

# 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 Fax (03) 9371 2499

## 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 :** 19-002879  
**Issue Date :** 13/08/2019  
**Print Date :** 19/08/2019

**Sponsor Product** Clients Ref : Trade Essentials V-Lite  
Rigid Panel  
Colour : White  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 560kg/m3  
Nominal Thickness : 16mm

Product Group Number Classification : 3  
Average Specific Extinction Area : 631.0 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

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## TEST REPORT

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

**Test Number :** 19-002879  
**Issue Date :** 09/08/2019  
**Print Date :** 13/08/2019  
**Order Number :** 3455941

**Sample Description** Clients Ref : Trade Essentials V-Lite  
Rigid Panel  
Colour : White  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 560kg/m3  
Nominal Thickness : 16mm

### AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 09/08/2019  
Operator AWTA Test Operator 2  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	99.7	78.4	107.3	95.1	kW/m <sup>2</sup>
Average Specific extinction area	628.6	644.6	619.7	631.0	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	41	39	40	40	sec
Test duration	832	945	697	825	sec
Peak heat release after ignition	177.6	176.0	158.6	170.7	kW/m <sup>2</sup>
Average heat at 60 s	133.1	128.4	129.1	130.2	kW/m <sup>2</sup>
Average heat at 180 s	147.8	140.7	141.5	143.3	kW/m <sup>2</sup>
Average heat at 300 s	143.7	134.2	138.0	138.6	kW/m <sup>2</sup>

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: Accreditation No. 985  
: Accreditation No. 1356



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APPROVED SIGNATORY

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

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**Test Number :** 19-002879  
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Total heat released	78.8	71.0	70.7	73.5	MJ/m <sup>2</sup>
Average effective heat of combustion	12.9	11.6	11.4	12.0	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	91.6	91.0	92.7	91.8	g
Mass at sustained flaming	89.8	90.0	91.2	90.3	g
Mass remaining	41.8	40.6	42.5	41.6	g
Mass percentage pyrolysed	54.3	55.4	54.1	54.6	%
Mass loss	6.1	6.2	6.2	6.2	kg/m <sup>2</sup>
Average rate of mass loss	7.7	6.8	9.4	8.0	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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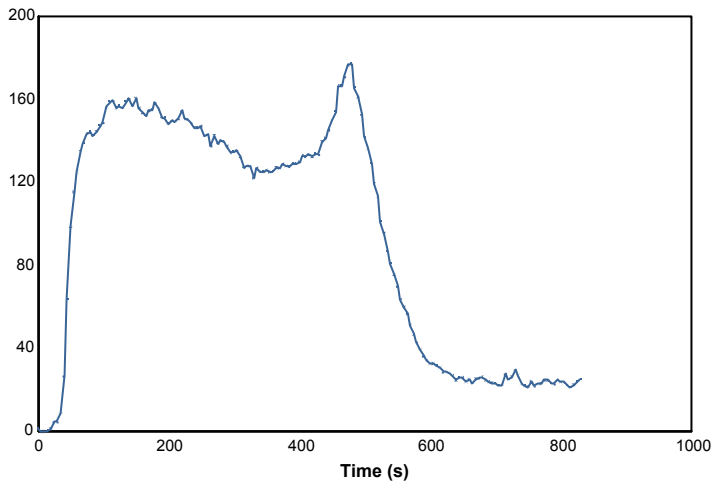
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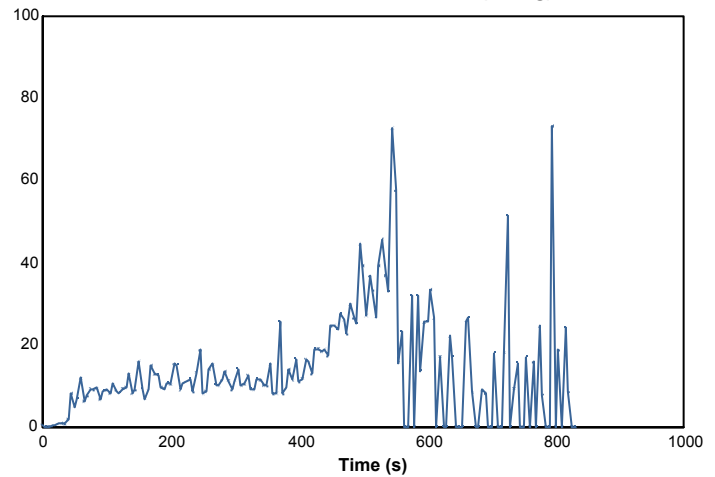
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**Order Number :** 3455941

**Specimen :** 1

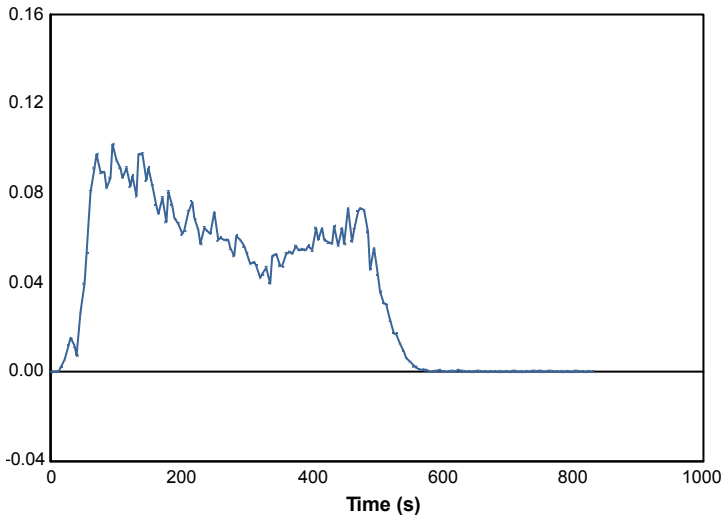
Heat release rate (kW/m<sup>2</sup>)



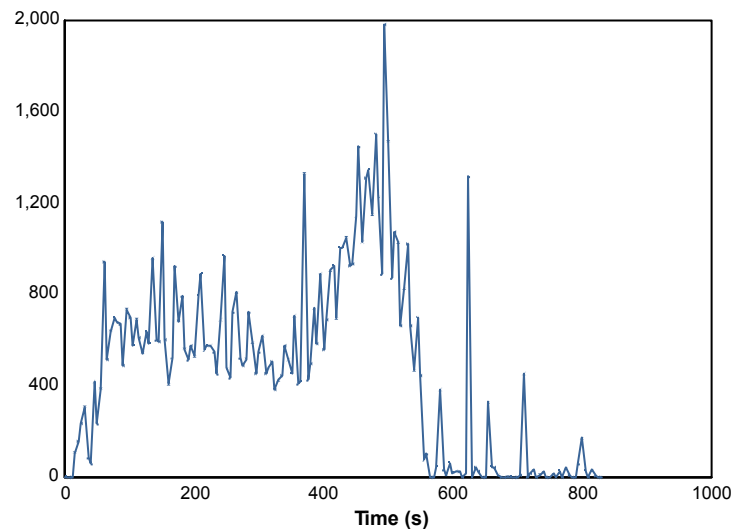
Effective heat of combustion (MJ/kg)



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



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



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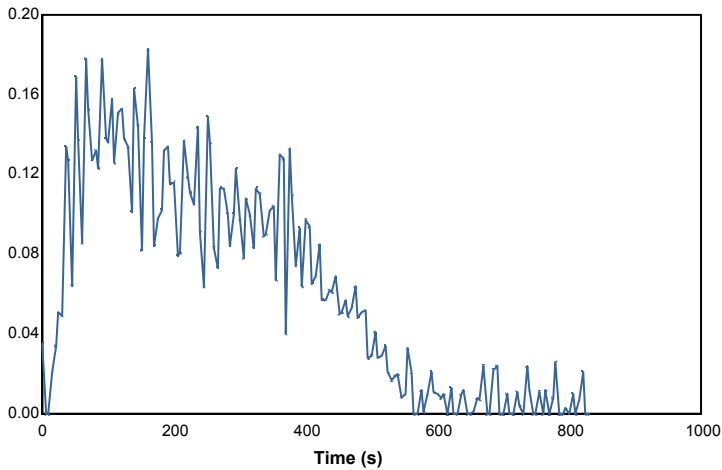
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

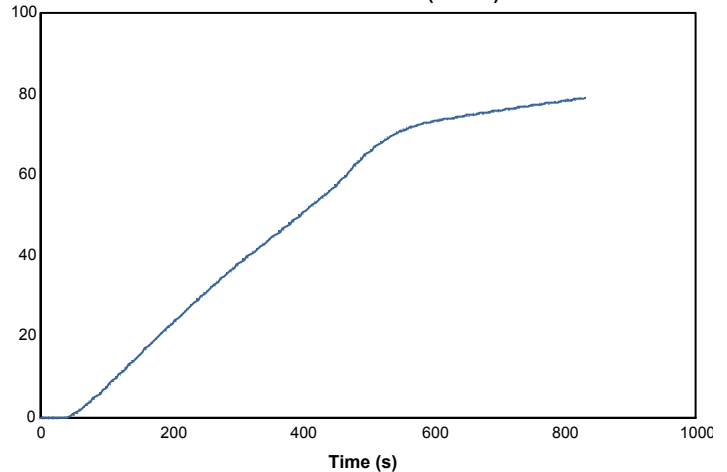
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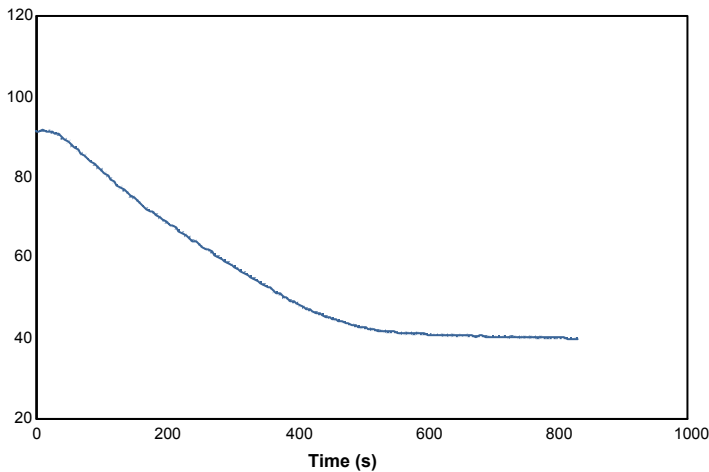
Mass loss rate (g/s)



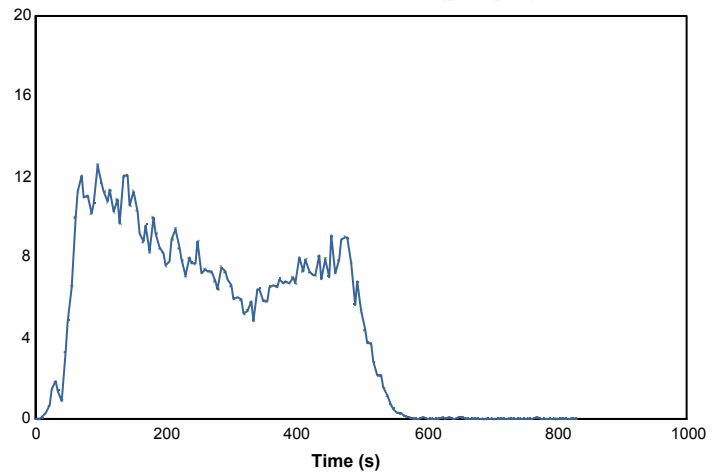
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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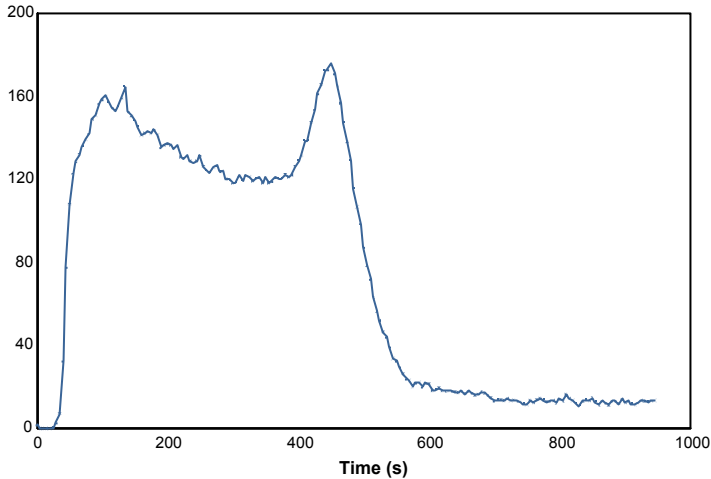
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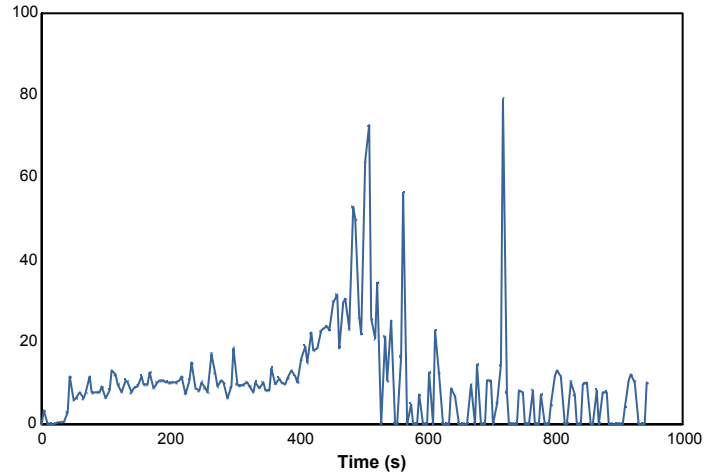
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**Specimen :** 2

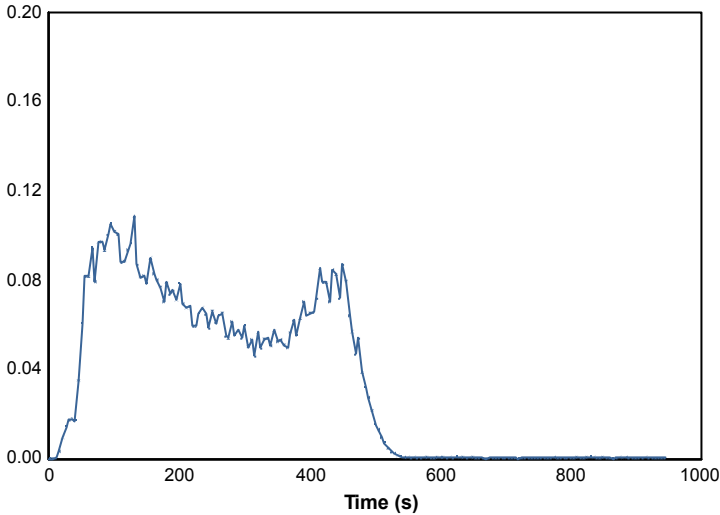
Heat release rate (kW/m<sup>2</sup>)



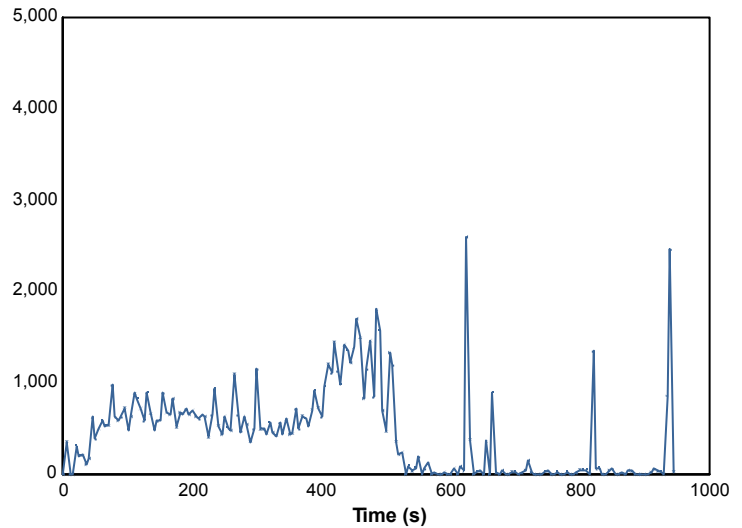
Effective heat of combustion (MJ/kg)



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



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



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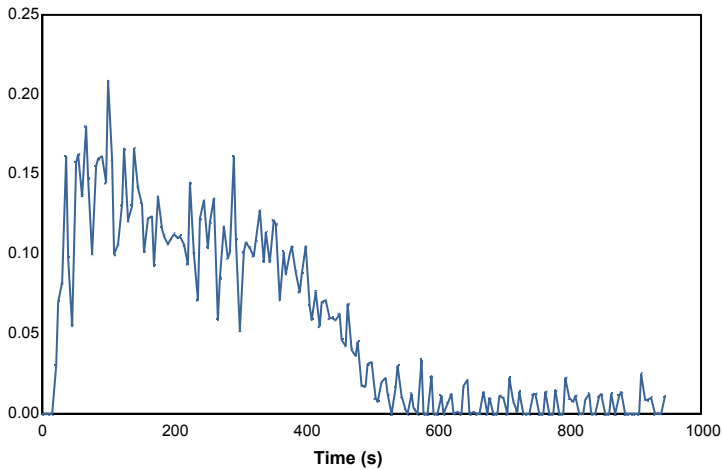
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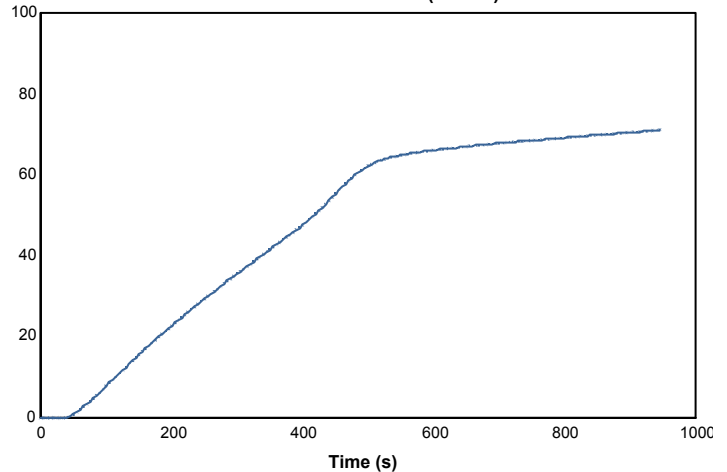
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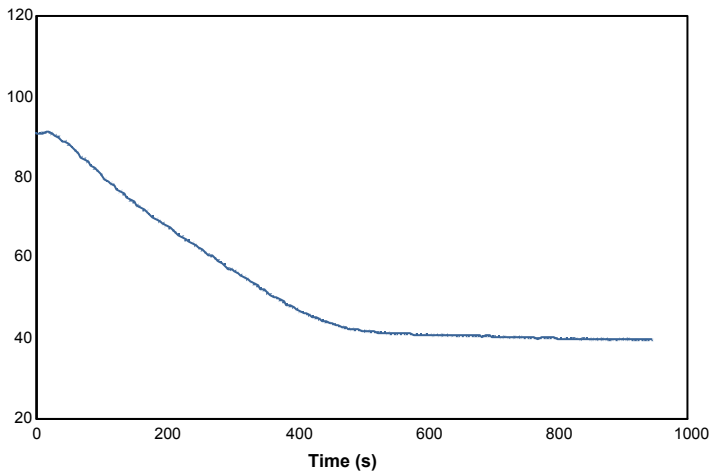
Mass loss rate (g/s)



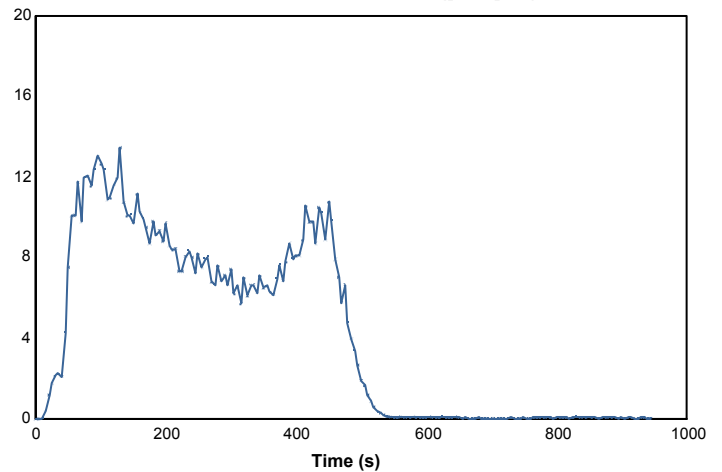
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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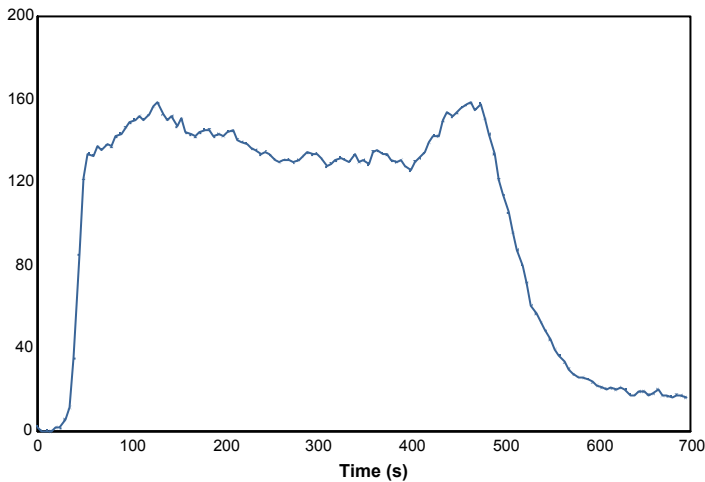
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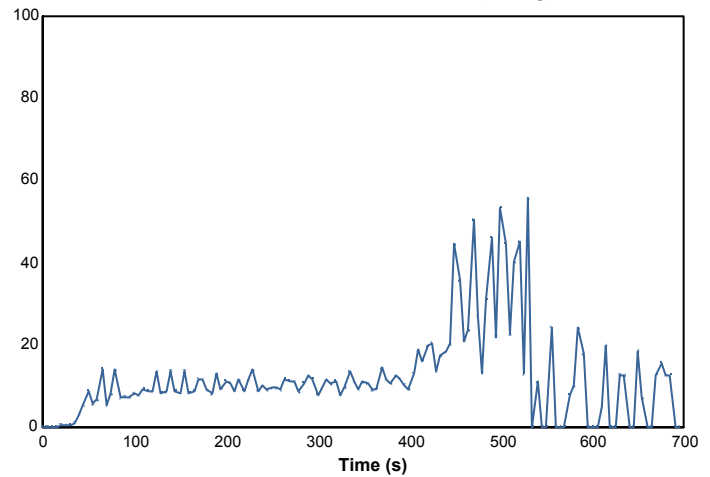
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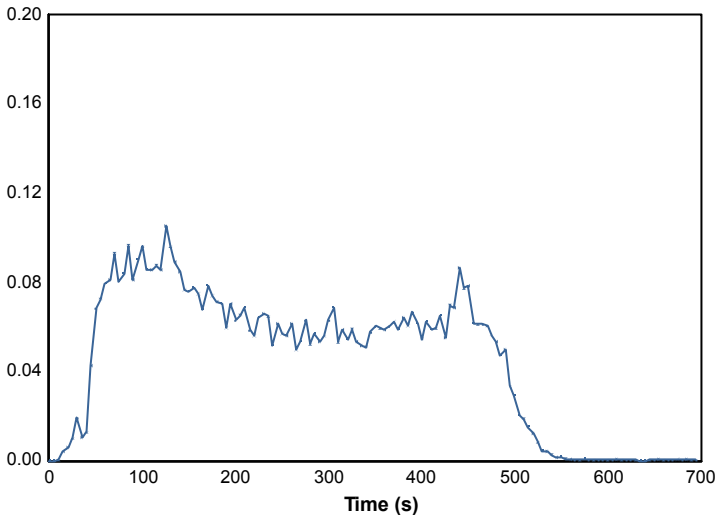
Heat release rate (kW/m<sup>2</sup>)



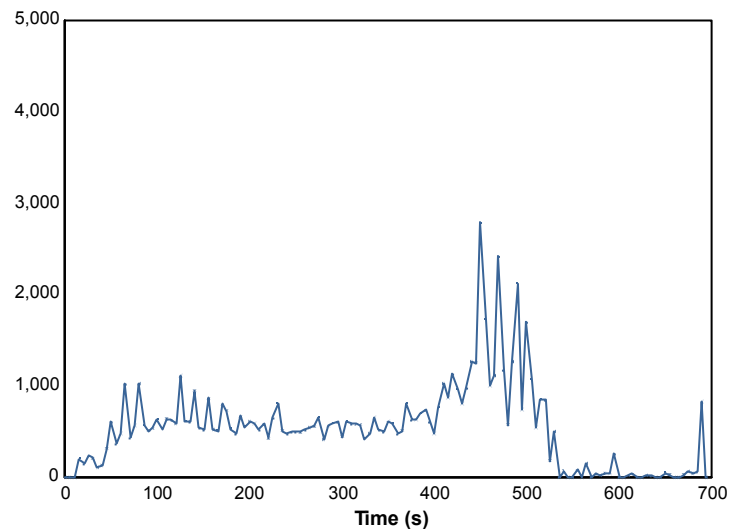
Effective heat of combustion (MJ/kg)



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



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



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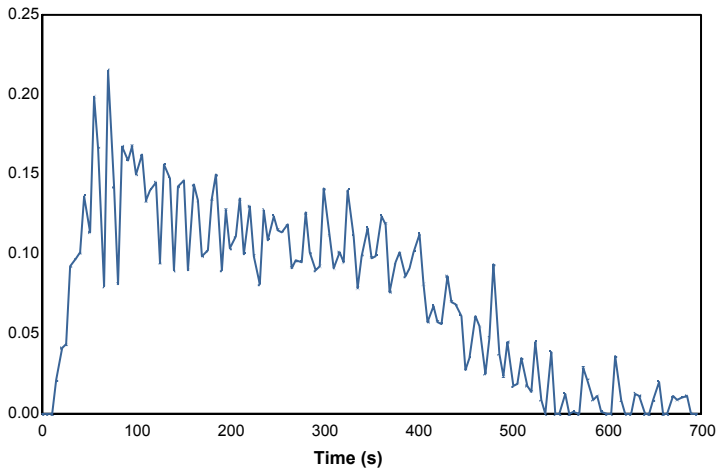
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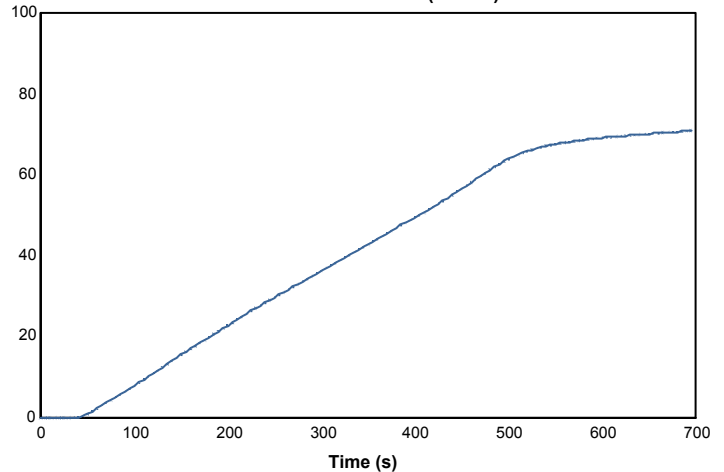
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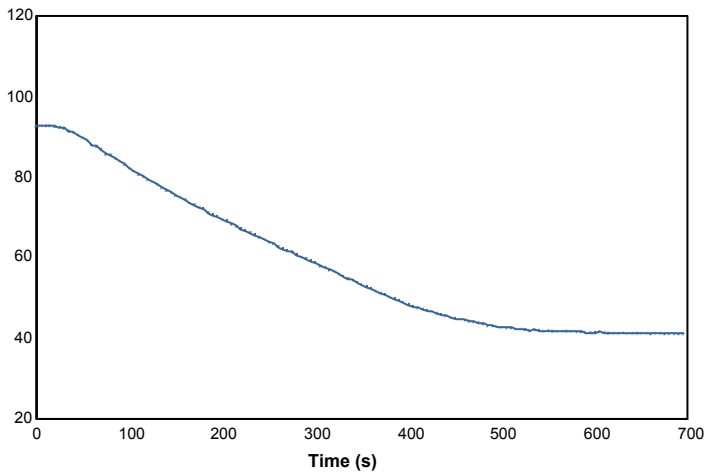
Mass loss rate (g/s)



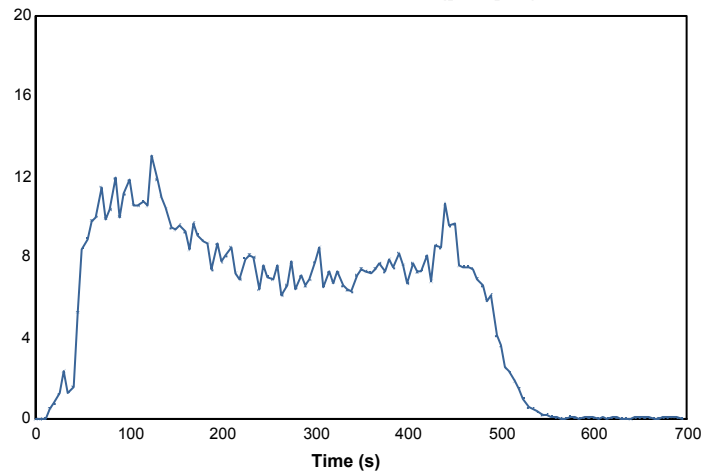
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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