

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 : 23-001532
Issue Date : 27/04/2023
Print Date : 24/05/2023
Order Number : 3455941

Sample Description Clients Ref : "30892 Alfresco Compact Laminate 6mm"
Rigid Panel
Colour : Light Grey
Nominal Composition : Compact laminex incorporating Cellulose fibres and thermosetting resins
Nominal Mass per Unit Area/Density : 1400kg/m3
Nominal Thickness : 6mm



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Accreditation Numbers: 983, 985, and 1356

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Chris Campbell
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: 27-04-2023
Operator: AWTA Test Operator 9
Face Tested: FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	42.0	42.3	42.7	42.3	kW/m ²
Average Specific extinction area	77.9	69.2	80.1	75.7	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	71	49	82	67	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	181.0	203.8	168.5	184.4	kW/m ²
Average heat at 60 s	83.5	68.2	90.0	80.6	kW/m ²
Average heat at 180 s	97.3	89.1	96.0	94.2	kW/m ²
Average heat at 300 s	103.3	96.1	101.0	100.1	kW/m ²
Total heat released	148.1	150.3	150.1	149.5	MJ/m ²
Average effective heat of combustion	17.5	17.3	17.7	17.5	MJ/kg
Initial thickness	6	6	6	6.0	mm
Initial mass	87.2	87.4	87.8	87.5	g
Mass remaining	18.5	17.0	19.1	18.2	g
Mass percentage pyrolysed	78.7	80.5	78.3	79.2	%

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Mass loss	8.5	8.7	8.5	8.6	kg/m ²
Average rate of mass loss	2.4	2.4	2.4	2.4	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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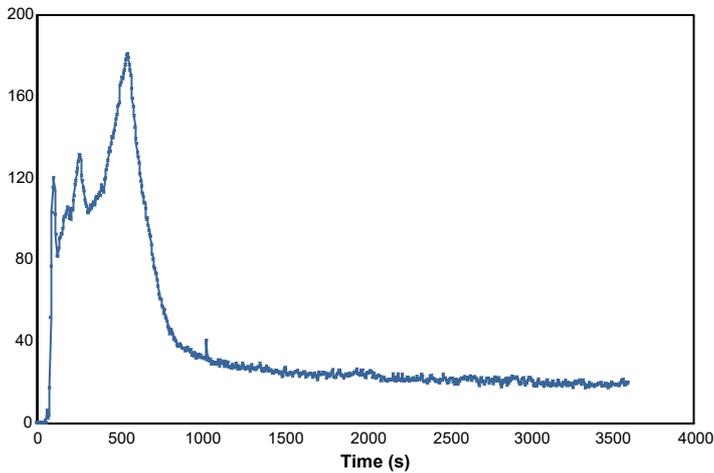
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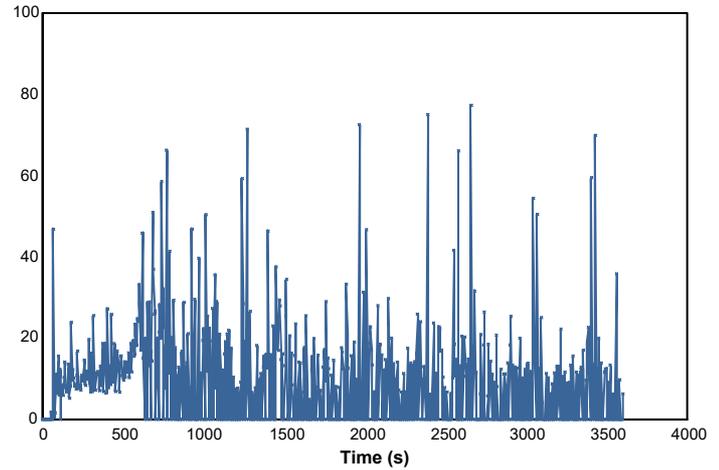
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Specimen : 1

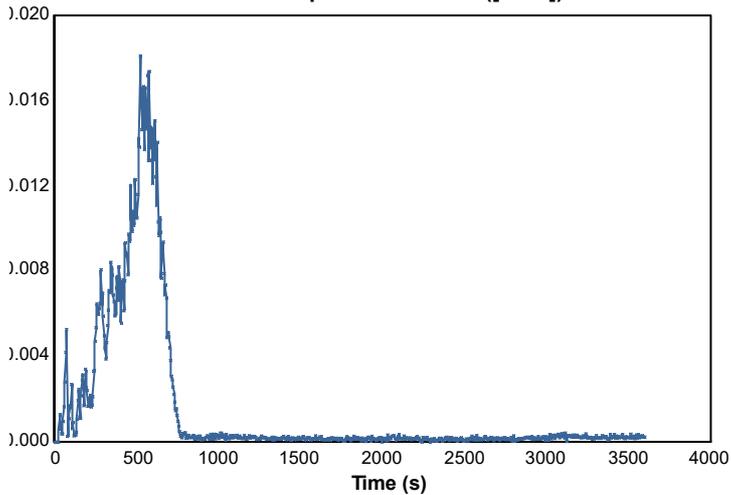
Heat release rate (kW/m²)



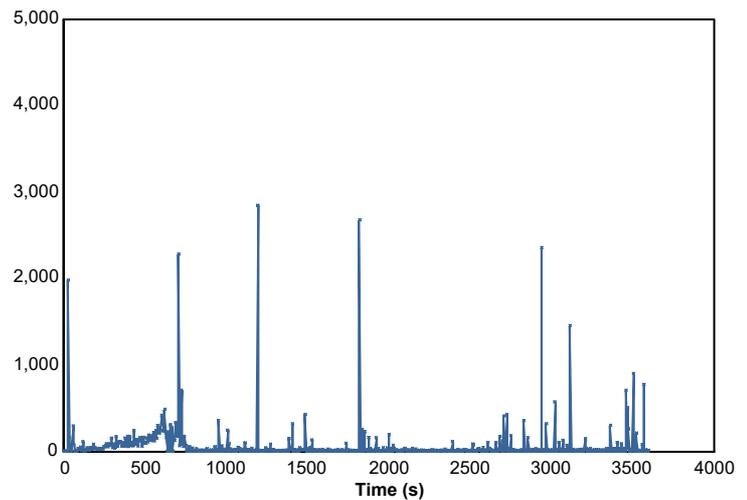
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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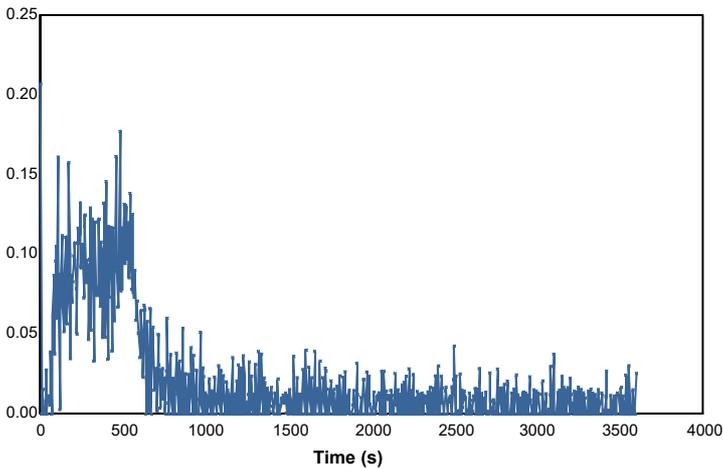
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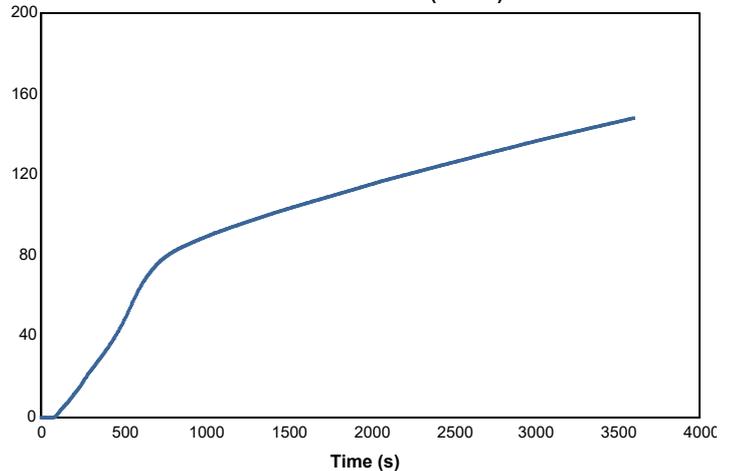
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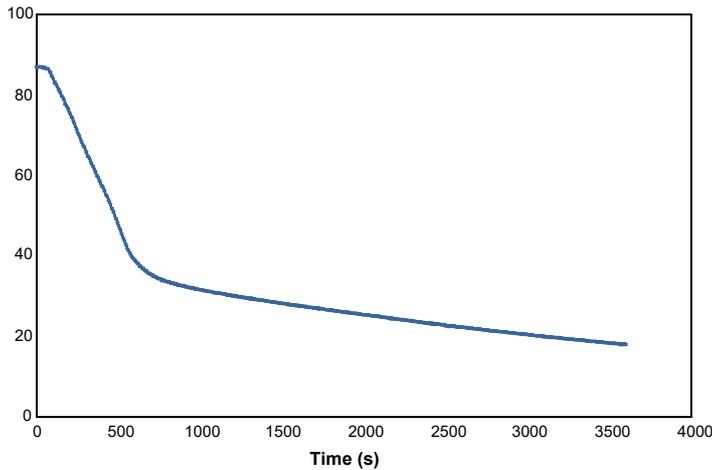
Mass loss rate (g/s)



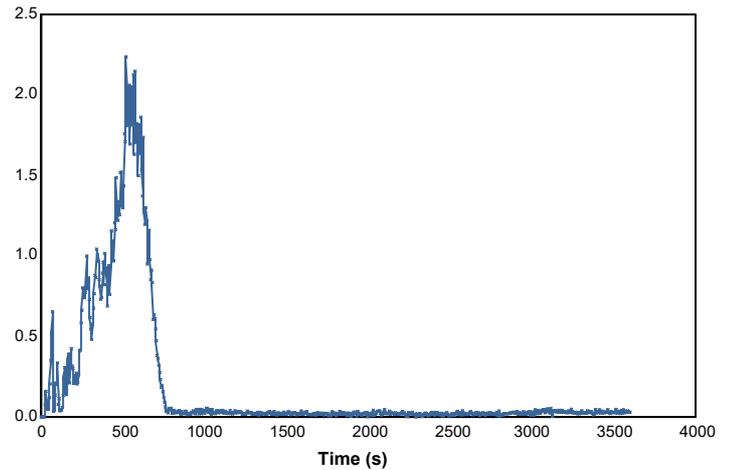
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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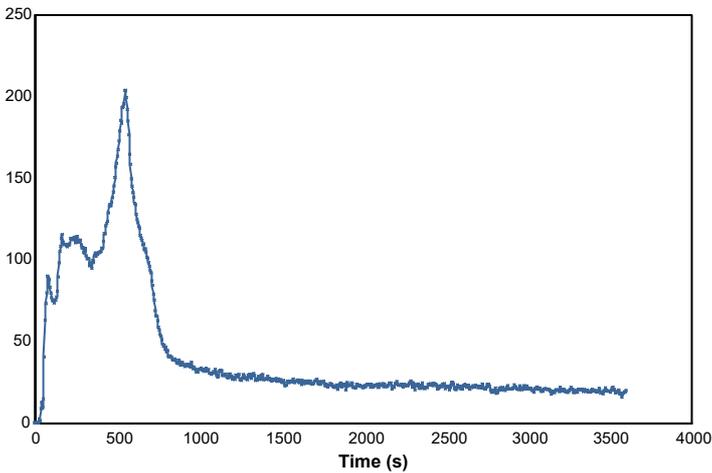
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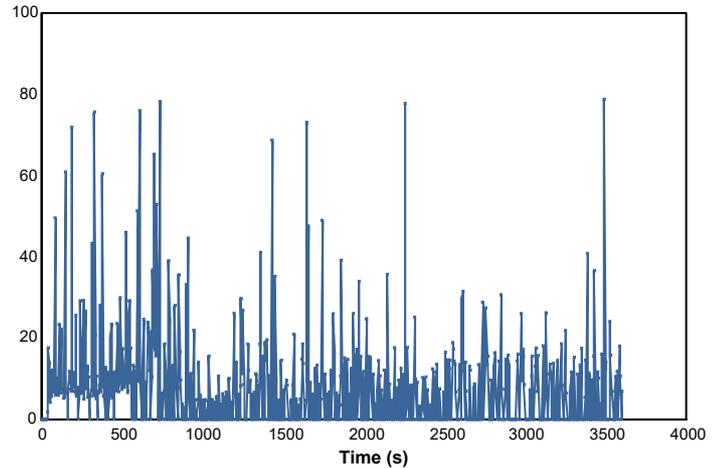
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Specimen : 2

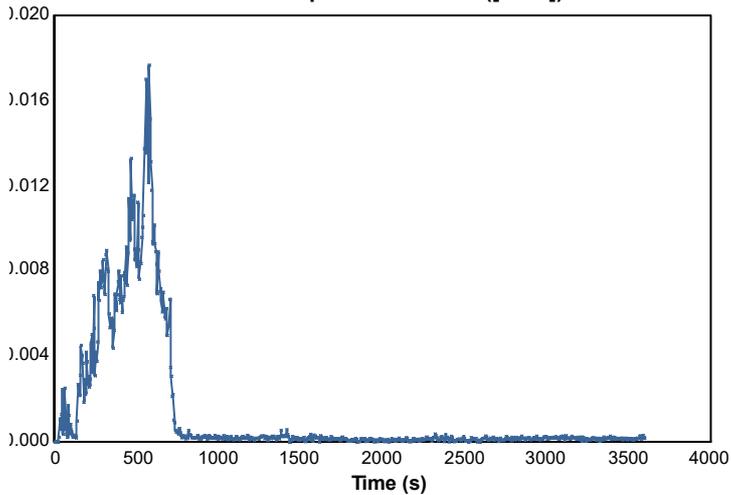
Heat release rate (kW/m²)



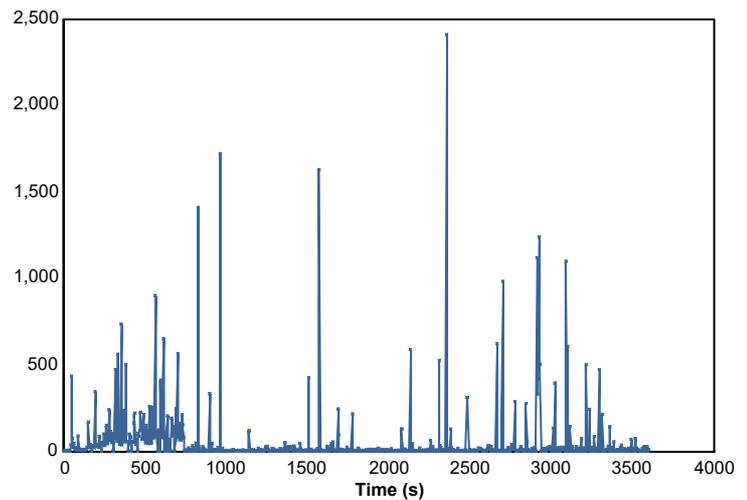
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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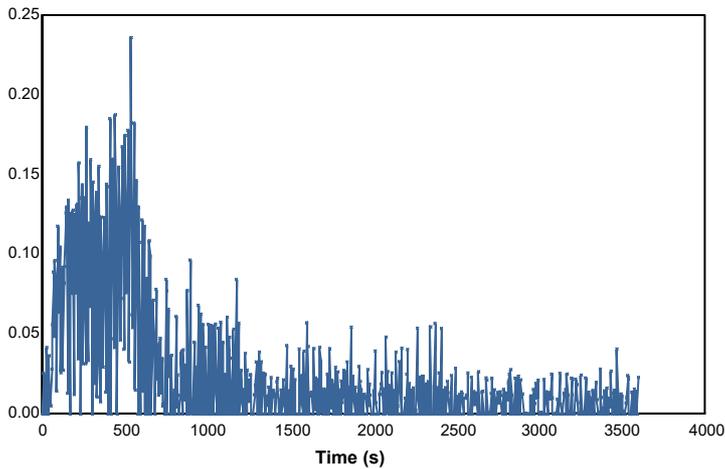
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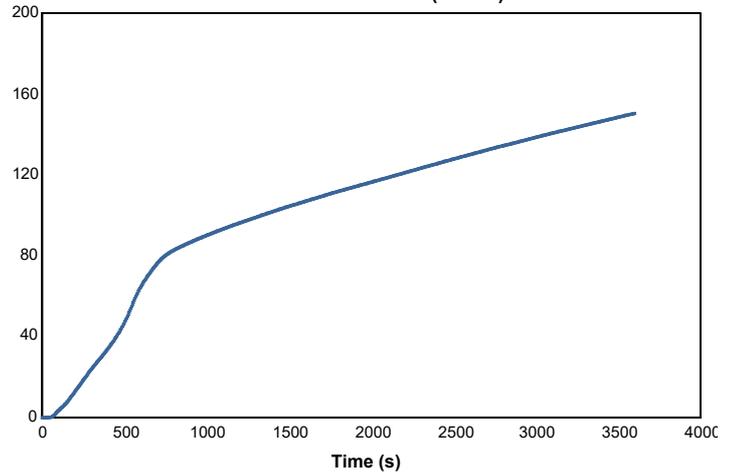
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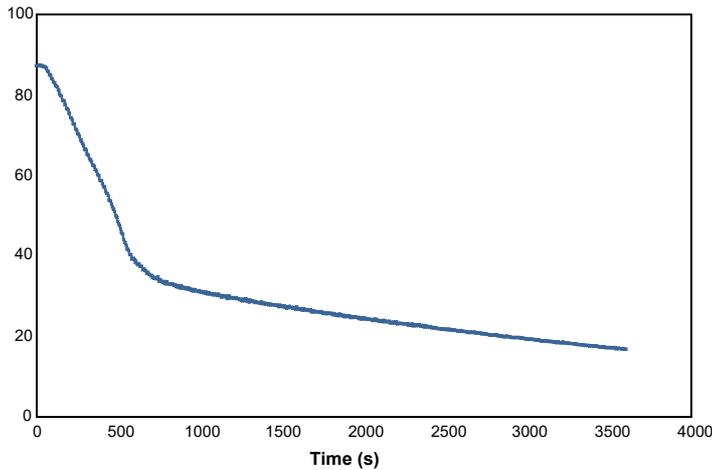
Mass loss rate (g/s)



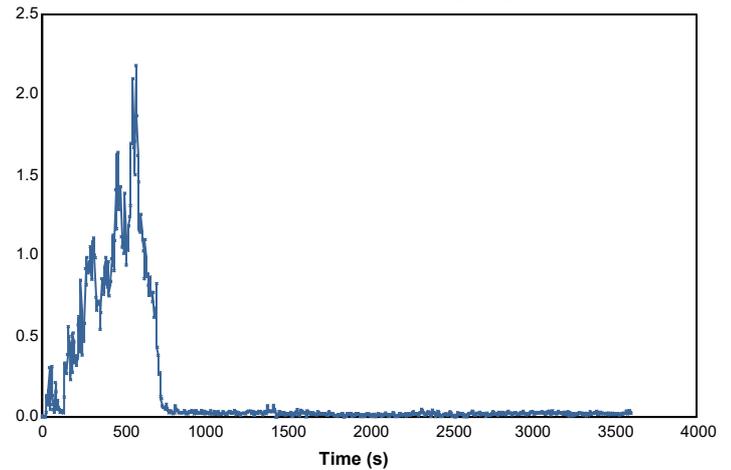
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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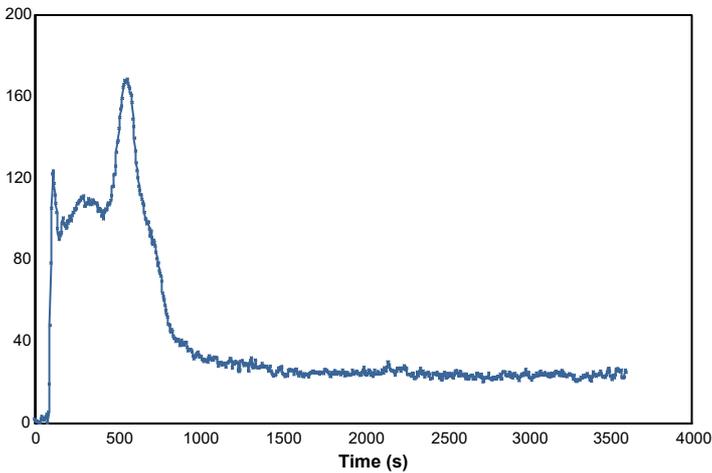
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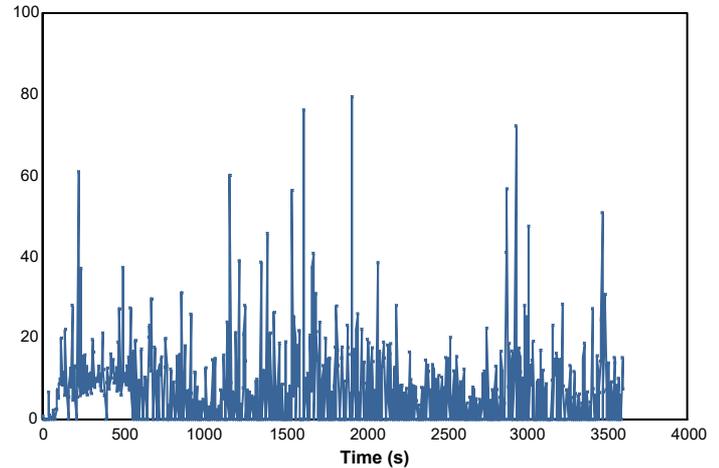
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Specimen : 3

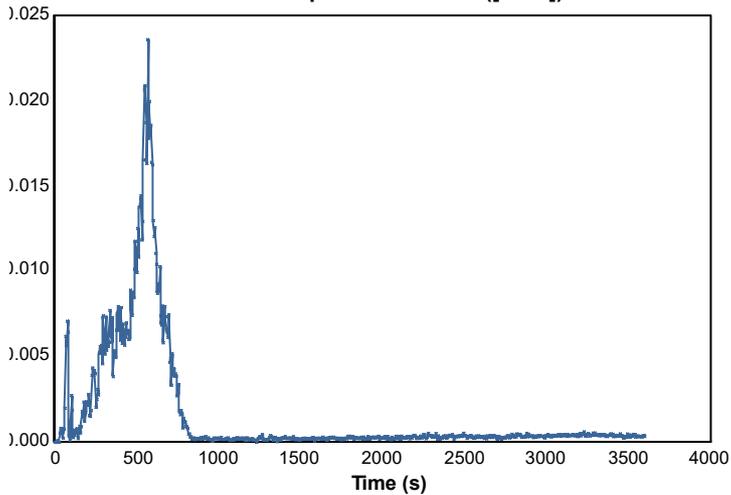
Heat release rate (kW/m²)



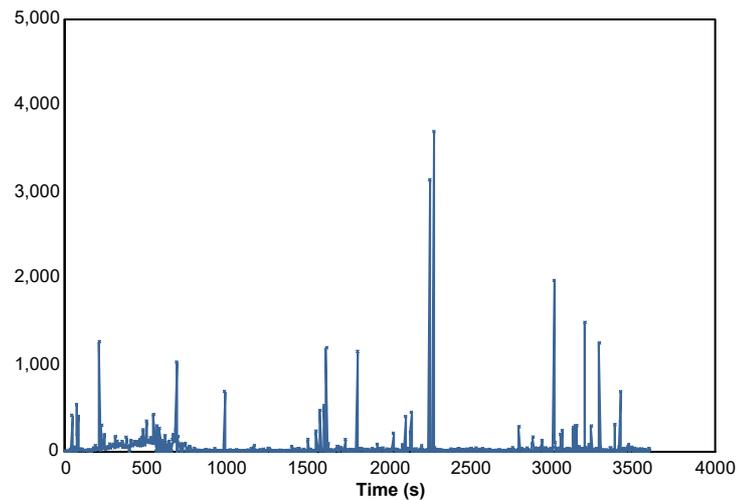
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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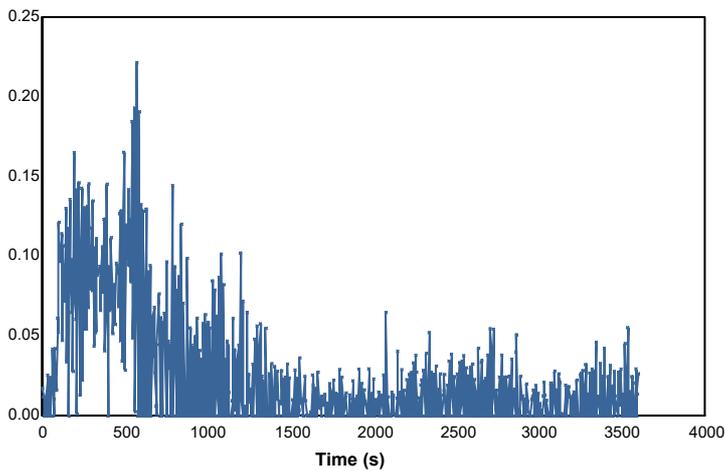
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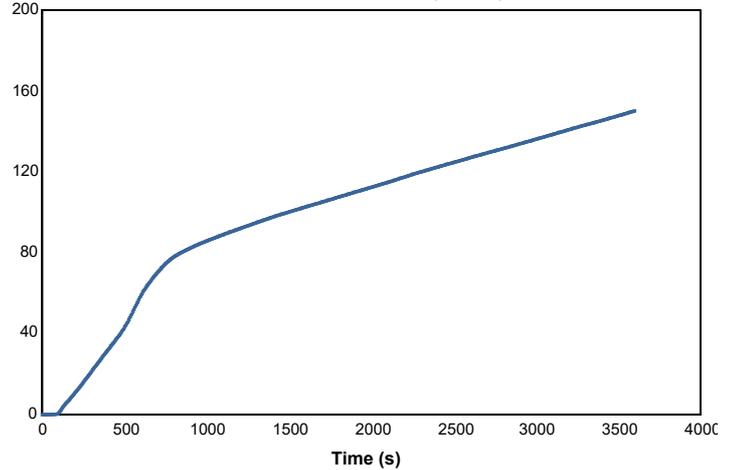
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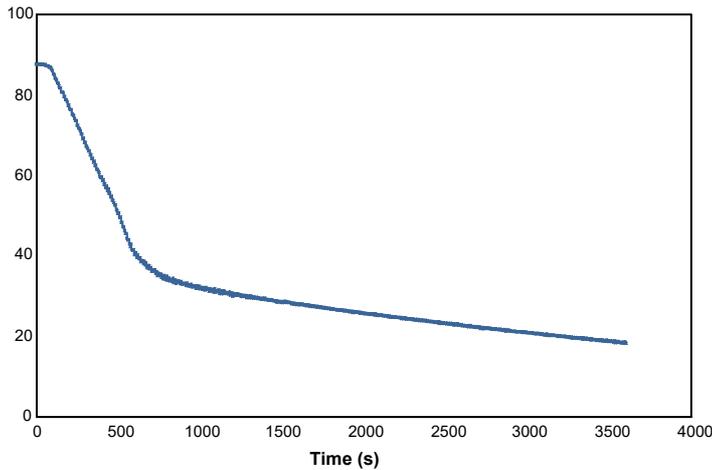
Mass loss rate (g/s)



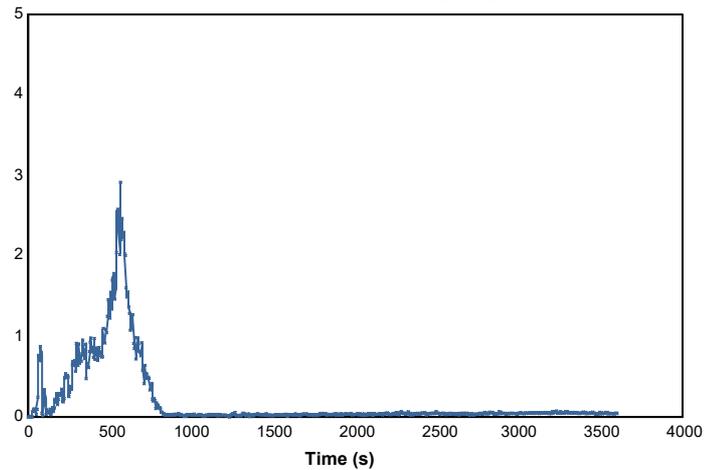
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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