

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

TEST REPORT

Client : Abet Pty Ltd
11-13 Smoothy Place
Arndell Park NSW 2148

Test Number : 19-002650
Issue Date : 02/08/2019
Print Date : 5/08/2019

Sample Description Clients Ref : "Abet Laminati"
High Pressure Laminate
Colour : White
End Use : Decorative Surfacing Material for furniture, Walls & Doors
Nominal Composition : Layers of kraft paper impregnated with thermosetting resins and an outer layer - on one side of decorative paper
Nominal Mass per Unit Area/Density : Approx: 1350g/m²
Nominal Thickness : 0.9mm

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

Date Tested 01/08/2019
Operator
Face Tested White face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	28.8	27.6	24.2	26.9	kW/m ²
Average Specific extinction area	9.3	18.6	11.8	13.2	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	92	44	66	67	sec
Test duration	516	32	511	353	sec
Peak heat release after ignition	97.9	110.5	88.8	99.1	kW/m ²
Average heat at 60 s	75.2	88.8	73.2	79.0	kW/m ²

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- Performance & Approvals Testing

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APPROVED SIGNATORY

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

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Average heat at 180 s	43.4	40.2	37.0	40.2	kW/m ²
Average heat at 300 s	33.4	30.4	28.0	30.6	kW/m ²
Total heat released	12.3	10.7	10.8	11.3	MJ/m ²
Average effective heat of combustion	5.1	5.3	4.5	5.0	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	103.8	100.7	104.8	103.1	g
Mass at sustained flaming	100.6	99.7	102.8	101.0	g
Mass remaining	84.4	84.2	85.5	84.7	g
Mass percentage pyrolysed	18.7	16.4	18.4	17.8	%
Mass loss	2.4	2.0	2.4	2.3	kg/m ²
Average rate of mass loss	5.6	5.2	5.3	5.4	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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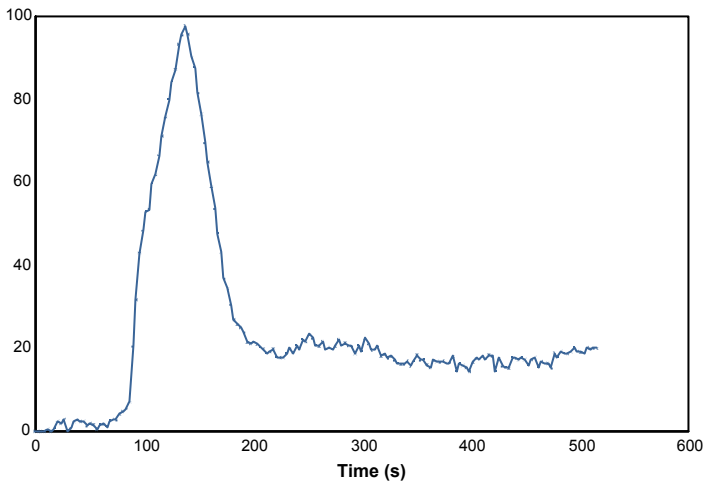
TEST REPORT

Client : Abet Pty Ltd
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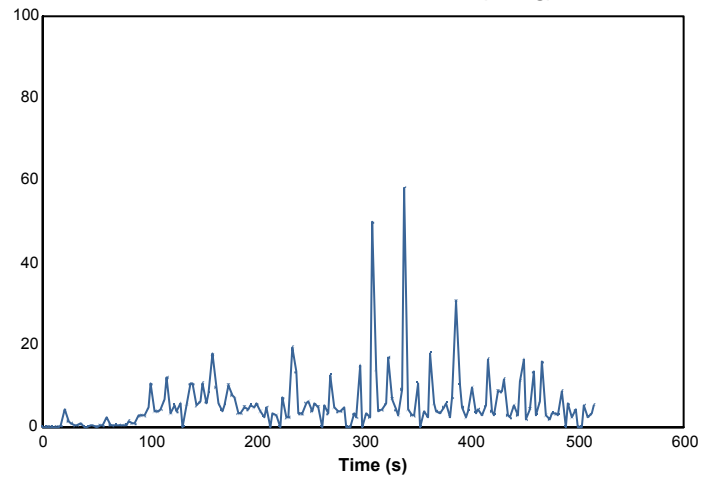
Test Number : 19-002650
Issue Date : 02/08/2019
Print Date : 5/08/2019

Specimen : 1

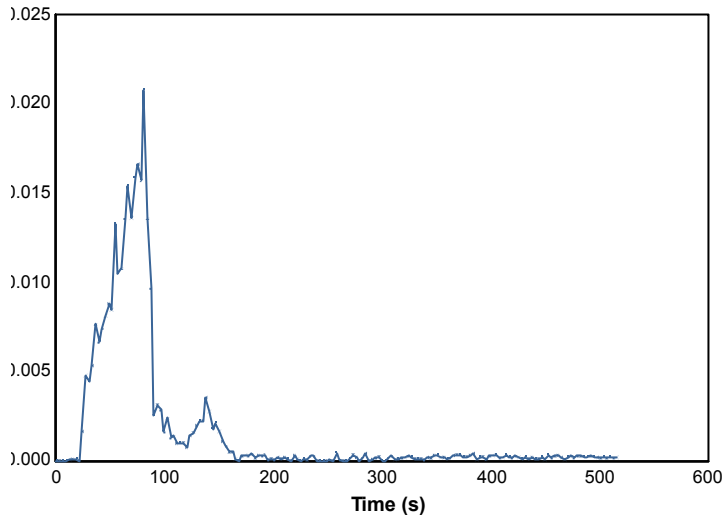
Heat release rate (kW/m²)



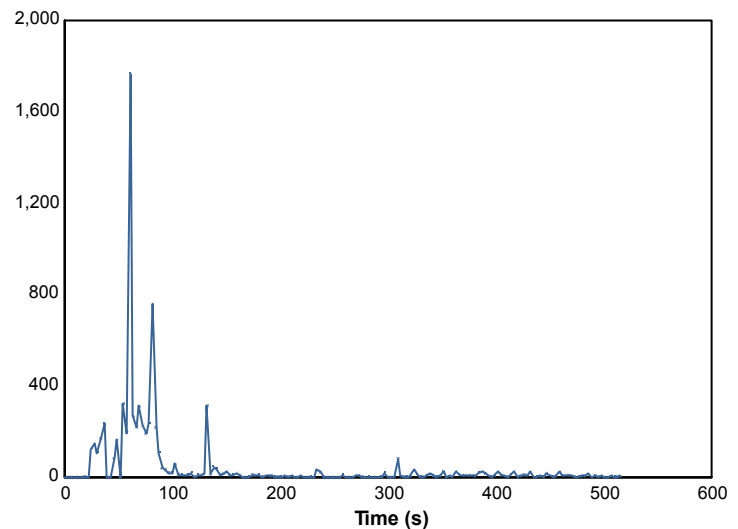
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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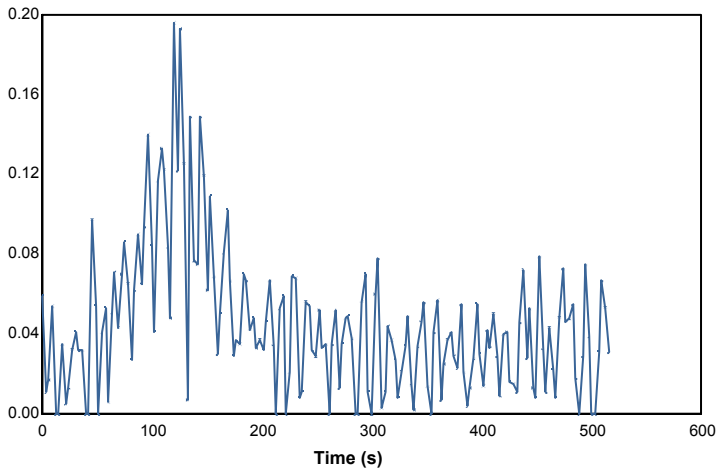
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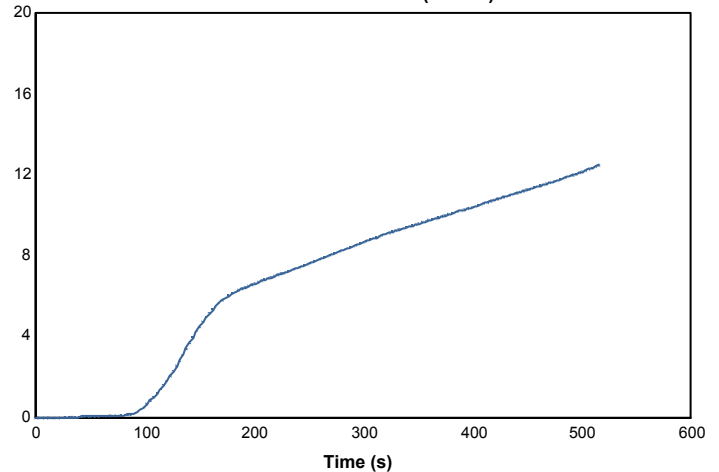
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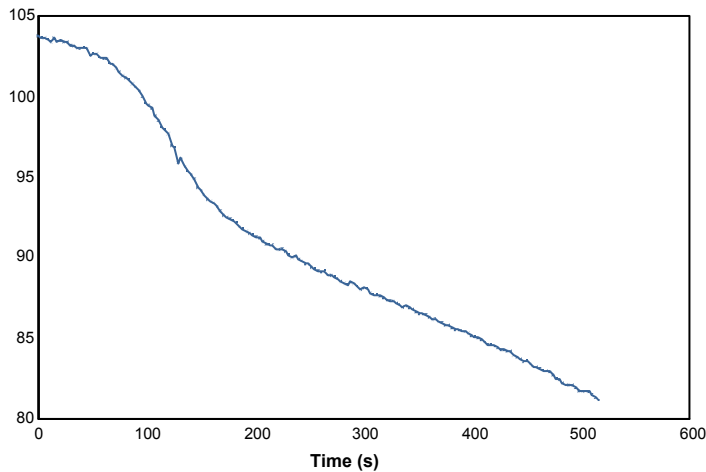
Mass loss rate (g/s)



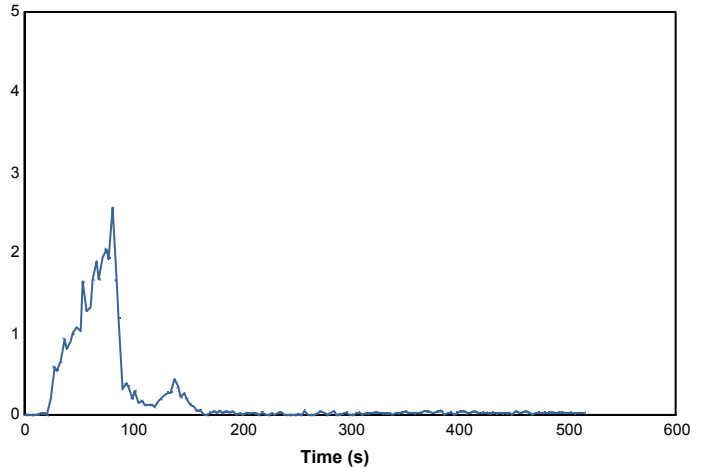
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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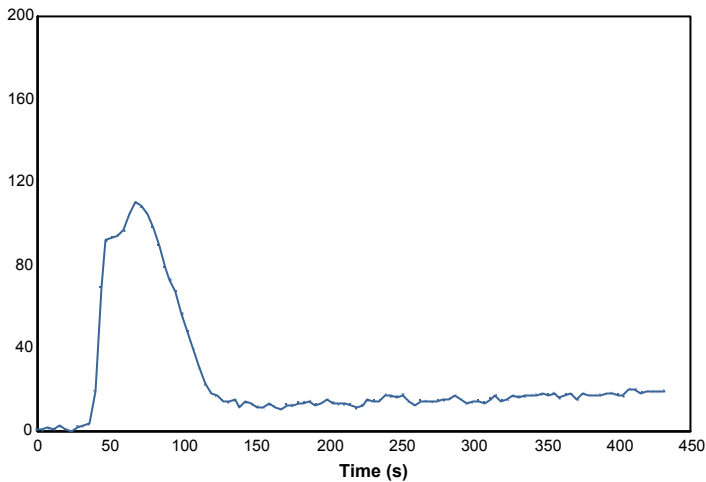
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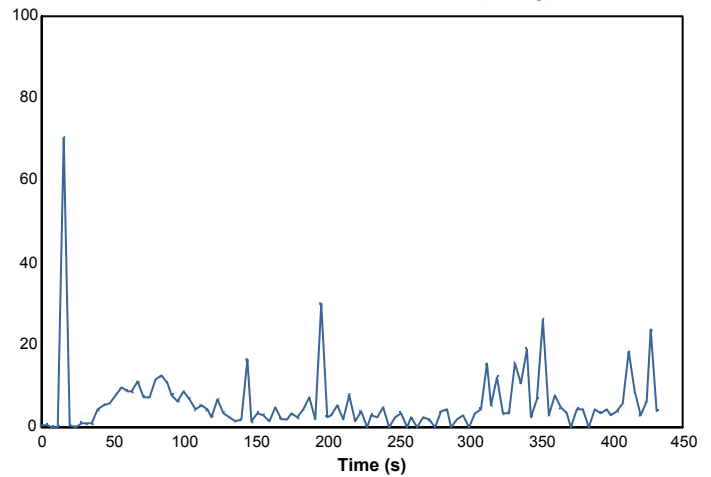
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Specimen : 2

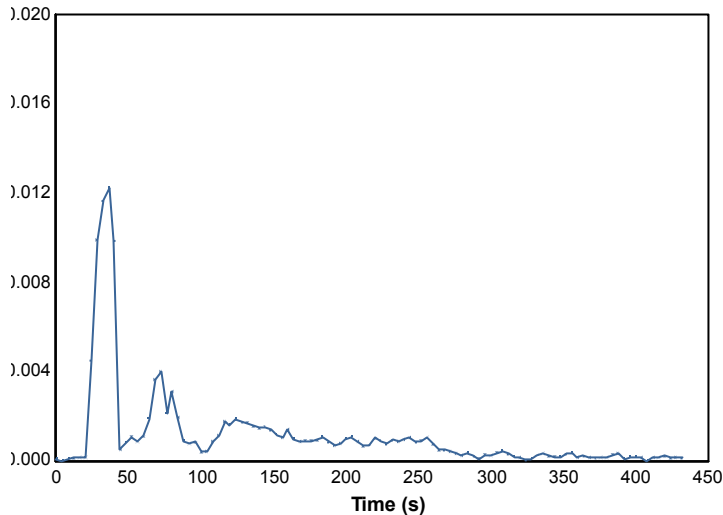
Heat release rate (kW/m²)



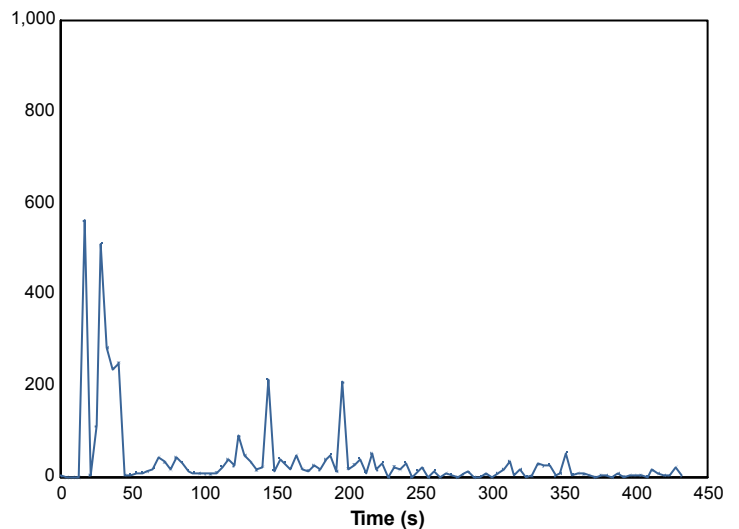
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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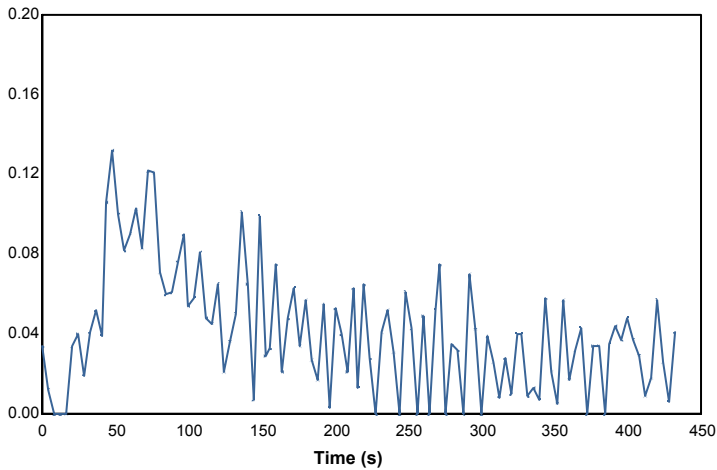
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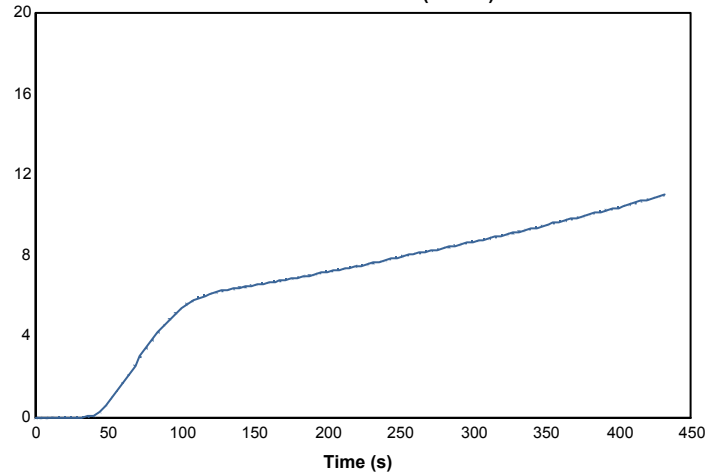
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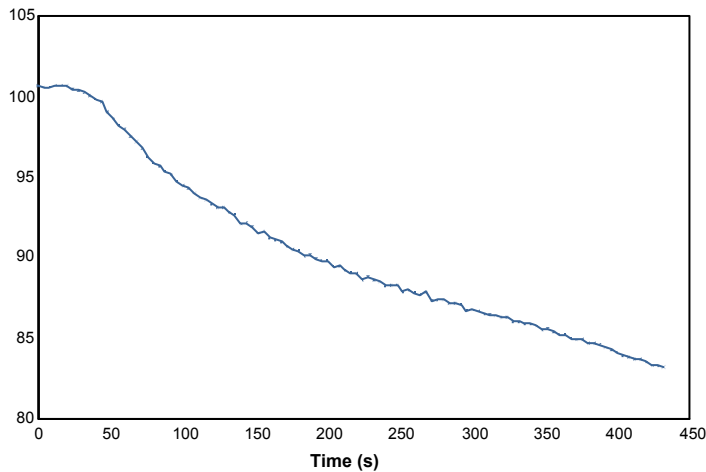
Mass loss rate (g/s)



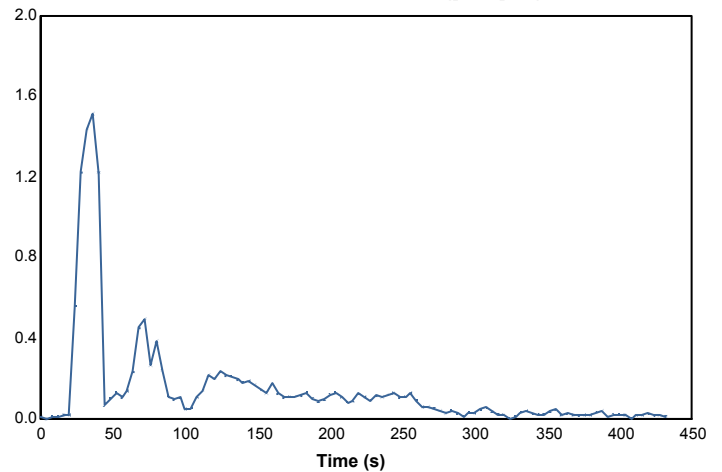
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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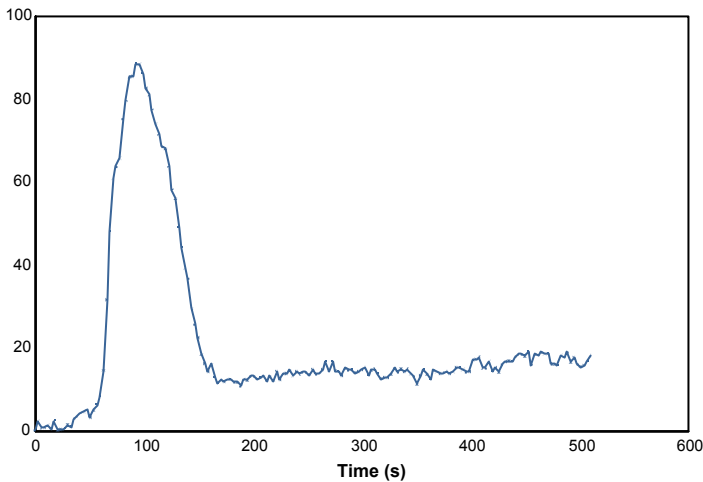
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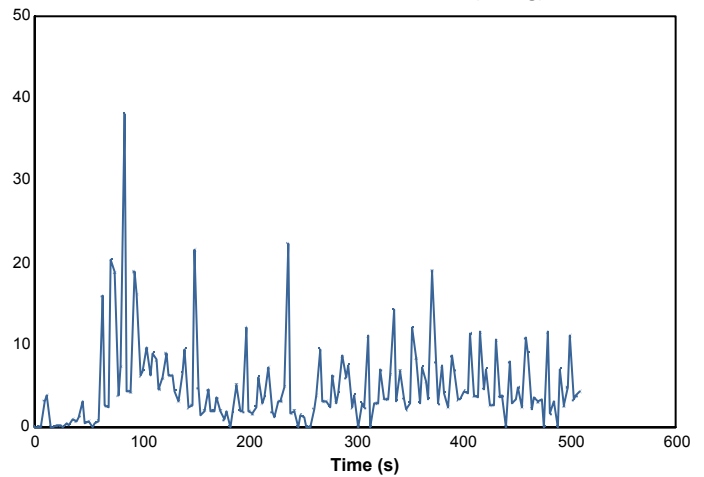
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Specimen : 3

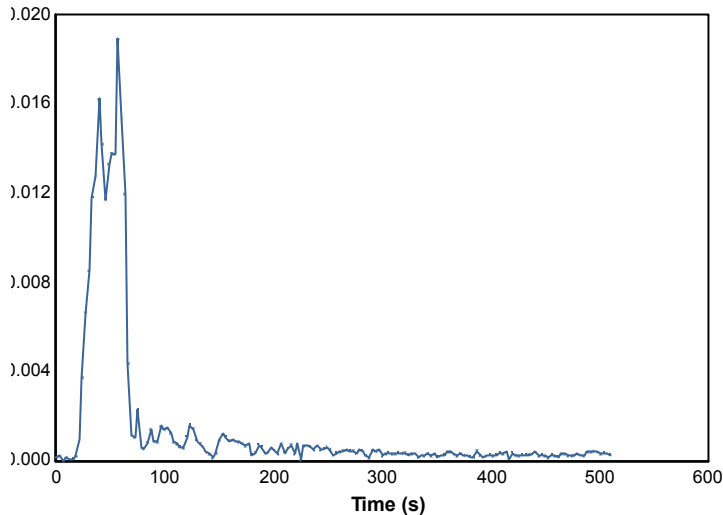
Heat release rate (kW/m²)



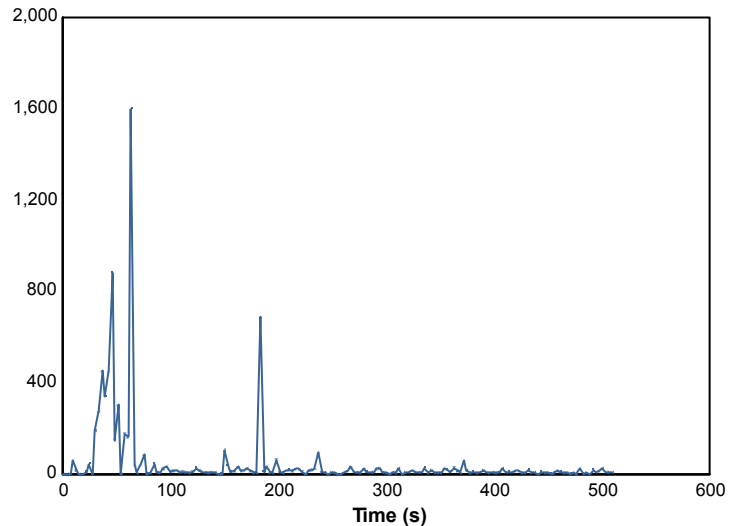
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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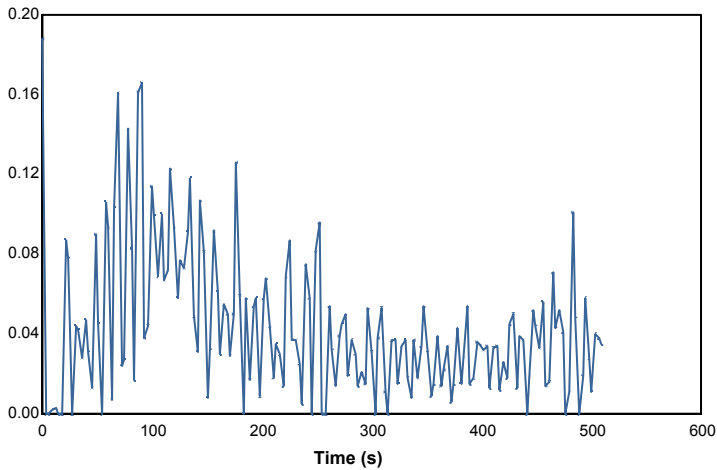
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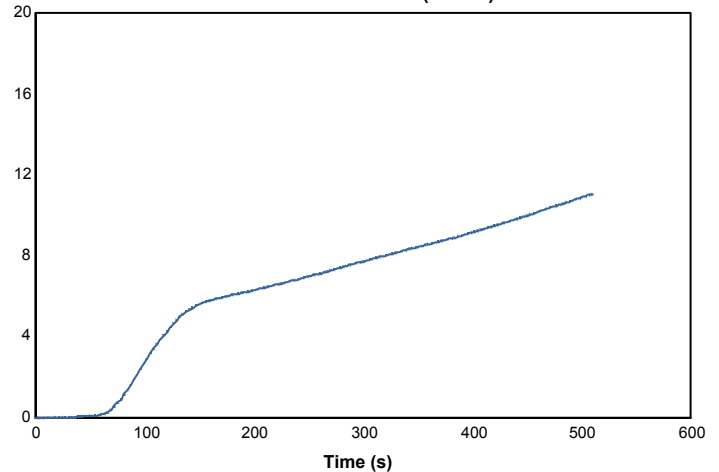
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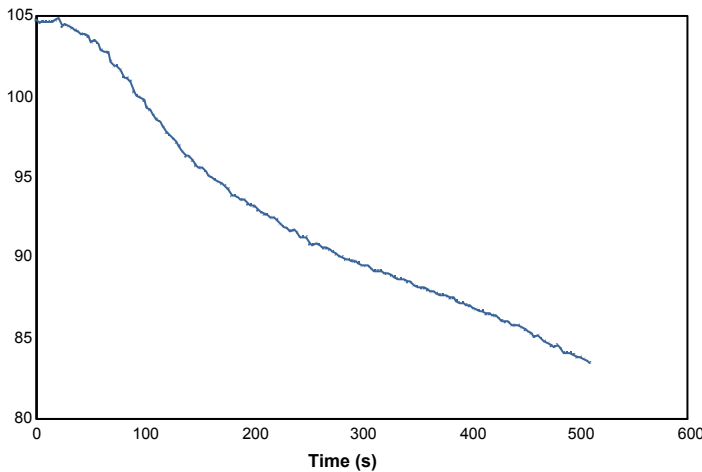
Mass loss rate (g/s)



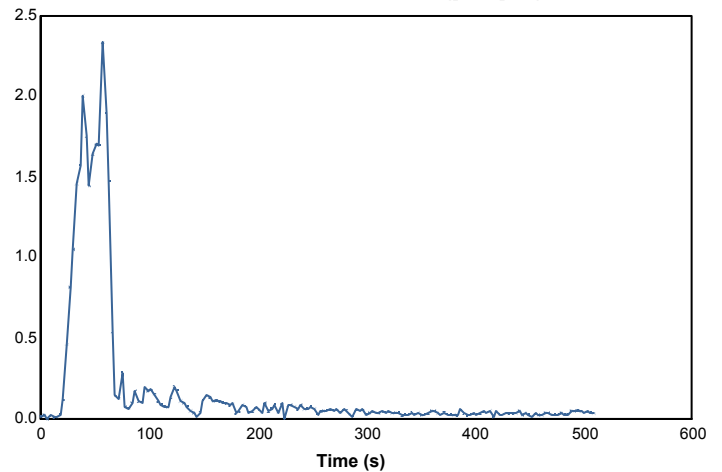
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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