

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 : Coen Composite Wood
5/33 Vulture Street
West End Brisbane QLD 4101

Test Number : 18-005495
Issue Date : 09/10/2018
Print Date : 24/10/2018

Sample Description Clients Ref : "Coen Screening"
Rigid panel
Colour : Natural
End Use : Screening - Solid
Nominal Composition : 60% Recycled wood flour, 28% Recycled HDPE, 12% Bonding Agent
Nominal Mass per Unit Area/Density : Approx: 50.7g/m²
Nominal Thickness : Approx: 50mm

AS/NZS 3837-1998

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

Date Tested 08/10/2018
Operator AWTA Test Operator 1
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	79.6	87.3	85.7	84.2	kW/m ²
Average Specific extinction area	113.8	115.6	86.1	105.2	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	89	73	91	84	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	162.1	163.6	146.9	157.5	kW/m ²
Average heat at 60 s	107.2	96.3	112.5	105.3	kW/m ²

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Average heat at 180 s	134.0	132.5	131.1	132.5	kW/m ²
Average heat at 300 s	131.5	132.0	129.8	131.1	kW/m ²
Total heat released	279.4	307.7	300.7	295.9	MJ/m ²
Average effective heat of combustion	21.9	23.2	25.2	23.4	MJ/kg
Initial thickness	38	38	38	38.0	mm
Initial mass	543.7	514.9	523.3	527.3	g
Mass at sustained flaming	543.1	514.5	522.5	526.7	g
Mass remaining	440.4	407.1	426.5	424.7	g
Mass percentage pyrolysed	19.0	20.9	18.5	19.5	%
Mass loss	12.8	13.3	12.0	12.7	kg/m ²
Average rate of mass loss	3.5	3.7	3.3	3.5	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.

Specimen thickness was reduced to 38mm for testing purposes.

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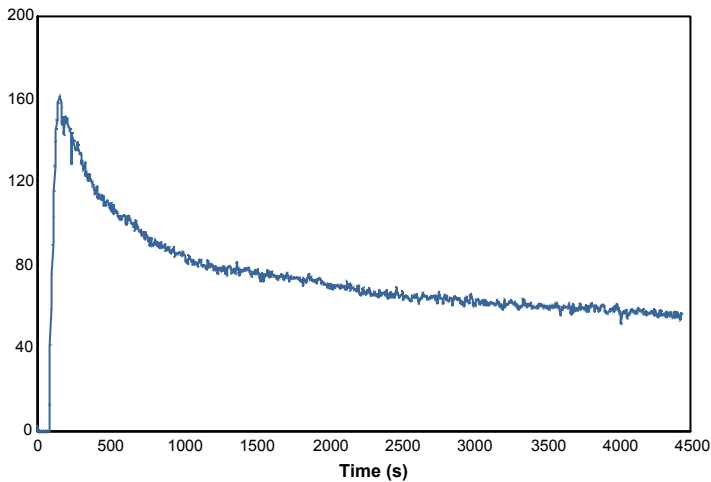
TEST REPORT

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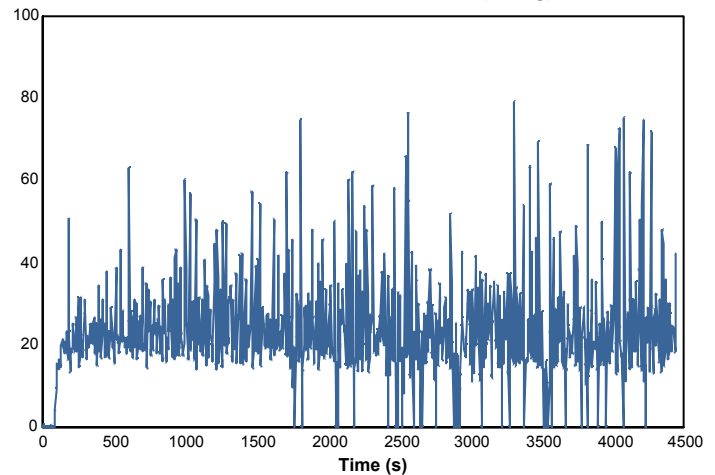
Test Number : 18-005495
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Specimen : 1

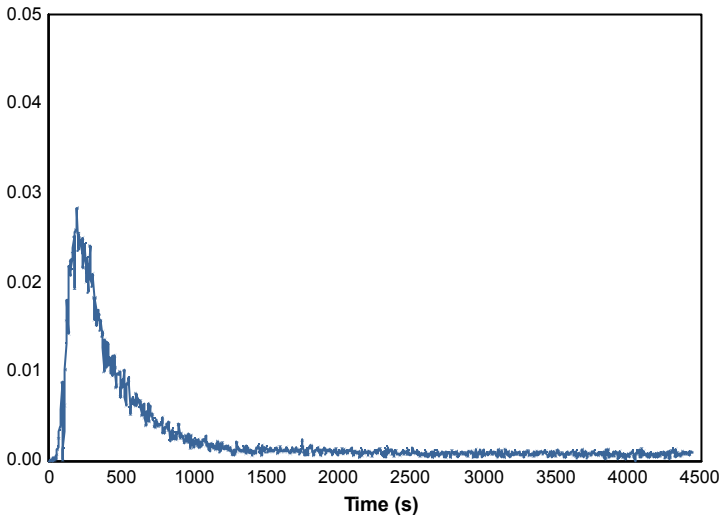
Heat release rate (kW/m²)



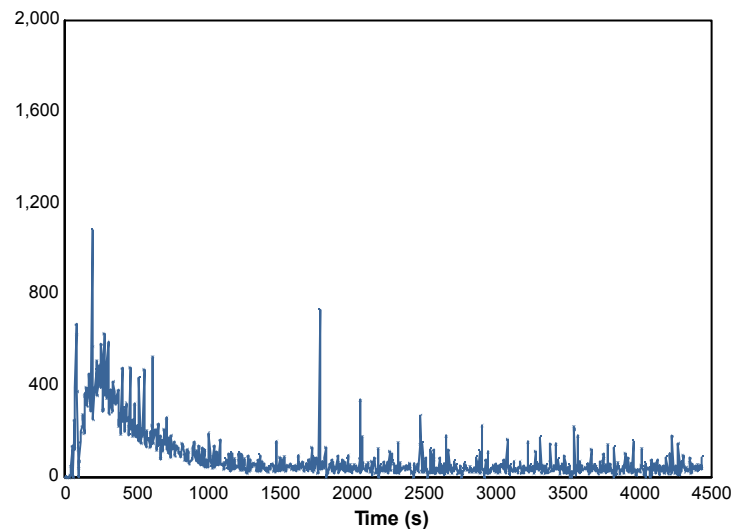
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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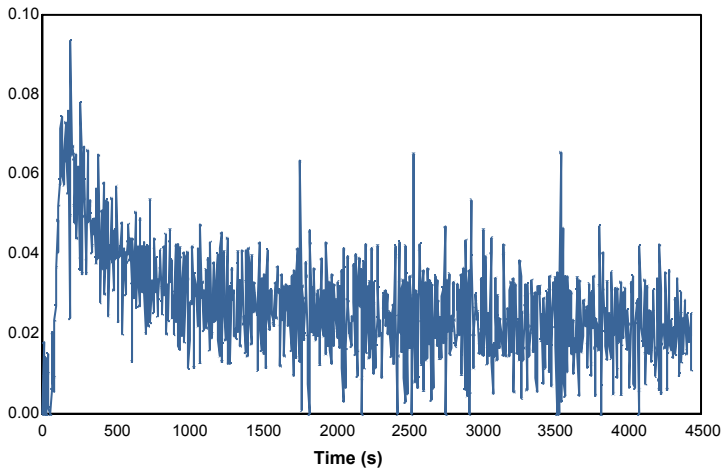
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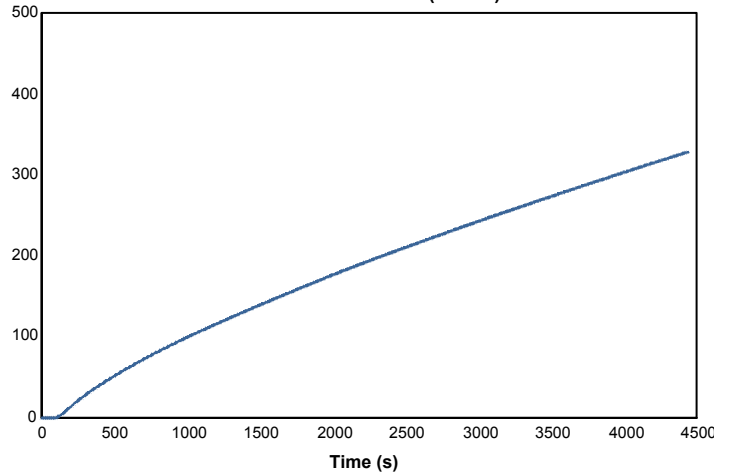
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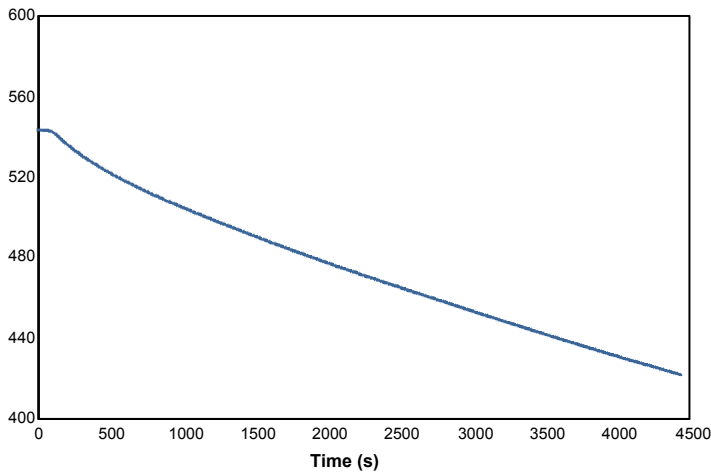
Mass loss rate (g/s)



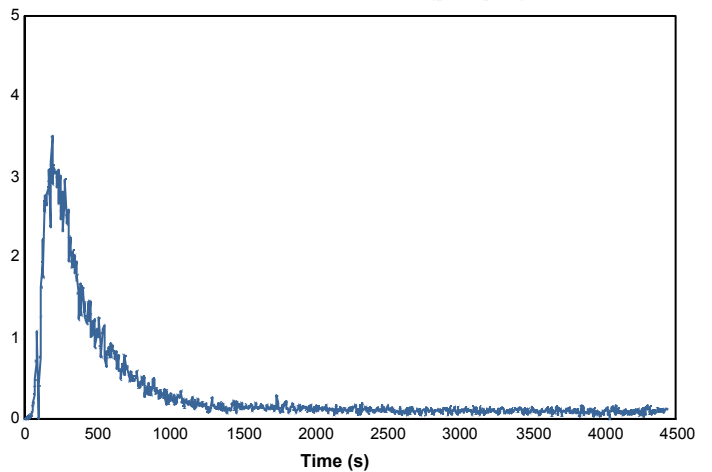
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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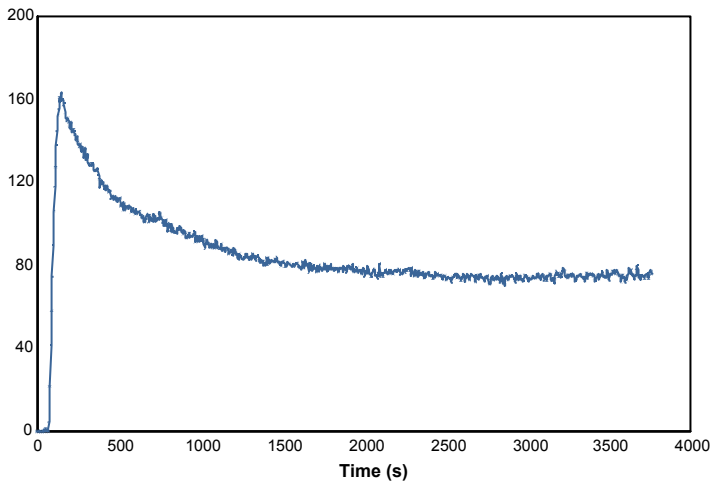
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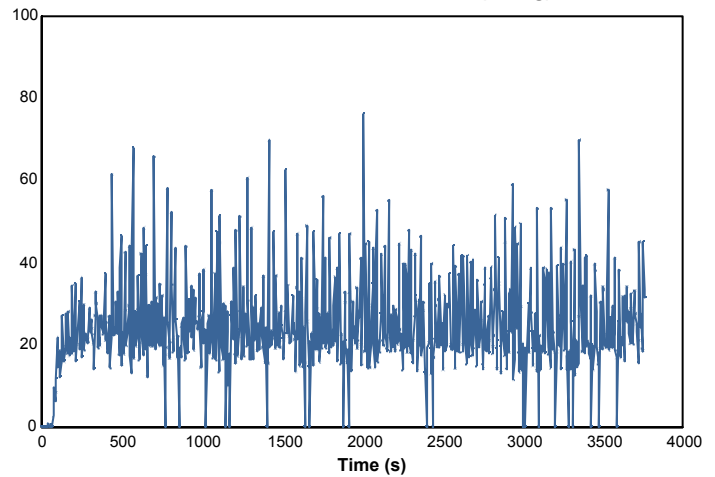
Test Number : 18-005495
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Specimen : 2

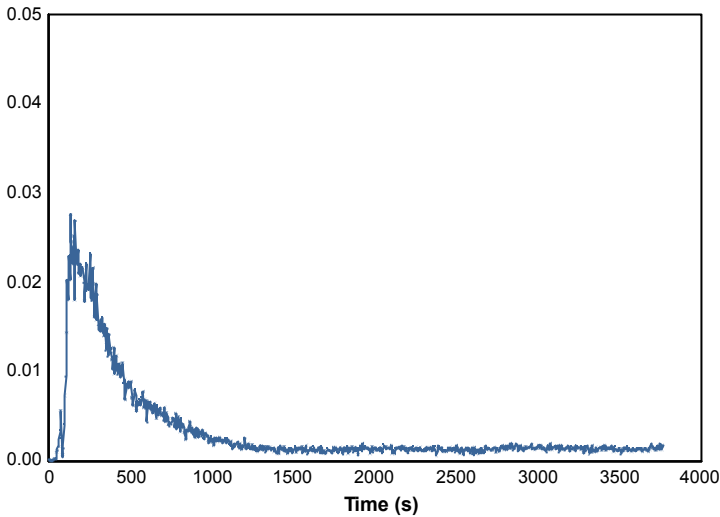
Heat release rate (kW/m²)



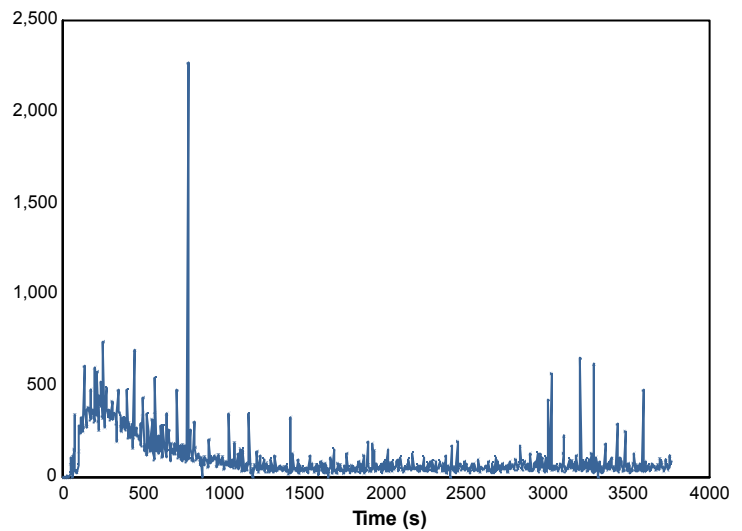
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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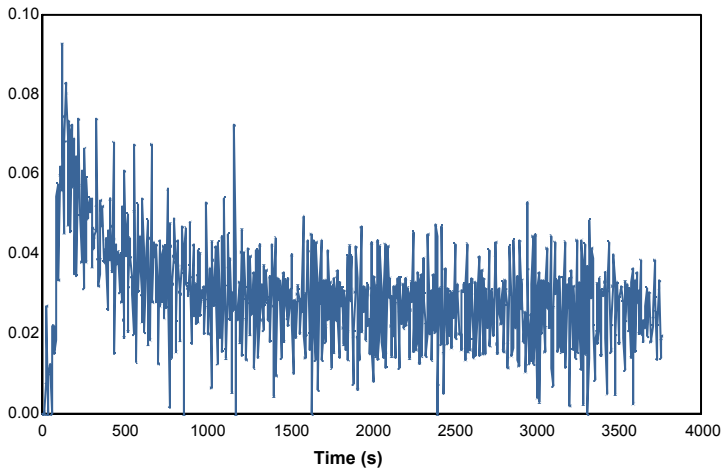
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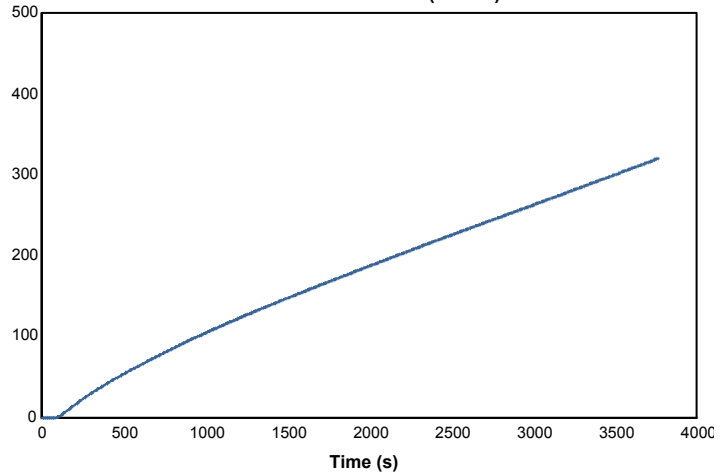
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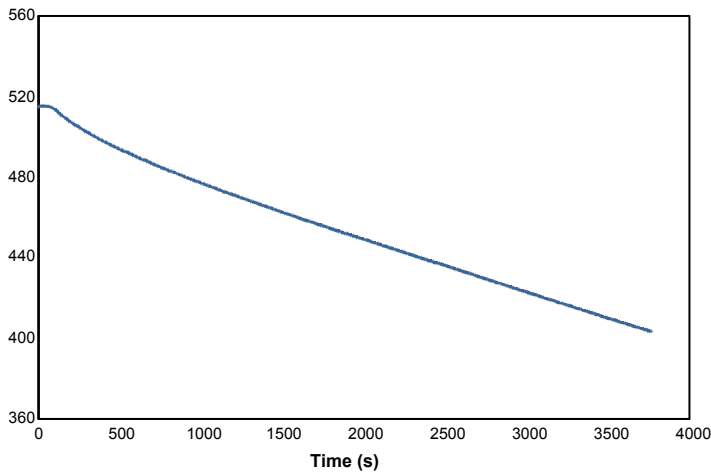
Mass loss rate (g/s)



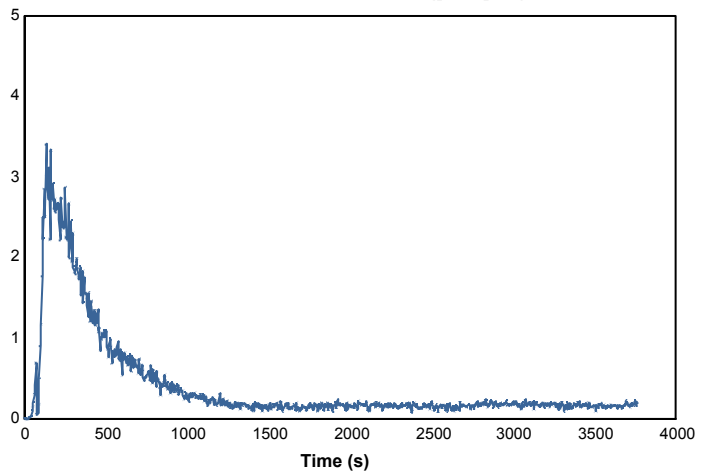
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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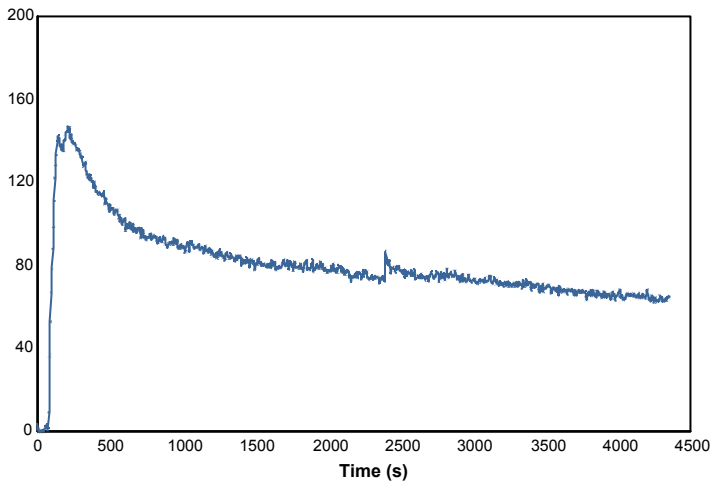
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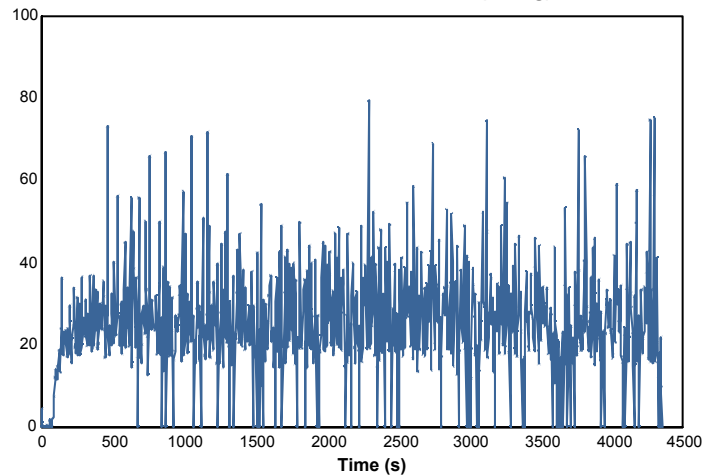
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Specimen : 3

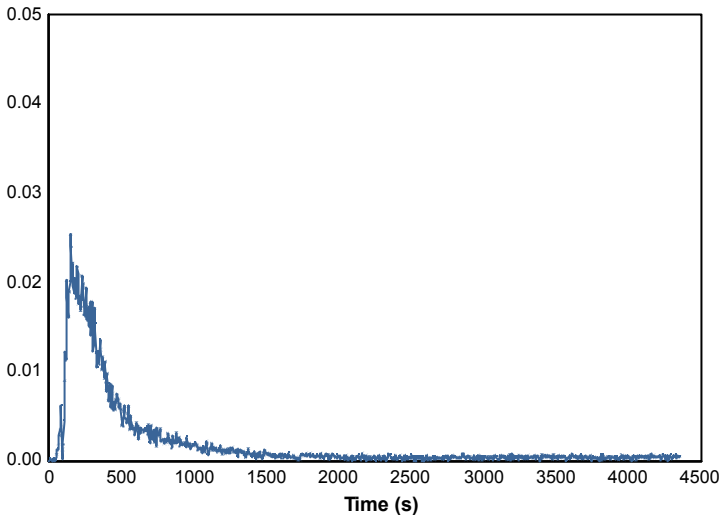
Heat release rate (kW/m²)



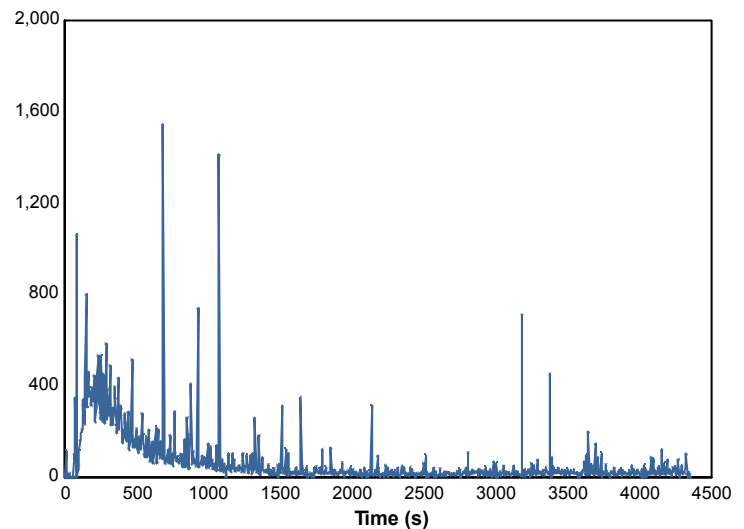
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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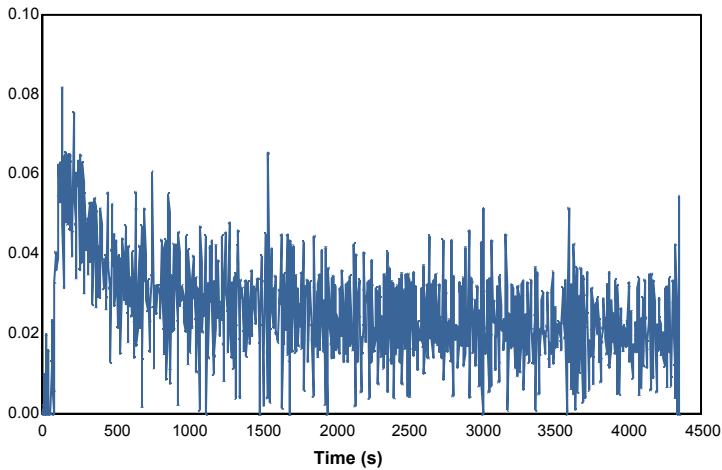
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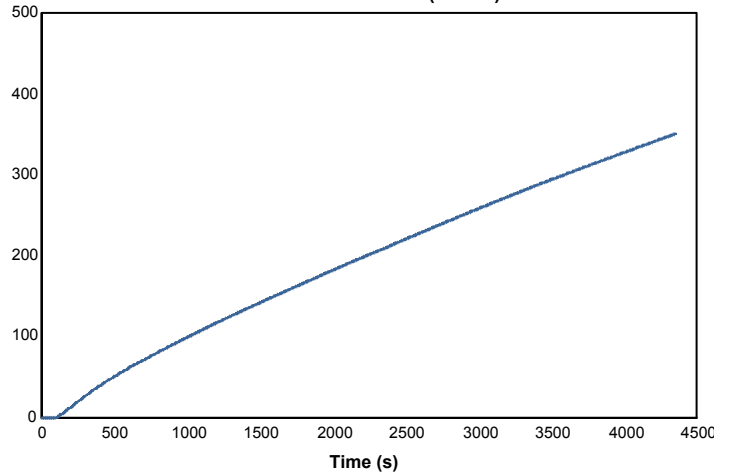
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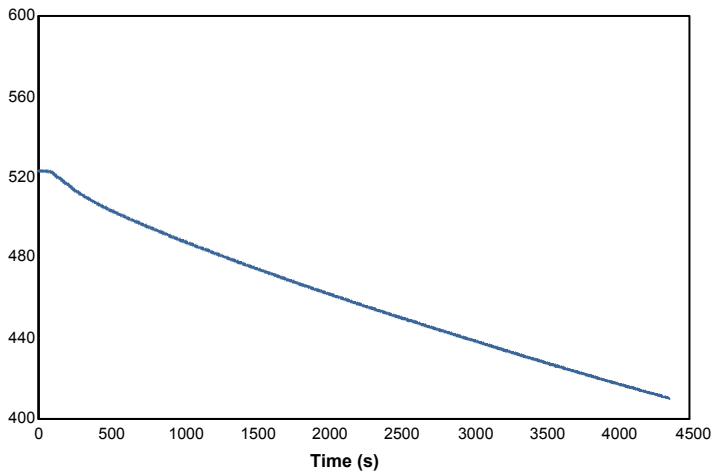
Mass loss rate (g/s)



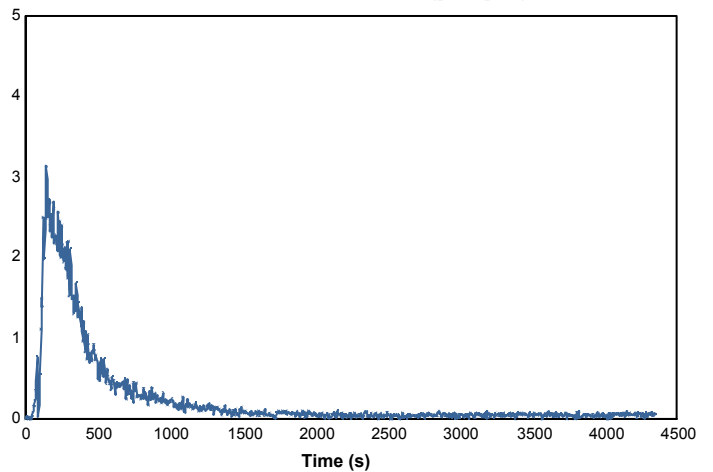
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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