

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 : 22-001162
Issue Date : 28/04/2022
Print Date : 29/04/2022
Order Number : 3455941

Sample Description Clients Ref : "Raw MDF #29170"
Rigid Panel
Colour : Natural
Nominal Composition : MDF
Nominal Thickness : Approx: 16mm



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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 28-04-2022
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	63.5	70.5	72.3	68.7	kW/m ²
Average Specific extinction area	38.0	36.2	25.3	33.2	m ² /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 ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	38	39	40	39	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	230.2	221.4	210.5	220.7	kW/m ²
Average heat at 60 s	168.0	170.8	169.5	169.4	kW/m ²
Average heat at 180 s	156.5	159.7	162.0	159.4	kW/m ²
Average heat at 300 s	142.1	144.7	146.5	144.5	kW/m ²
Total heat released	226.0	251.0	257.2	244.7	MJ/m ²
Average effective heat of combustion	17.4	19.3	19.5	18.8	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	115.2	114.4	115.9	115.2	g
Mass remaining	9.9	9.3	9.2	9.4	g
Mass percentage pyrolysed	91.4	91.9	92.1	91.8	%

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Mass loss	13.0	13.0	13.2	13.1	kg/m ²
Average rate of mass loss	3.6	3.6	3.7	3.7	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.

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

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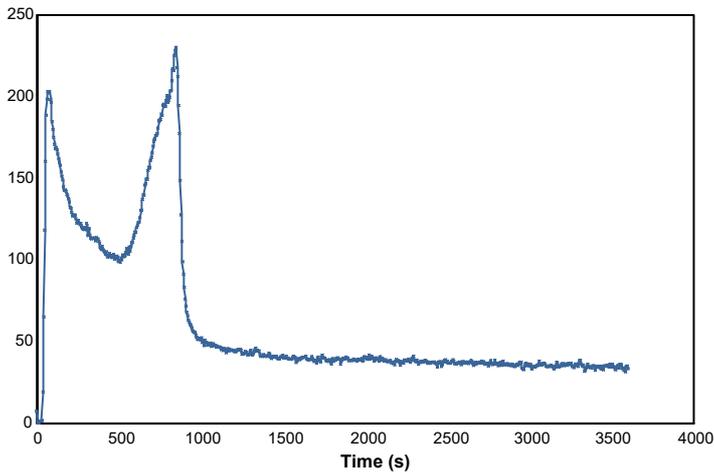
TEST REPORT

Client : The Laminex Group
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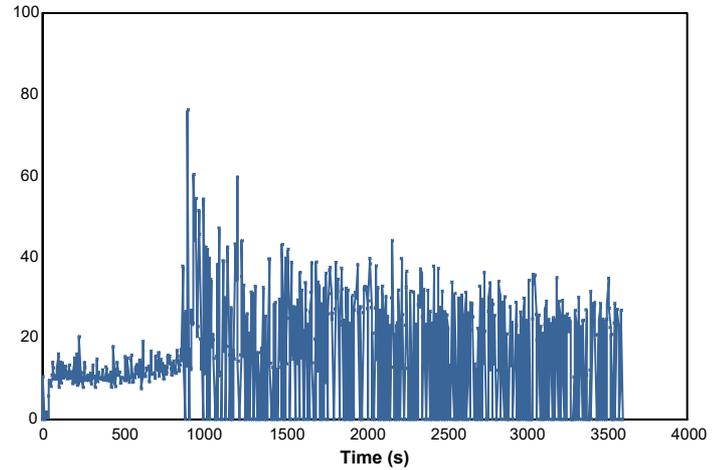
Test Number : 22-001162
Issue Date : 28/04/2022
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Specimen : 1

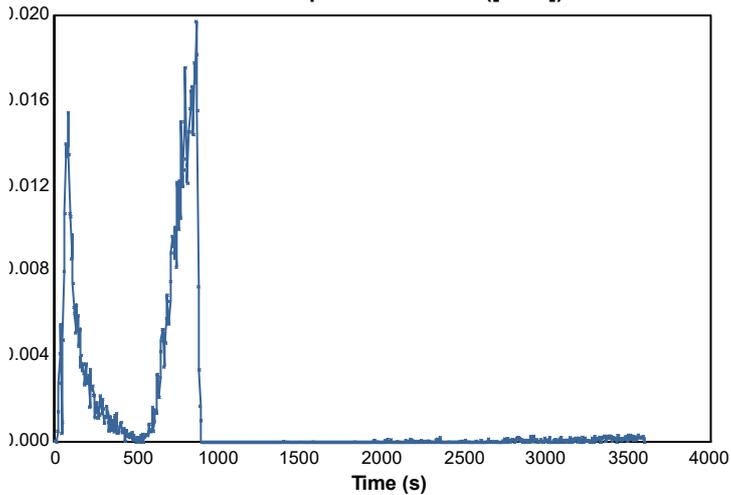
Heat release rate (kW/m²)



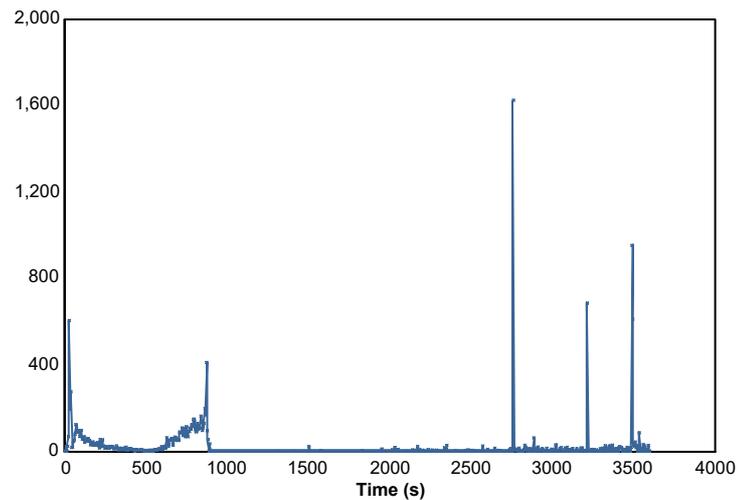
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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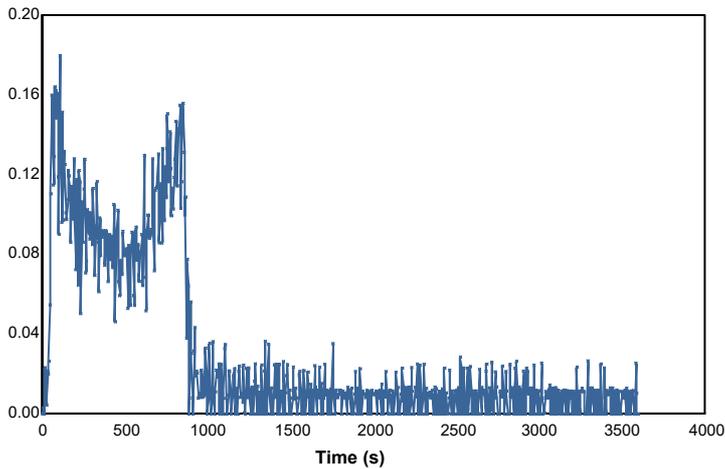
Phone (03) 9371 2400

TEST REPORT

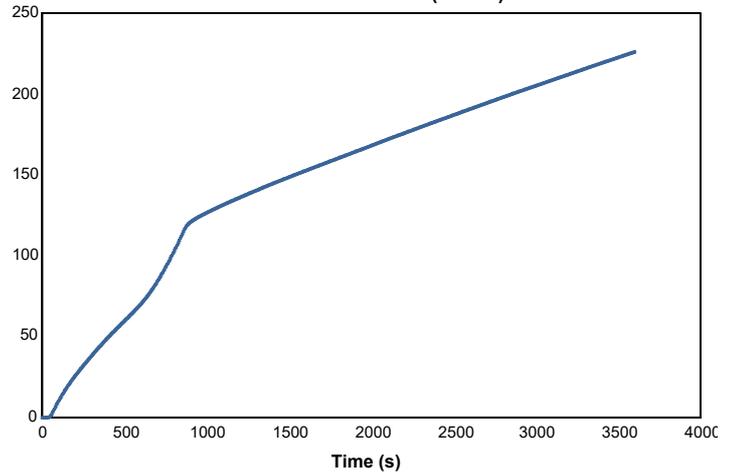
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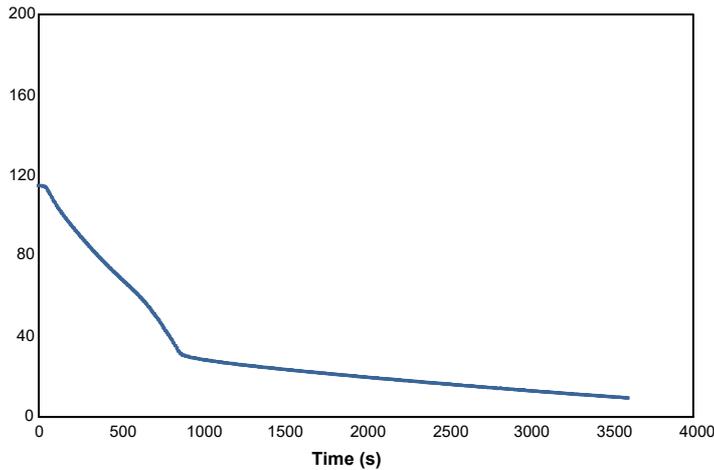
Mass loss rate (g/s)



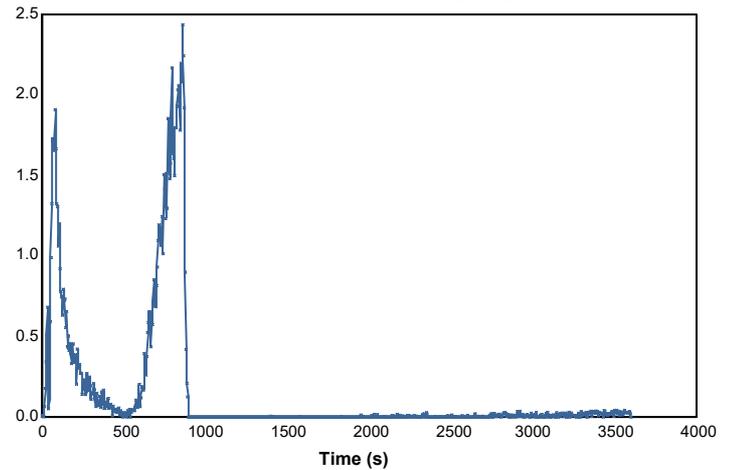
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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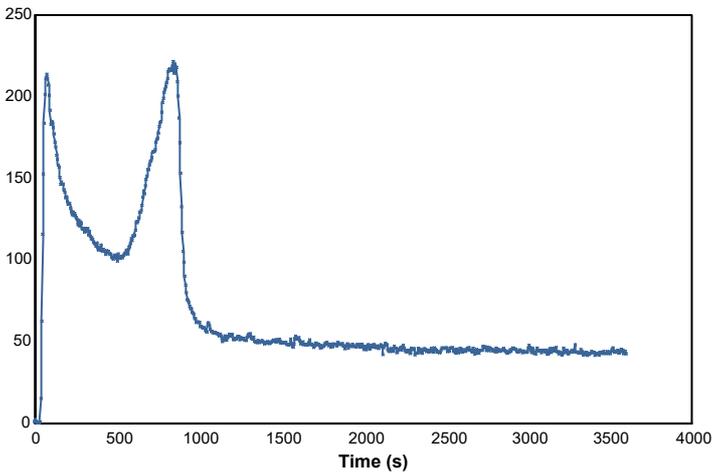
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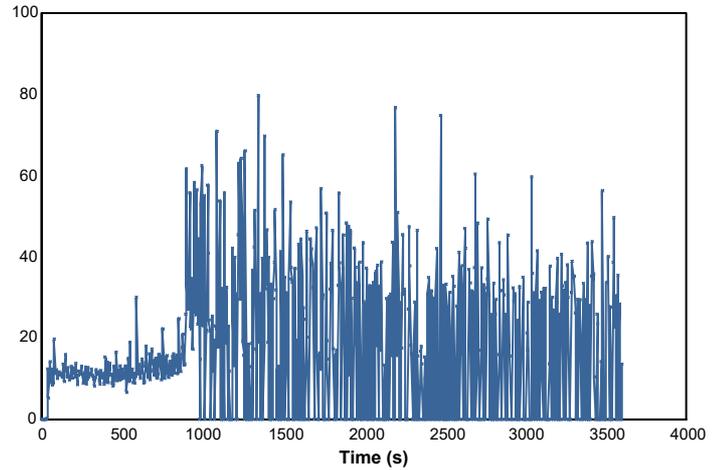
Test Number : 22-001162
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Specimen : 2

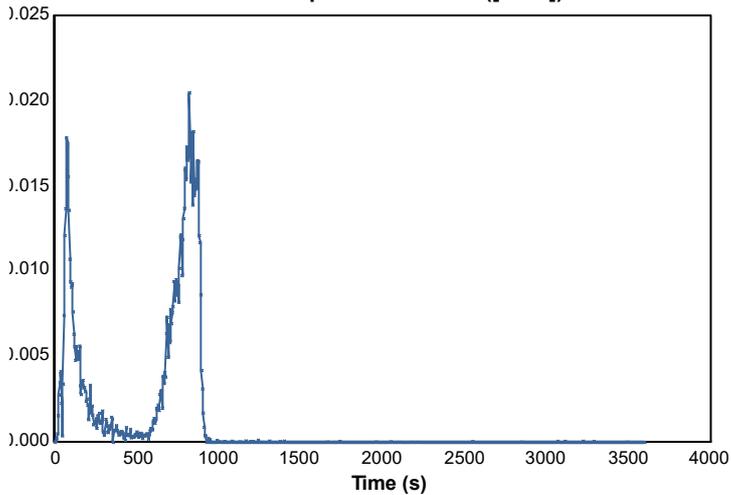
Heat release rate (kW/m²)



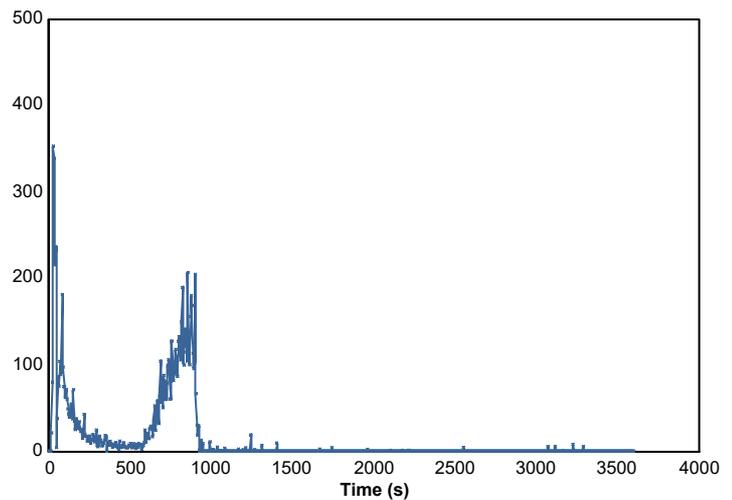
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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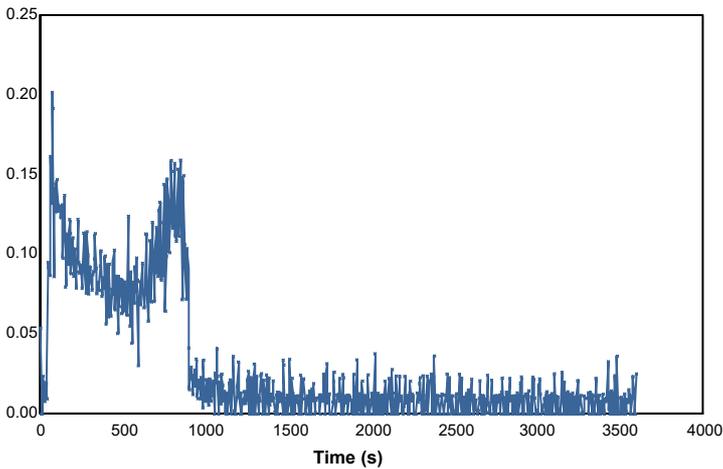
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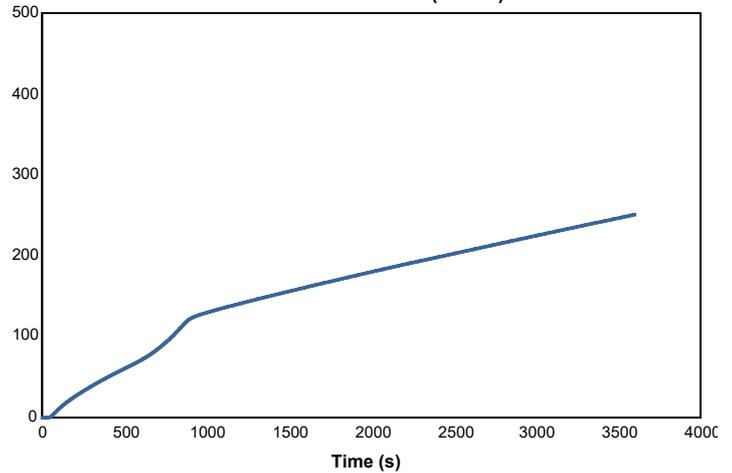
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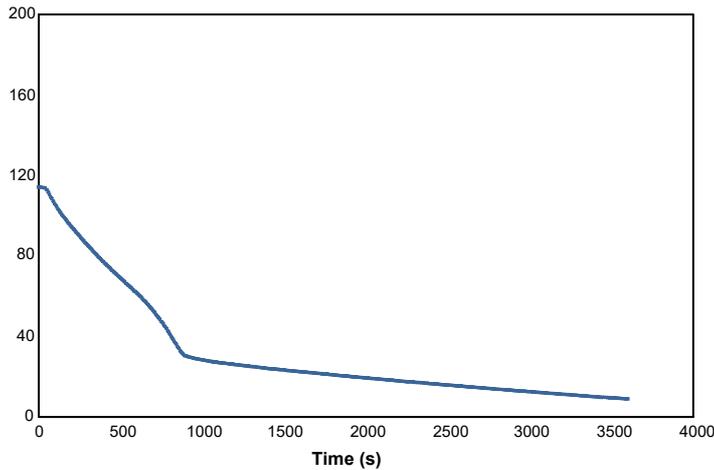
Mass loss rate (g/s)



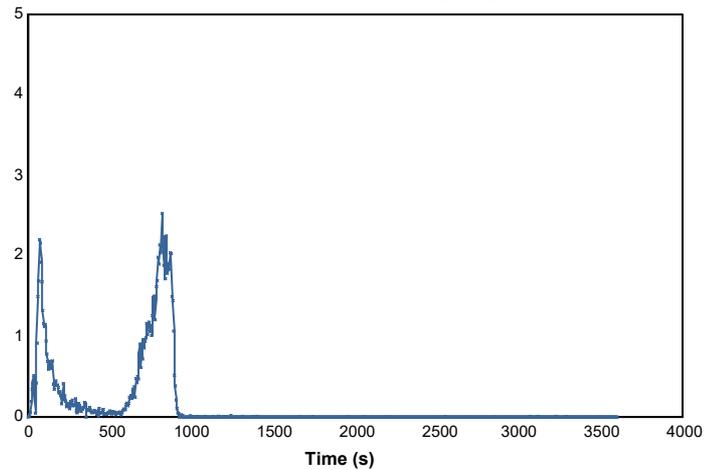
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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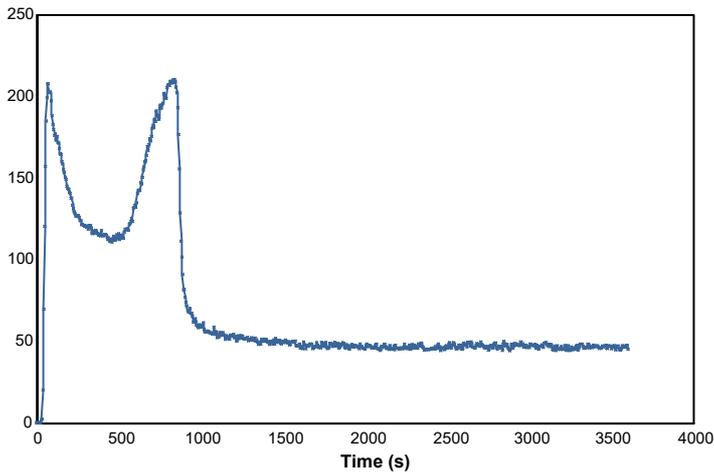
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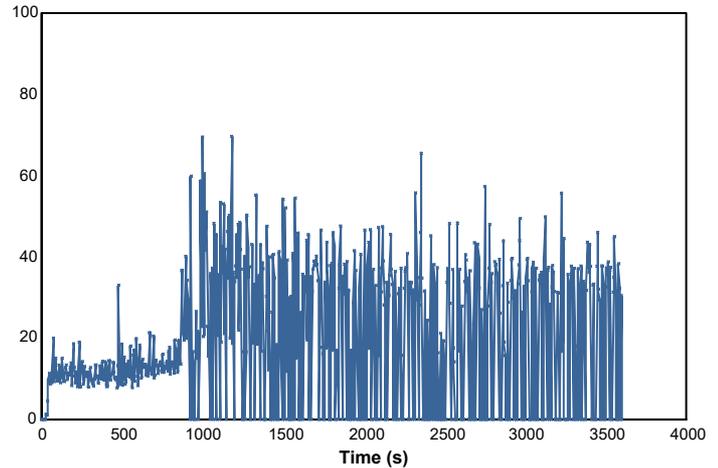
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Specimen : 3

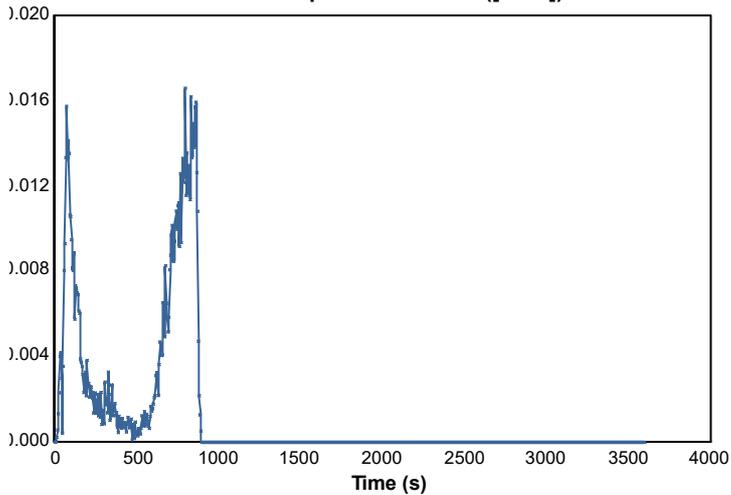
Heat release rate (kW/m²)



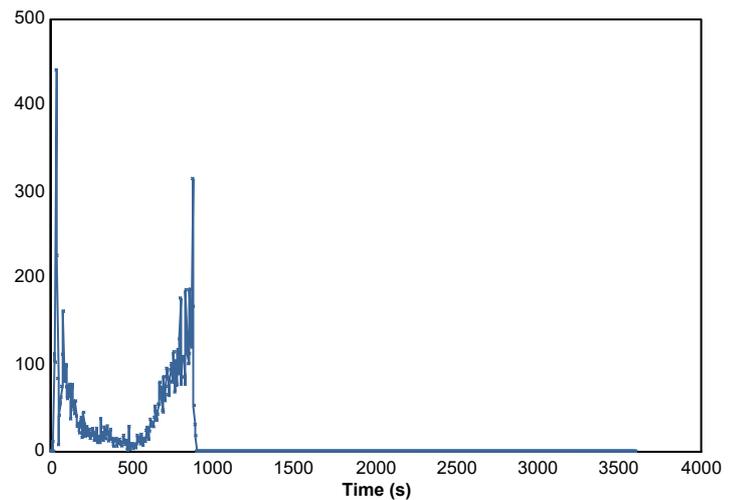
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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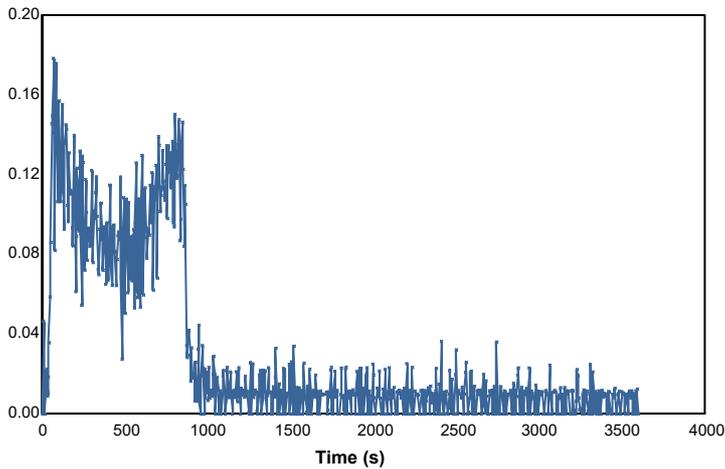
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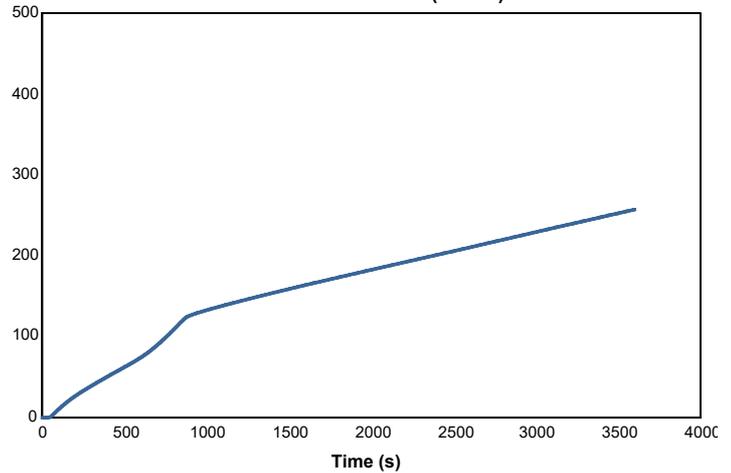
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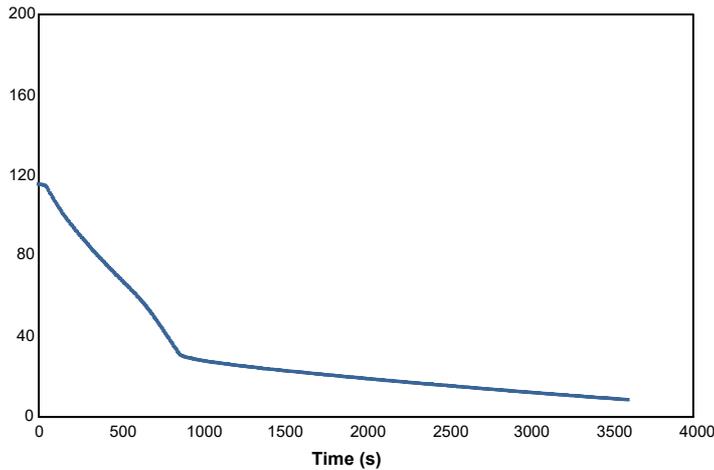
Mass loss rate (g/s)



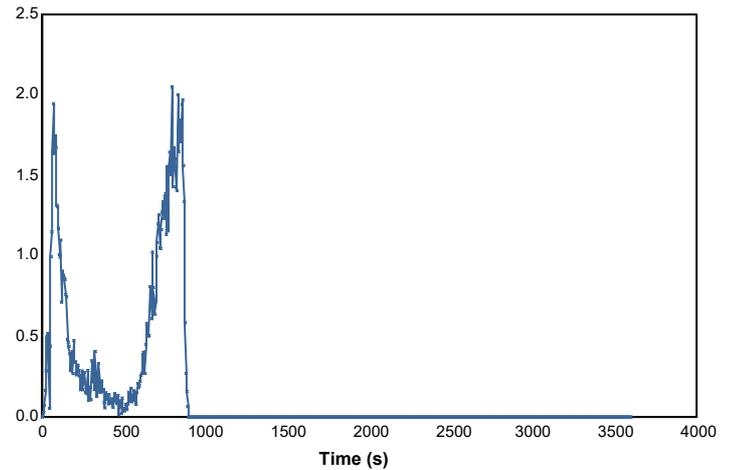
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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