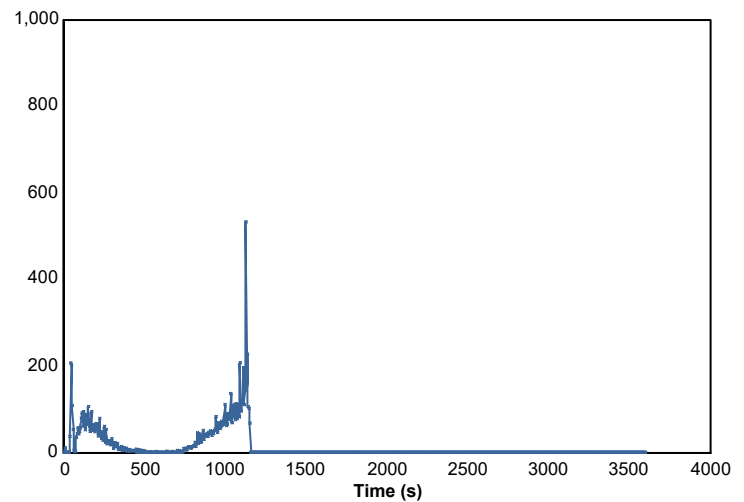
**Effective heat of combustion (MJ/kg)**



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



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



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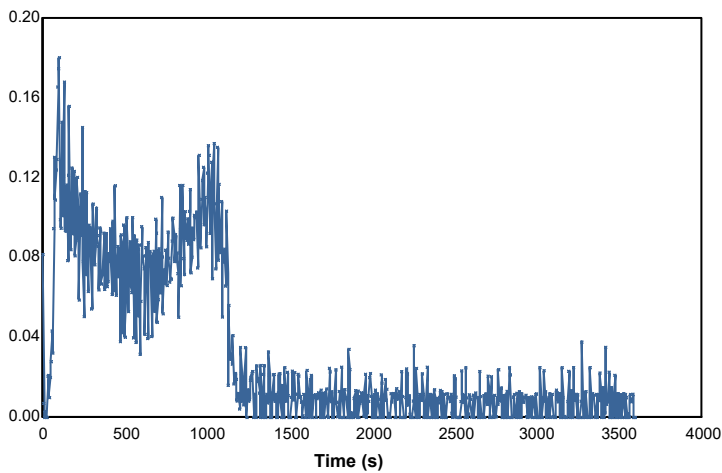
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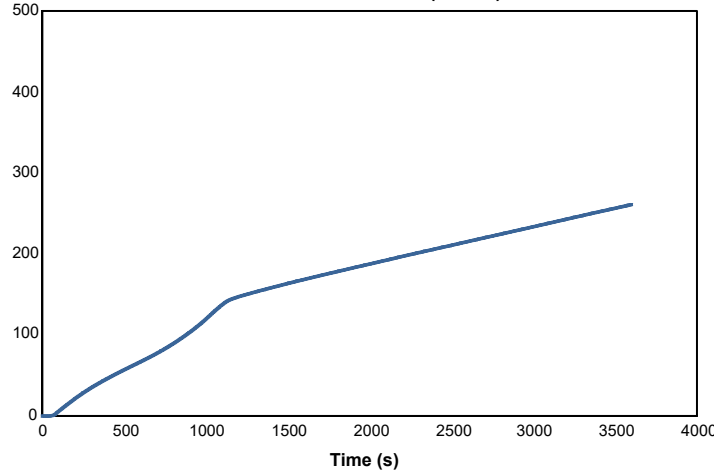
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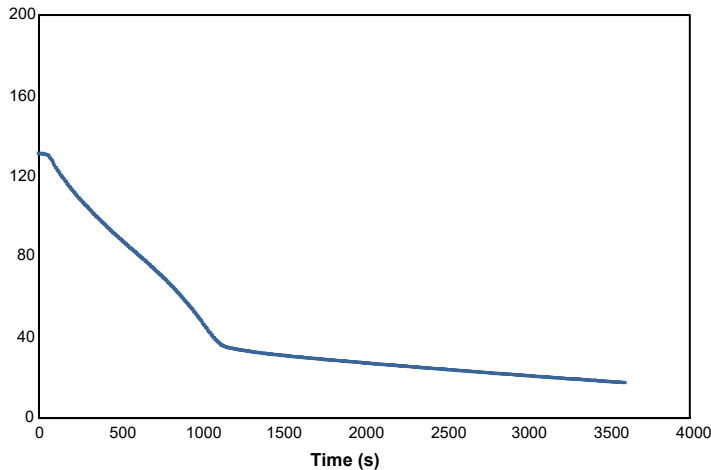
**Mass loss rate (g/s)**



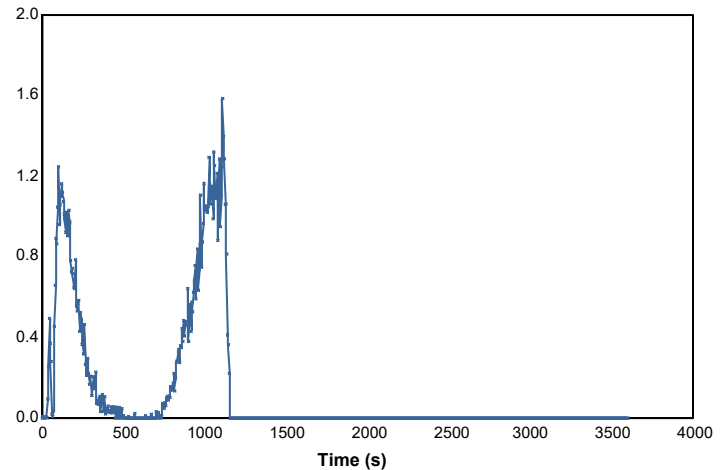
**Total heat released (MJ/m<sup>2</sup>)**



**Mass (g)**



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



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