

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

**Test Number :** 20-002465  
**Issue Date :** 26/05/2020  
**Print Date :** 26/05/2020

**Sponsor Product** Clients Ref : "Laminex Multipurpose Compact Laminate"  
Rigid panel  
Colour : Black  
Nominal Composition : Compact laminate incorporating cellulose fibre and thermosetting resins  
Nominal Mass per Unit Area/Density : 1400kg/m3  
Nominal Thickness : 13mm

Product Group Number Classification : 3

Average Specific Extinction Area : 41.4 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

44247

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## TEST REPORT

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

**Test Number :** 20-002465  
**Issue Date :** 25/05/2020  
**Print Date :** 26/05/2020  
**Order Number :** 3455941

**Sample Description** Clients Ref : "Laminex Multipurpose Compact Laminatate"  
Rigid panel  
Colour : Black  
Nominal Composition : Compact laminate incorporating cellulose fibre and thermosetting resins  
Nominal Mass per Unit Area/Density : 1400kg/m<sup>3</sup>  
Nominal Thickness : 13mm

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

Date Tested 25/05/2020  
Operator AWTA Test Operator 3  
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	61.1	66.9	69.3	65.8	kW/m <sup>2</sup>
Average Specific extinction area	46.5	29.8	48.1	41.4	m <sup>2</sup> /kg

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

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	55	41	55	50	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	152.3	143.7	148.3	148.1	kW/m <sup>2</sup>
Average heat at 60 s	96.2	81.2	90.6	89.3	kW/m <sup>2</sup>

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APPROVED SIGNATORY

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

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**Order Number :** 3455941

Average heat at 180 s	97.2	87.8	92.8	92.6	kW/m <sup>2</sup>
Average heat at 300 s	94.3	89.0	90.8	91.4	kW/m <sup>2</sup>
Total heat released	216.6	237.9	245.5	233.3	MJ/m <sup>2</sup>
Average effective heat of combustion	13.4	14.7	15.0	14.4	MJ/kg
Initial thickness	13	13	13	13.0	mm
Initial mass	177.3	177.4	177.6	177.4	g
Mass remaining	46.3	46.3	44.8	45.8	g
Mass percentage pyrolysed	73.9	73.9	74.8	74.2	%
Mass loss	16.2	16.2	16.4	16.3	kg/m <sup>2</sup>
Average rate of mass loss	4.6	4.6	4.6	4.6	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.

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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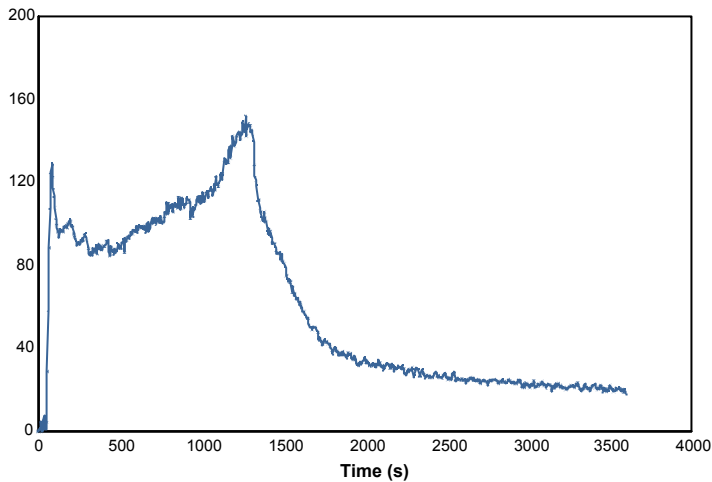
## TEST REPORT

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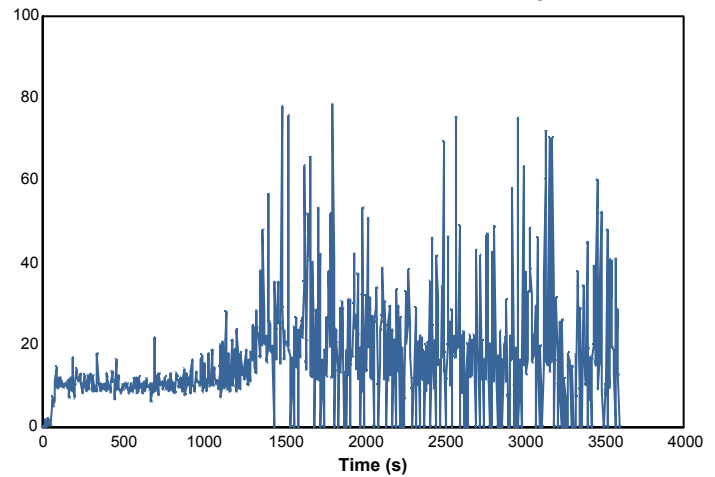
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**Issue Date :** 25/05/2020  
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**Order Number :** 3455941

**Specimen :** 1

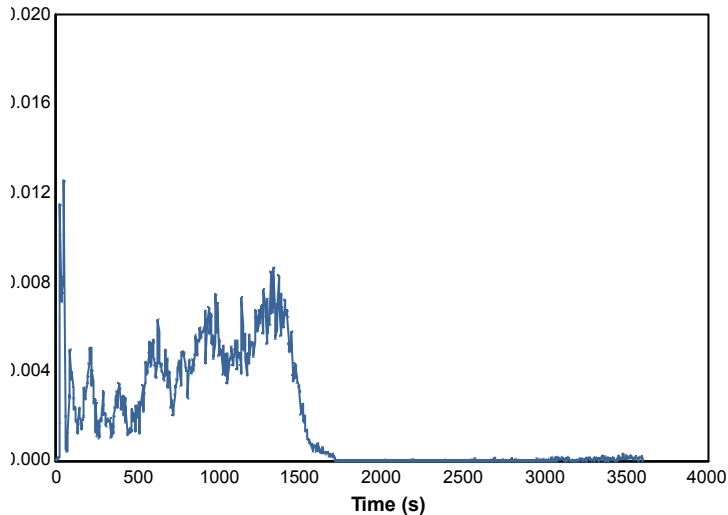
Heat release rate (kW/m<sup>2</sup>)



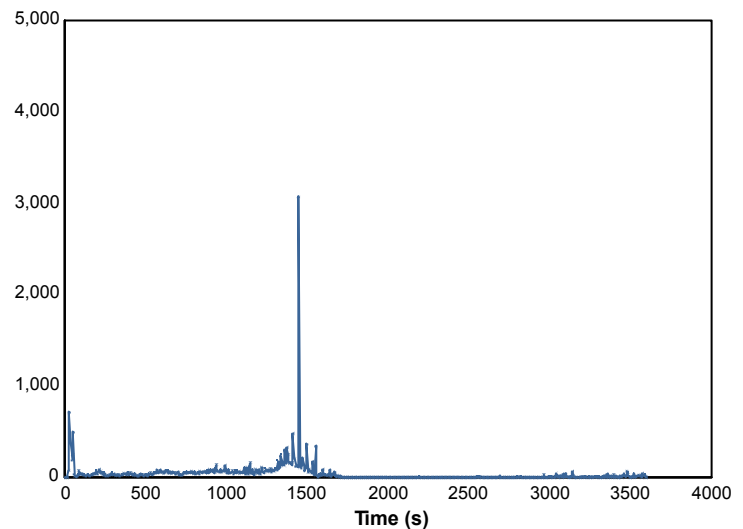
Effective heat of combustion (MJ/kg)



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



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



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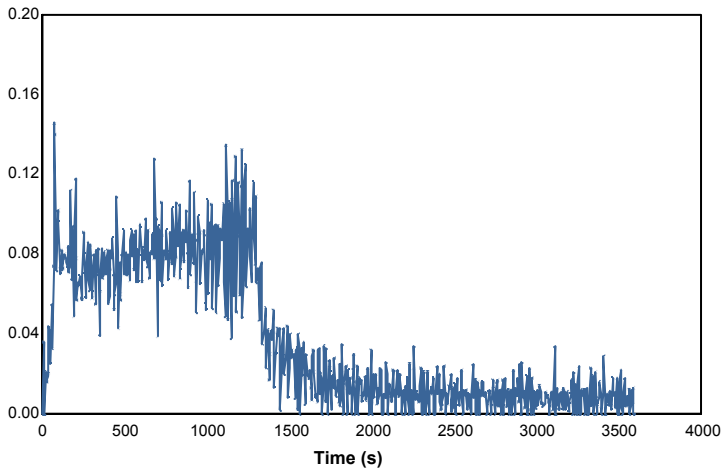
Phone (03) 9371 2400

## TEST REPORT

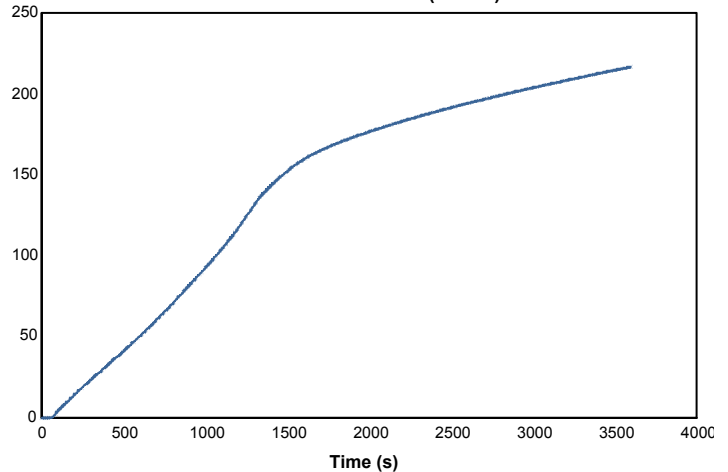
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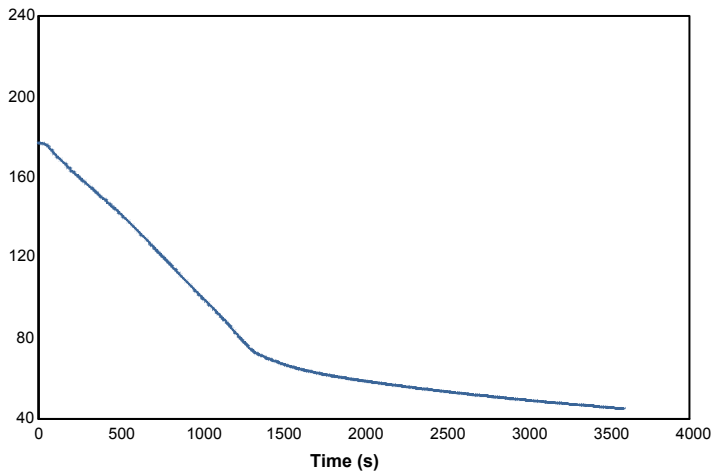
Mass loss rate (g/s)



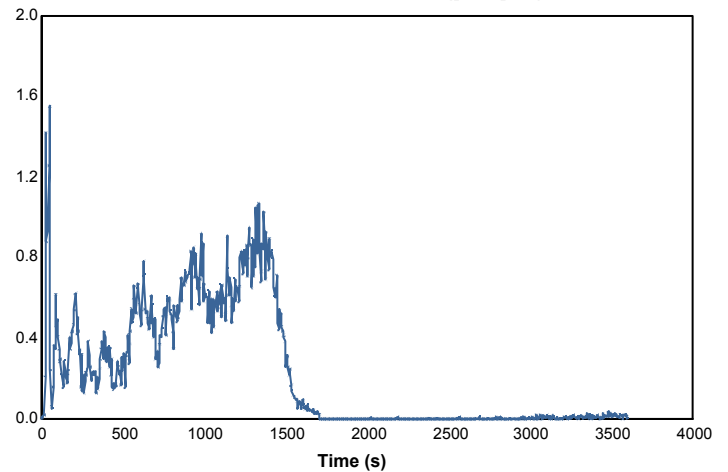
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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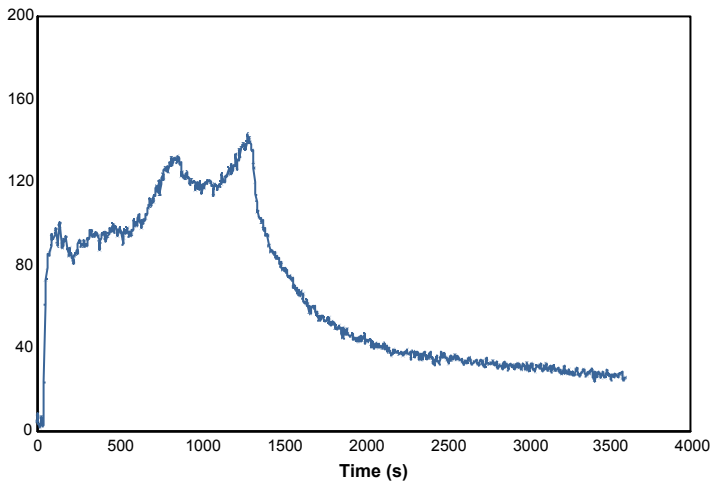
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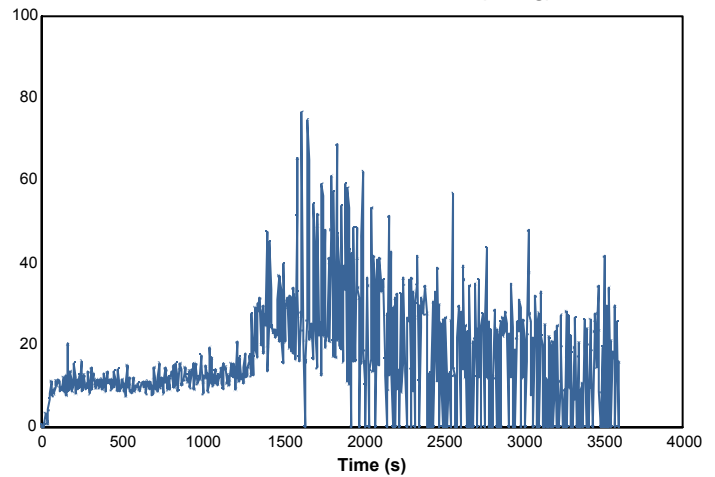
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**Specimen :** 2

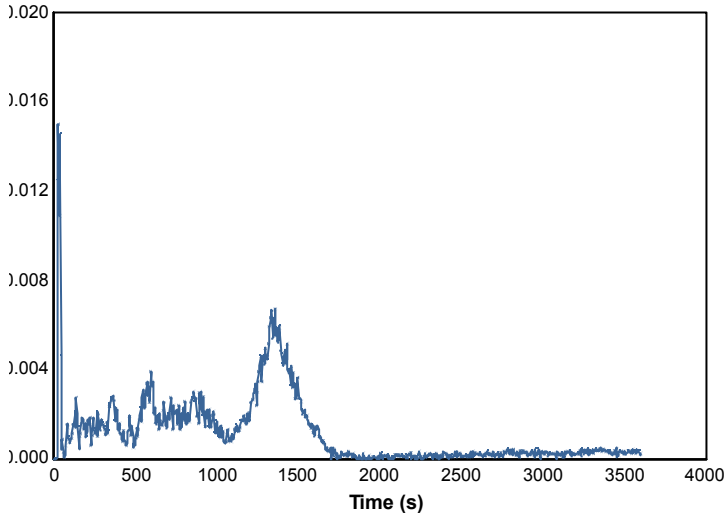
Heat release rate (kW/m<sup>2</sup>)



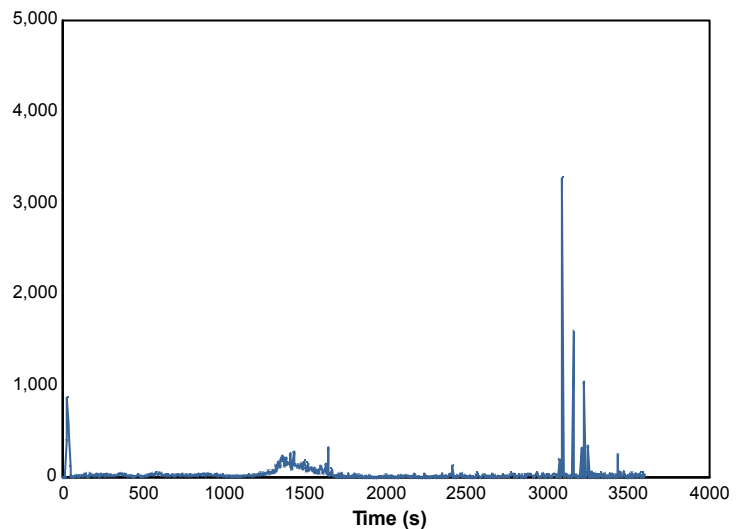
Effective heat of combustion (MJ/kg)



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



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



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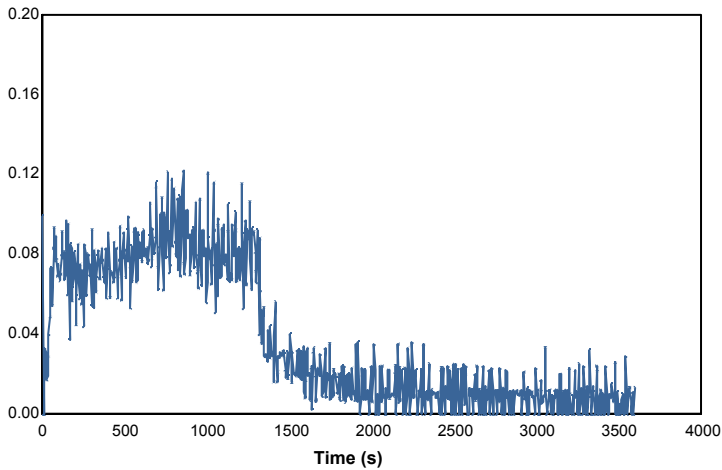
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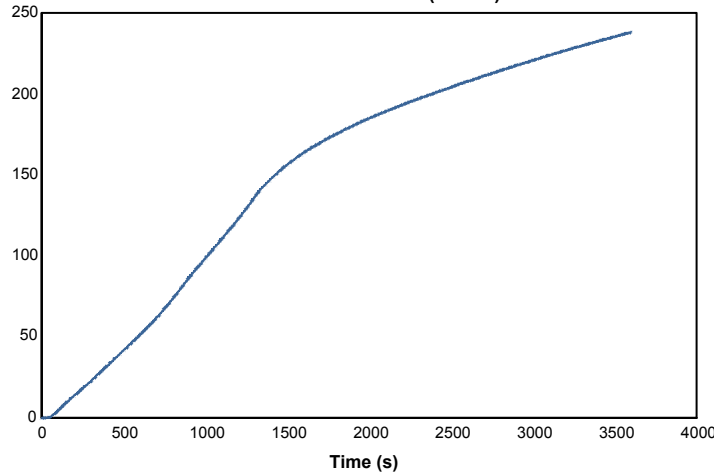
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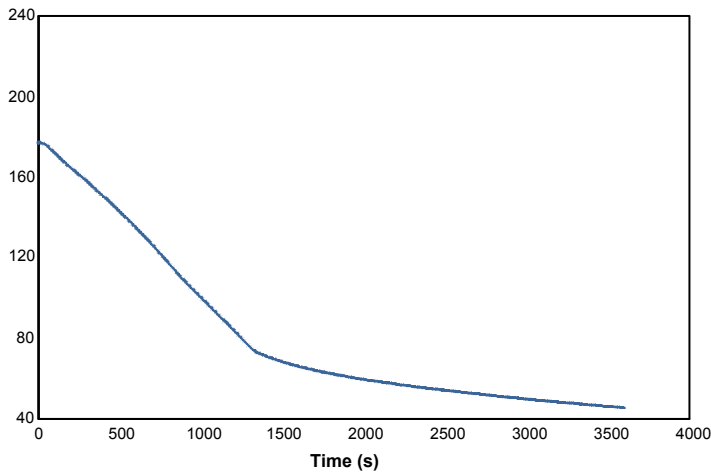
Mass loss rate (g/s)



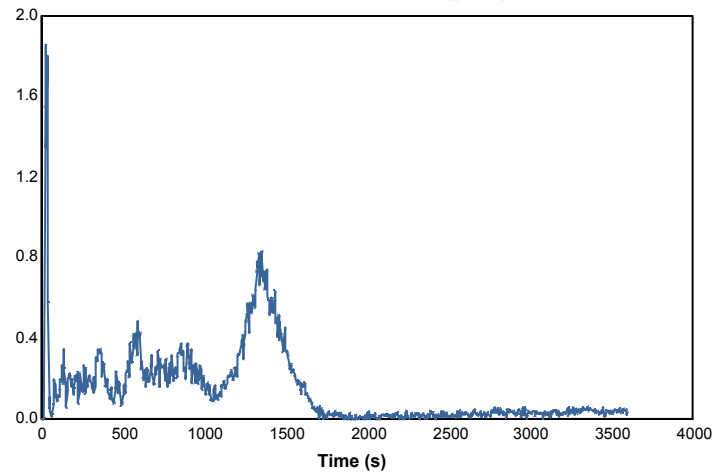
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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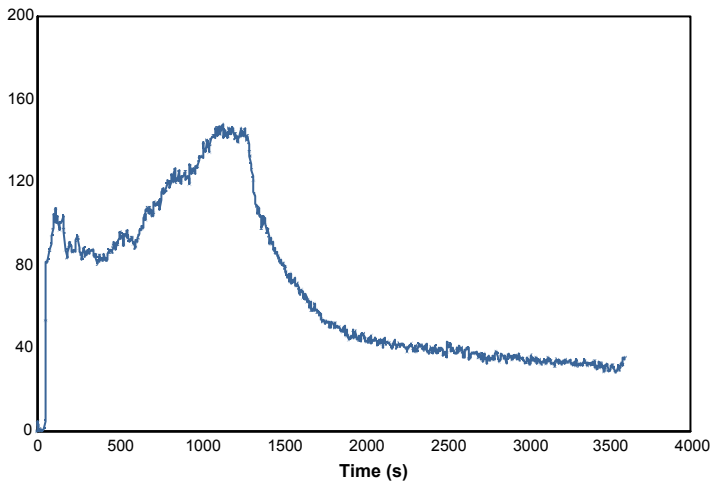
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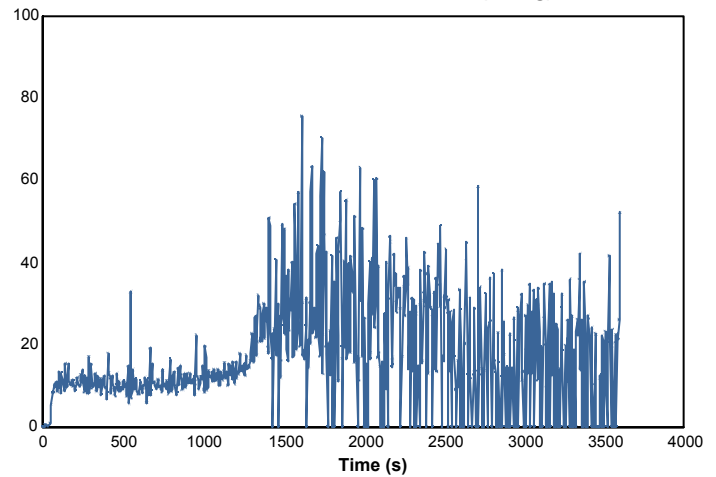
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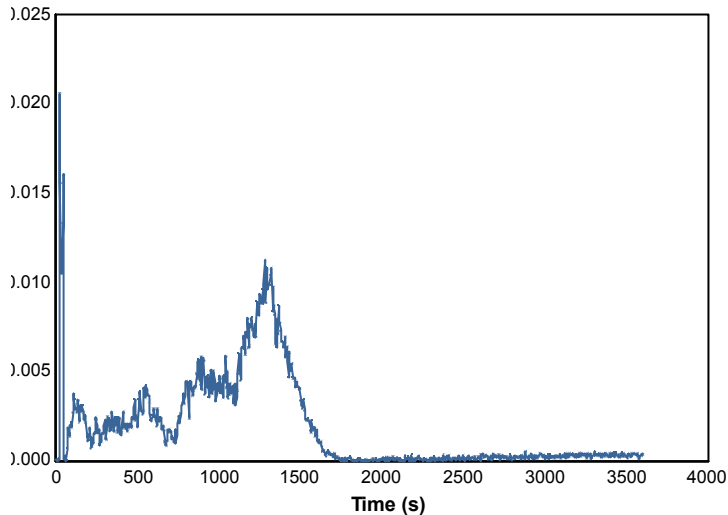
Heat release rate (kW/m<sup>2</sup>)



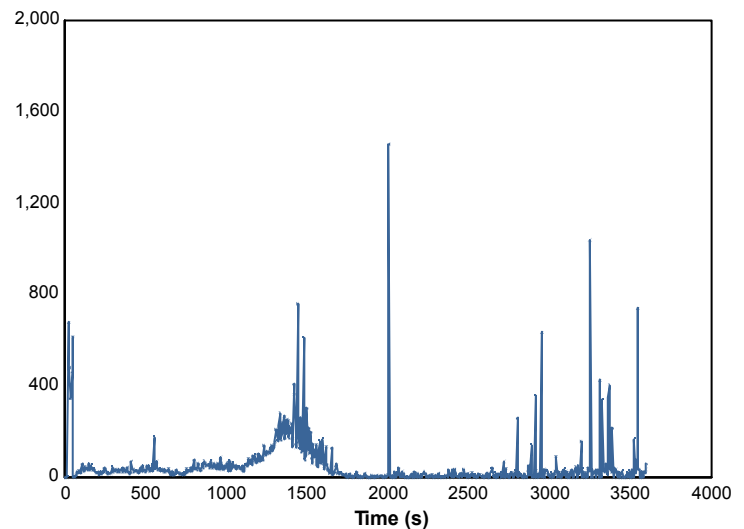
Effective heat of combustion (MJ/kg)



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



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



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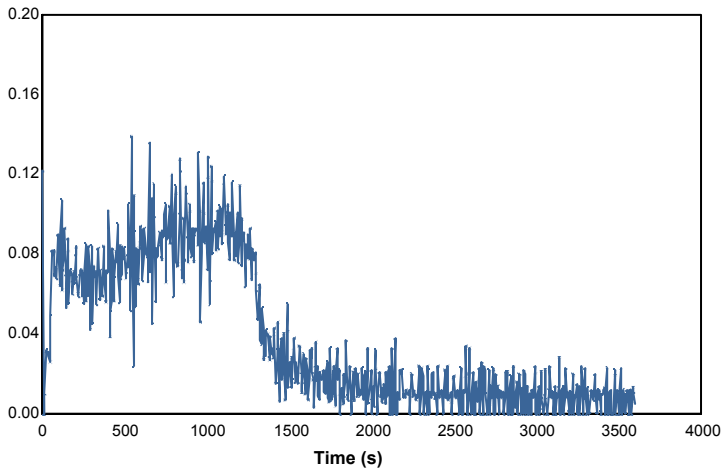
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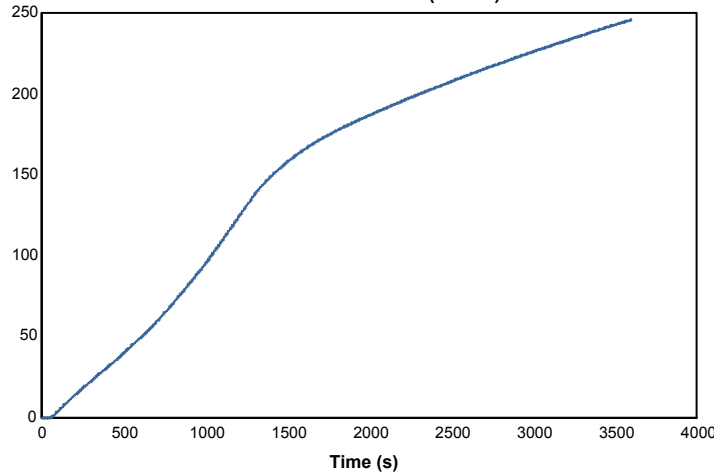
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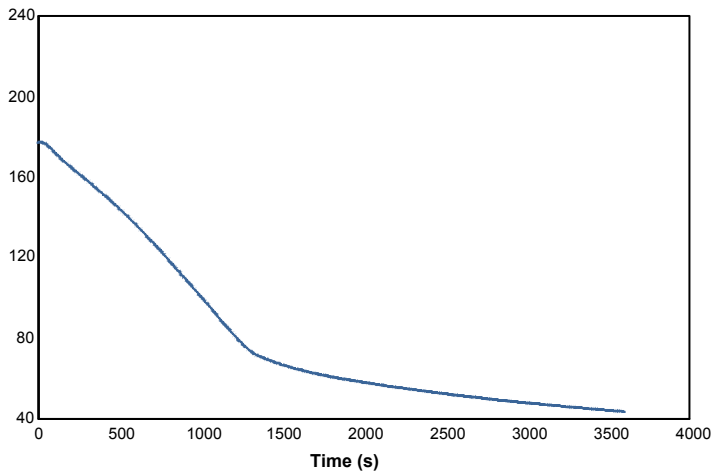
Mass loss rate (g/s)



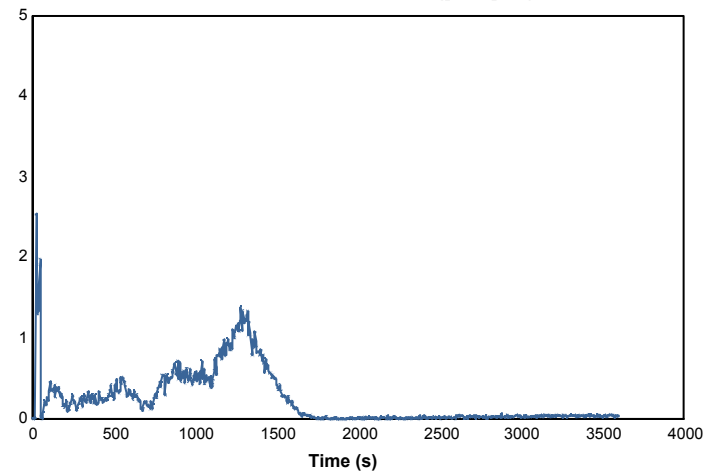
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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