

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 : 19-002876
Issue Date : 9/08/2019
Print Date : 9/08/2019

Sponsor Product Clients Ref : Laminex Structural MR EO MDF
MDF core with melamine finish both sides
Colour : Grey
Nominal Composition : MDF?Melamine
Nominal Mass per Unit Area/Density : 800kg/m3
Nominal Thickness : 18mm

Product Group Number Classification : 3
Average Specific Extinction Area : 26.6 m²/kg



Fiona McDonald
Testing Technologist

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TEST REPORT

Client : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 19-002876
Issue Date : 08/08/2019
Print Date : 9/08/2019
Order Number : 3455941

Sample Description Clients Ref : Laminex Structural MR EO MDF
MDF core with melamine finish both sides
Colour : Grey
Nominal Composition : MDF?Melamine
Nominal Mass per Unit Area/Density : 800kg/m3
Nominal Thickness : 18mm

AS/NZS 3837-1998

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

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	57.7	68.5	63.2	63.1	kW/m ²
Average Specific extinction area	22.5	30.0	27.4	26.6	m ² /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 ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	76	51	67	65	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	173.1	165.8	170.3	169.7	kW/m ²
Average heat at 60 s	122.3	110.0	128.0	120.1	kW/m ²
Average heat at 180 s	147.4	141.3	147.6	145.4	kW/m ²
Average heat at 300 s	137.0	137.5	138.5	137.6	kW/m ²

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- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

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Total heat released	203.1	242.9	222.9	223.0	MJ/m ²
Average effective heat of combustion	13.6	16.0	14.8	14.8	MJ/kg
Initial thickness	18	18	18	18.0	mm
Initial mass	144.6	143.3	143.7	143.9	g
Mass at sustained flaming	143.5	142.9	143.1	143.2	g
Mass remaining	23.9	20.3	21.6	21.9	g
Mass percentage pyrolysed	83.5	85.8	85.0	84.8	%
Mass loss	14.9	15.2	15.1	15.1	kg/m ²
Average rate of mass loss	4.2	4.3	4.3	4.3	g/m ² .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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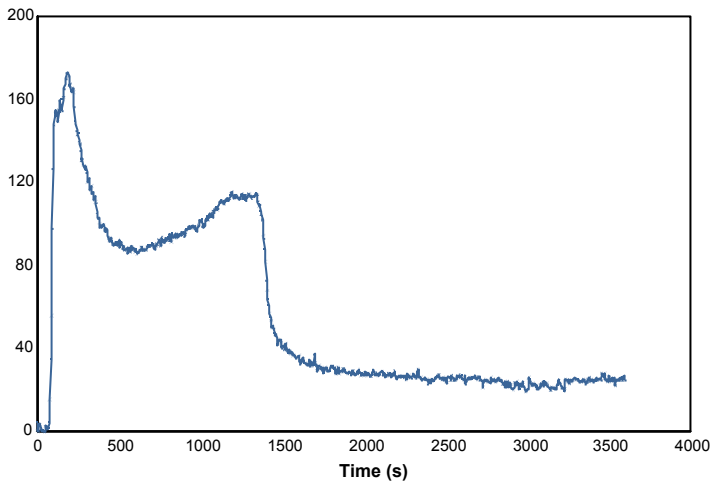
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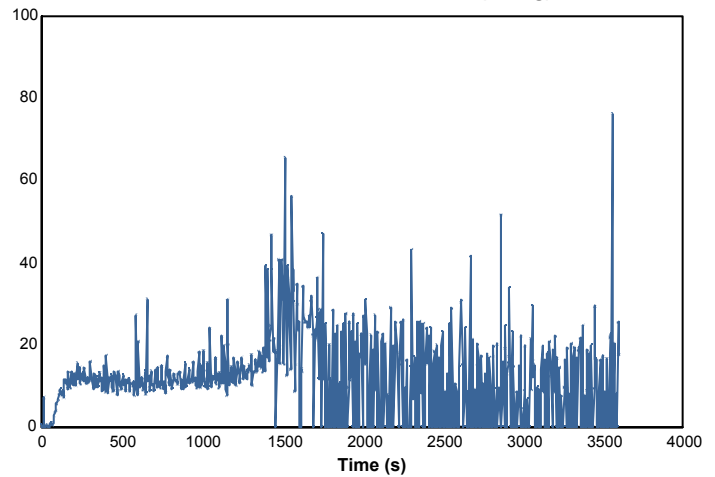
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Issue Date : 08/08/2019
Print Date : 9/08/2019
Order Number : 3455941

Specimen : 1

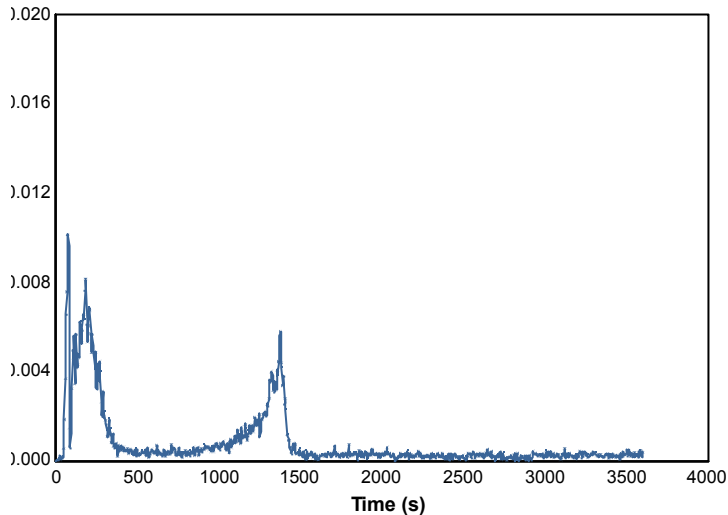
Heat release rate (kW/m²)



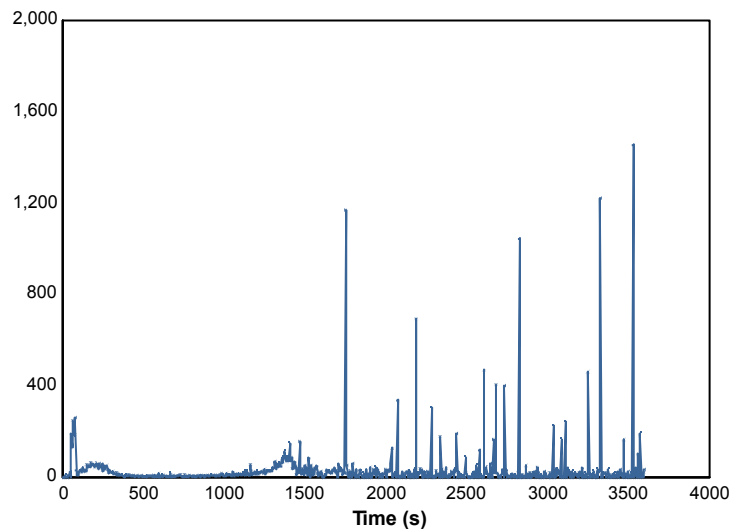
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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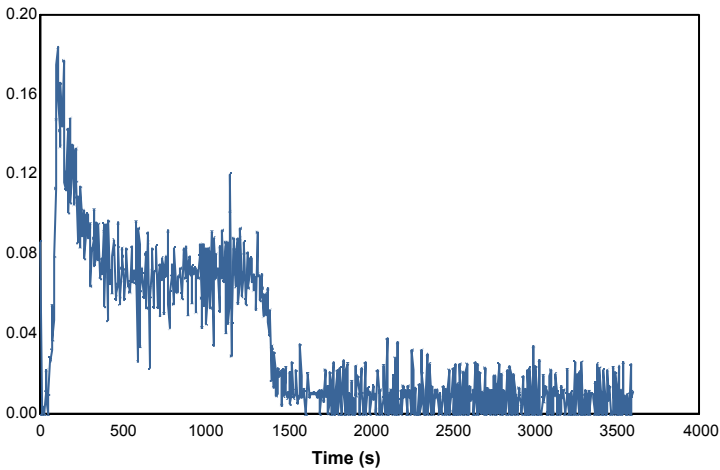
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TEST REPORT

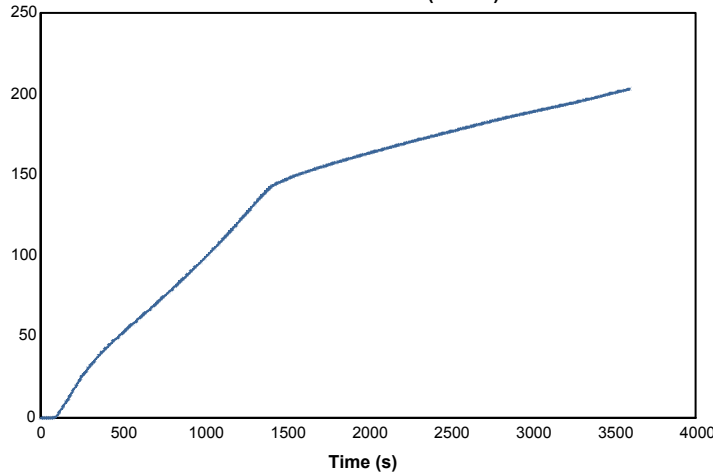
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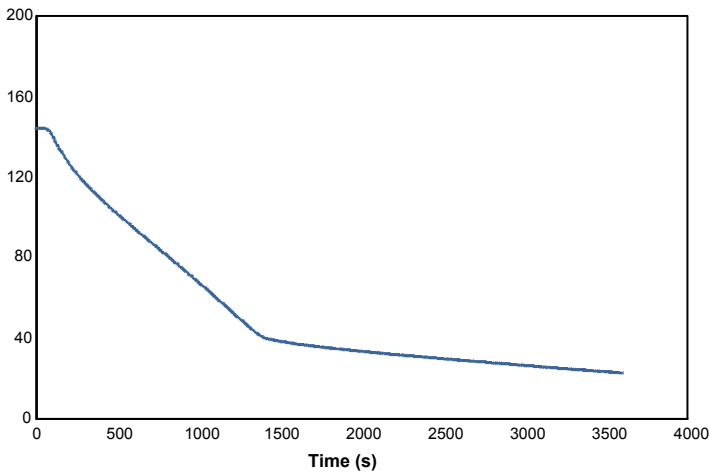
Mass loss rate (g/s)



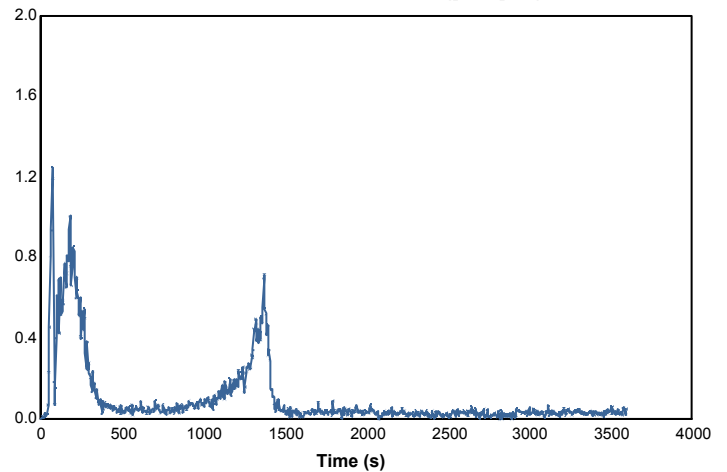
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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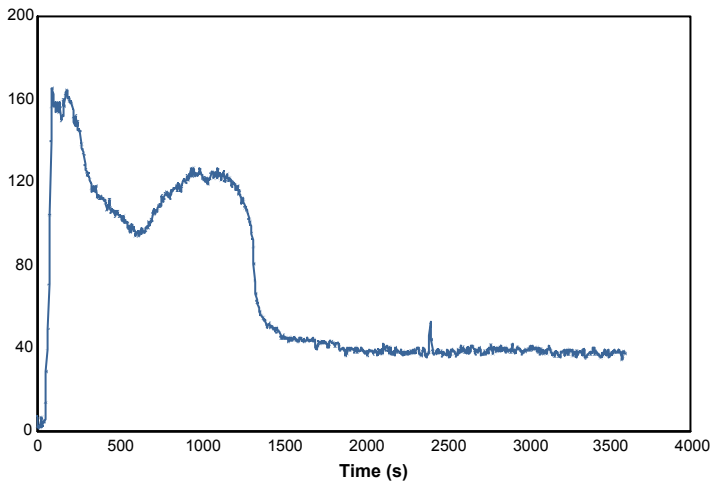
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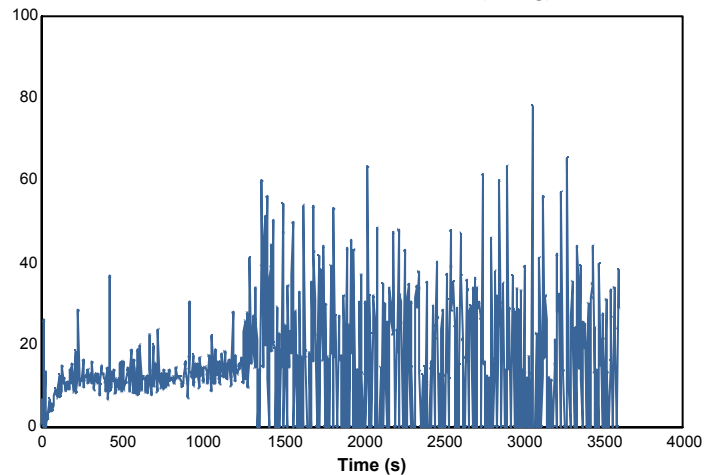
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Specimen : 2

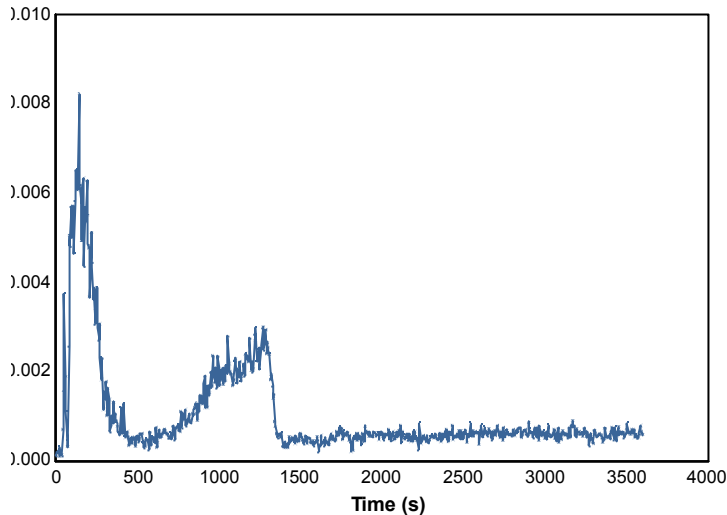
Heat release rate (kW/m²)



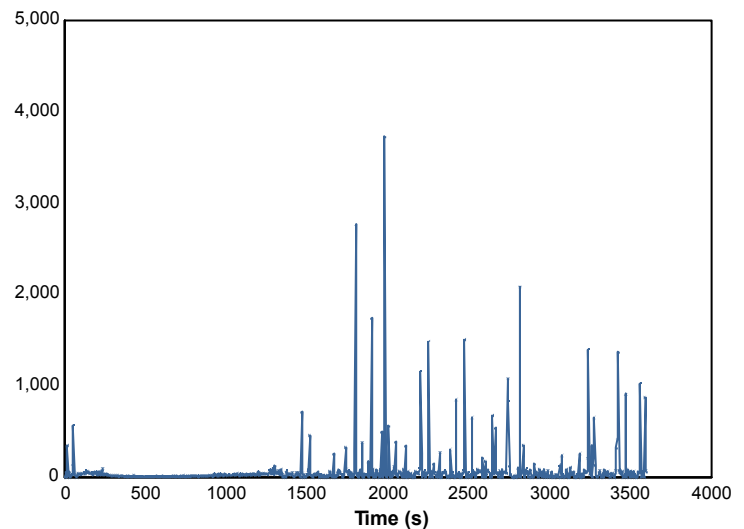
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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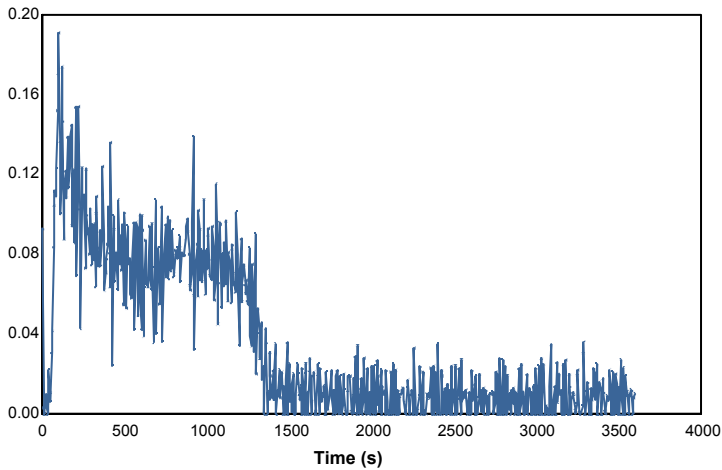
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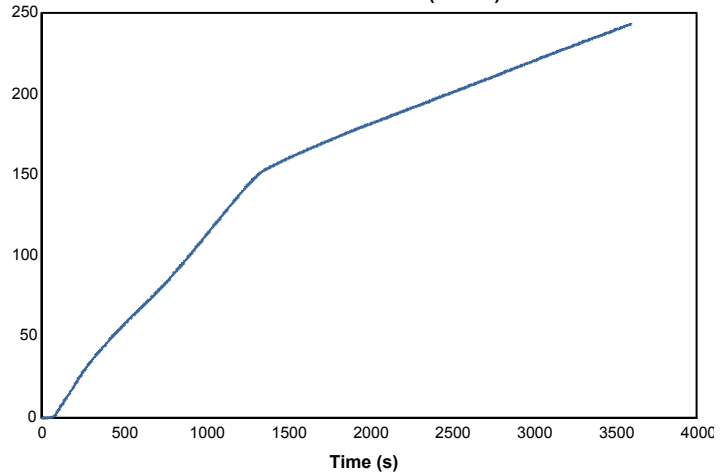
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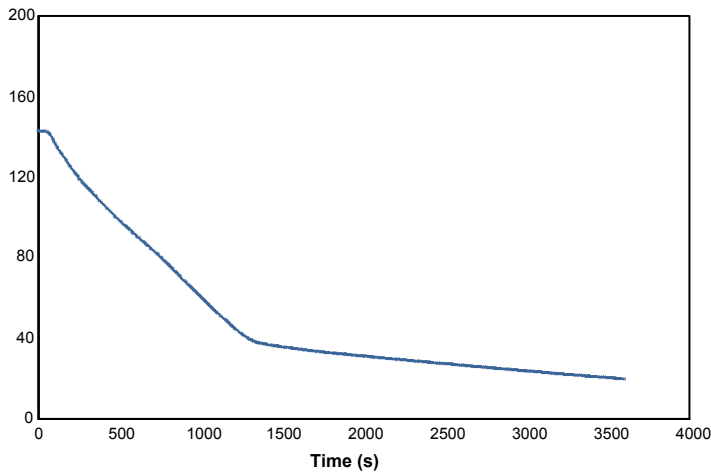
Mass loss rate (g/s)



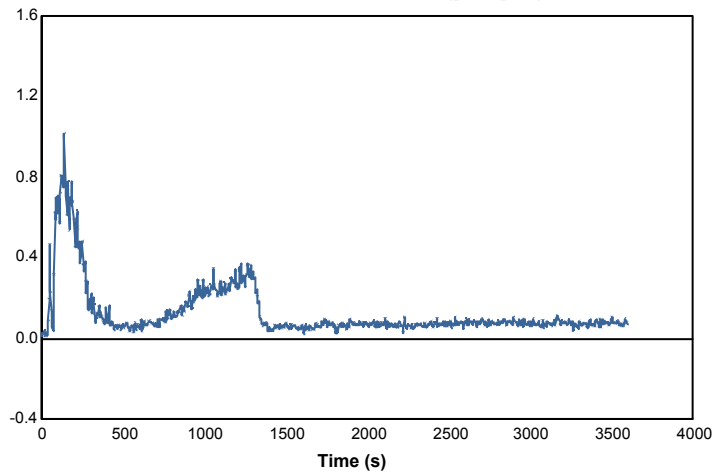
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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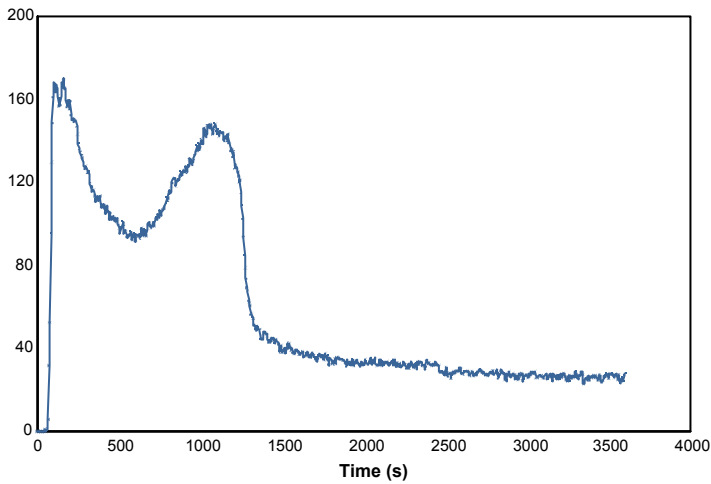
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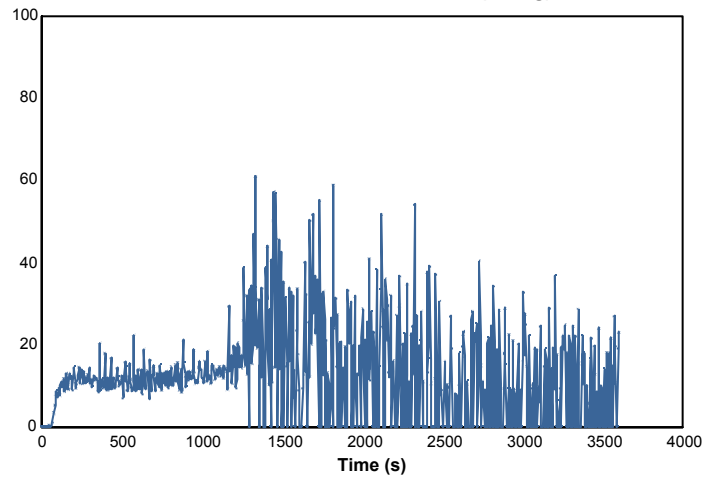
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Specimen : 3

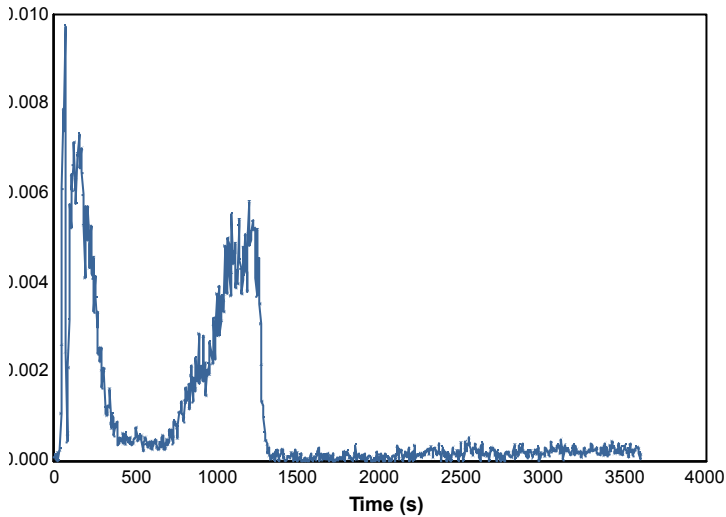
Heat release rate (kW/m²)



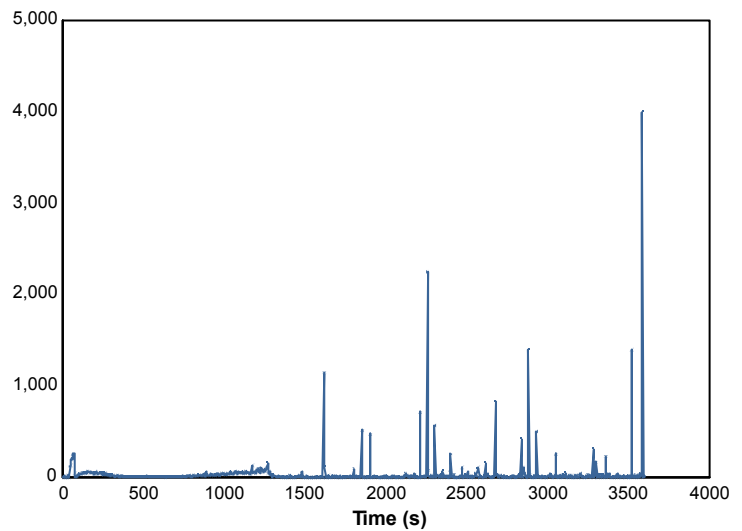
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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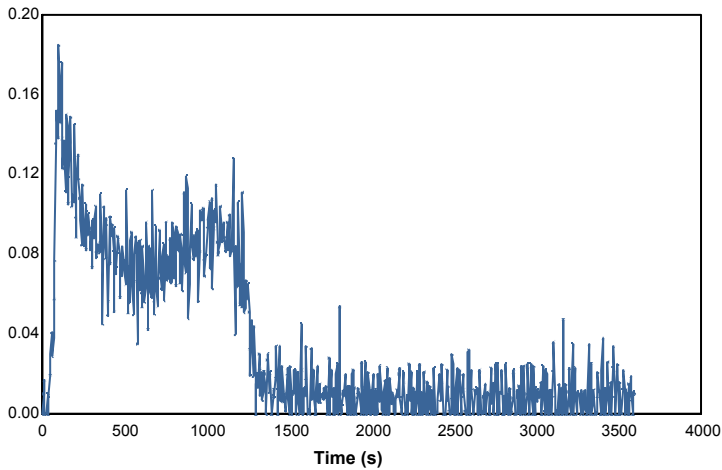
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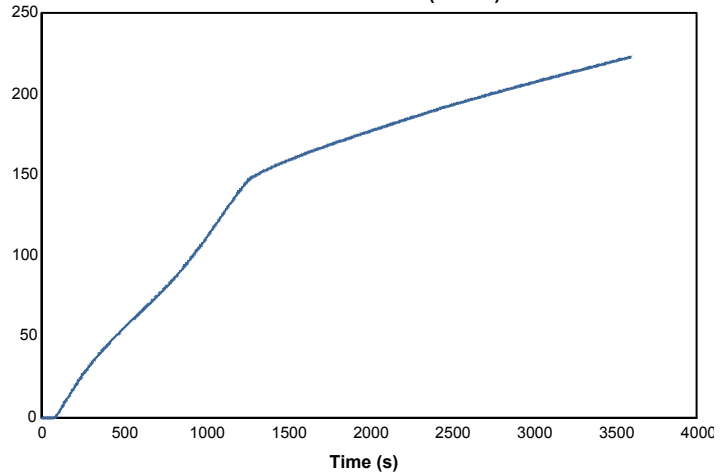
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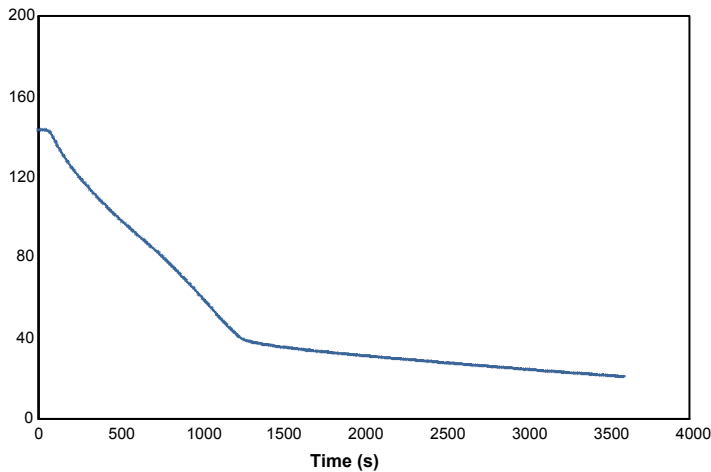
Mass loss rate (g/s)



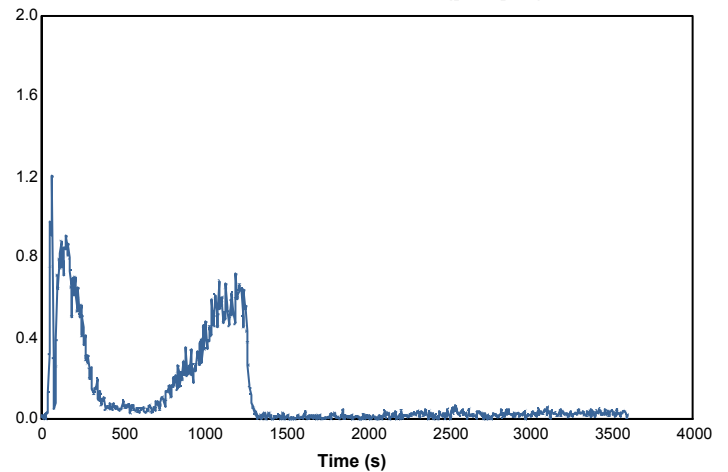
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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