

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 : Gunnersen Timbermark Pty Ltd
112 Salmon Street
Port Melbourne VIC 3207

Test Number : 19-002315
Issue Date : 02/08/2019
Print Date : 5/08/2019

Sample Description Clients Ref : "OSB3"
9mm Thick Particle Board
End Use : Interior Wall & Ceiling Linings
Nominal Composition : Timber
Nominal Thickness : 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 Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	49.0	57.7	53.9	53.5	kW/m ²
Average Specific extinction area	46.8	36.9	44.8	42.8	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	33	25	36	31	sec
Test duration	2480	1975	2120	2192	sec
Peak heat release after ignition	361.9	357.8	352.0	357.2	kW/m ²
Average heat at 60 s	144.0	137.4	150.8	144.0	kW/m ²
Average heat at 180 s	150.2	144.1	145.0	146.4	kW/m ²
Average heat at 300 s	193.9	187.5	180.3	187.2	kW/m ²
Total heat released	119.8	112.5	112.3	114.9	MJ/m ²

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APPROVED SIGNATORY

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Average effective heat of combustion	15.6	16.1	15.2	15.6	MJ/kg
Initial thickness	9	9	9	9.0	mm
Initial mass	63.2	58.4	63.7	61.8	g
Mass at sustained flaming	62.7	58.1	63.1	61.3	g
Mass remaining	1.0	1.9	3.6	2.2	g
Mass percentage pyrolysed	98.4	96.7	94.3	96.5	%
Mass loss	7.7	7.0	7.4	7.4	kg/m ²
Average rate of mass loss	3.1	3.6	3.6	3.4	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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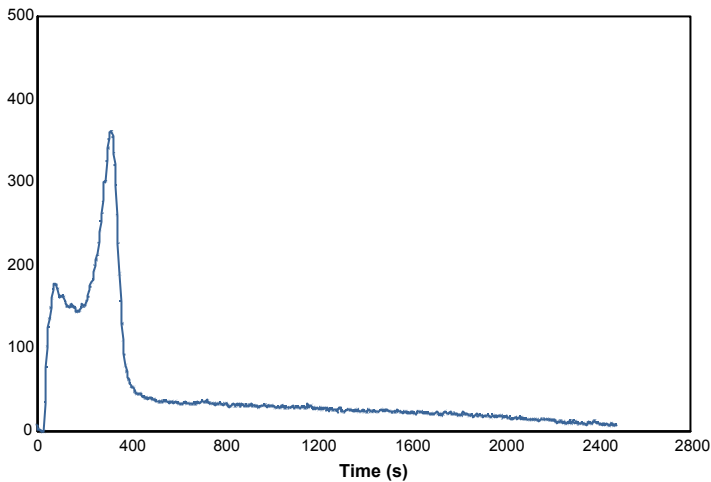
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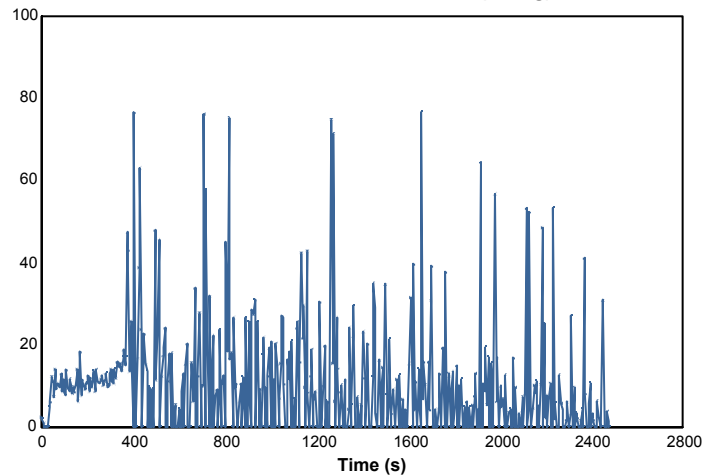
Test Number : 19-002315
Issue Date : 02/08/2019
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Specimen : 1

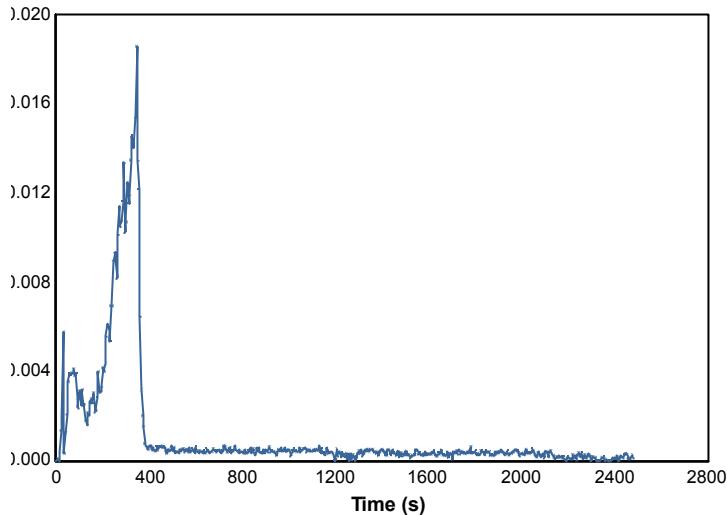
Heat release rate (kW/m²)



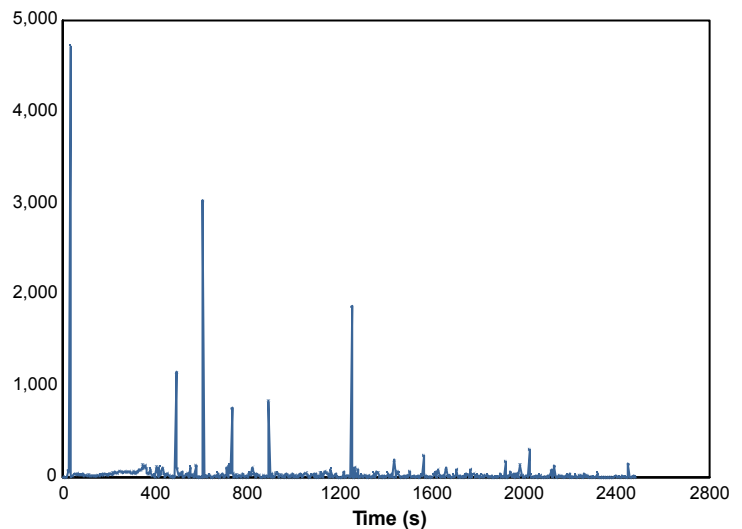
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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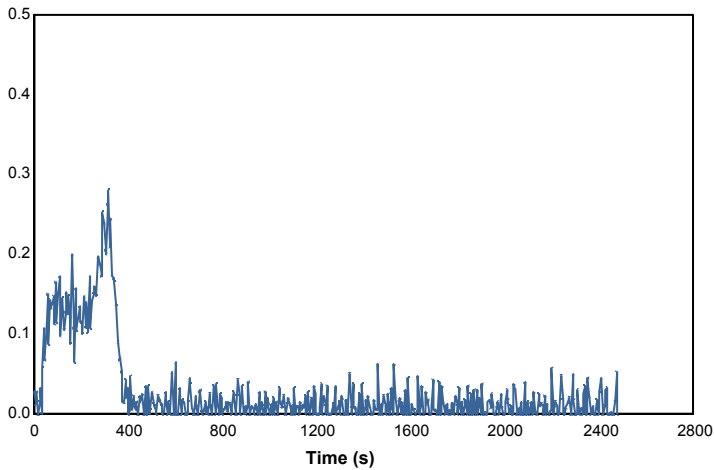
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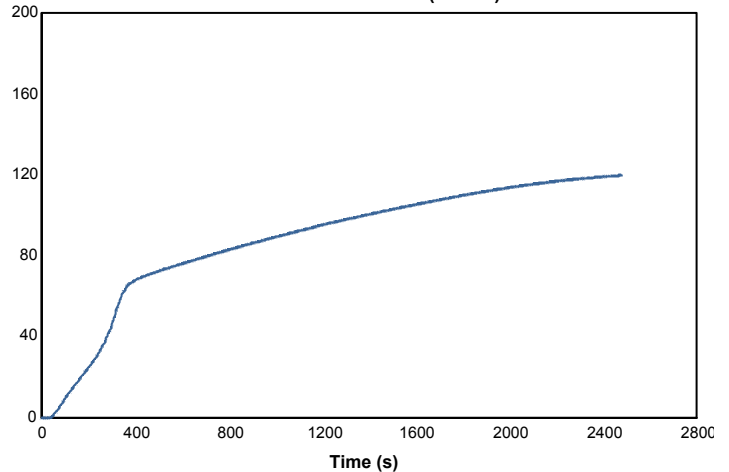
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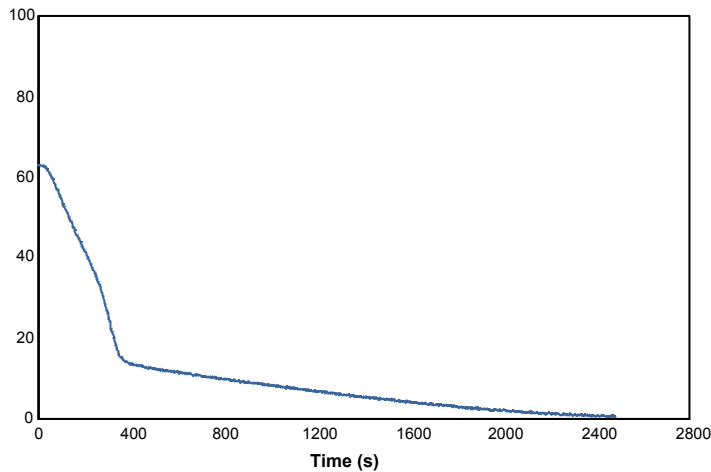
Mass loss rate (g/s)



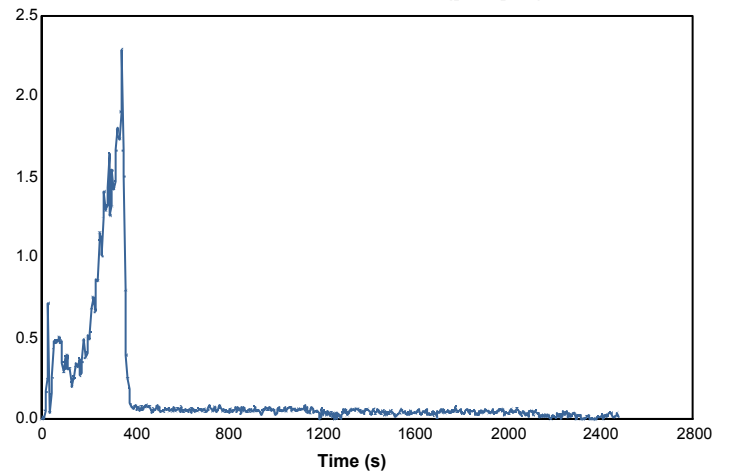
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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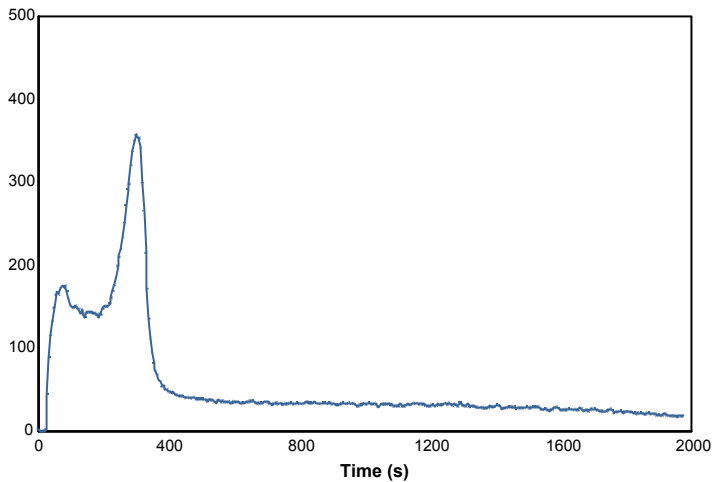
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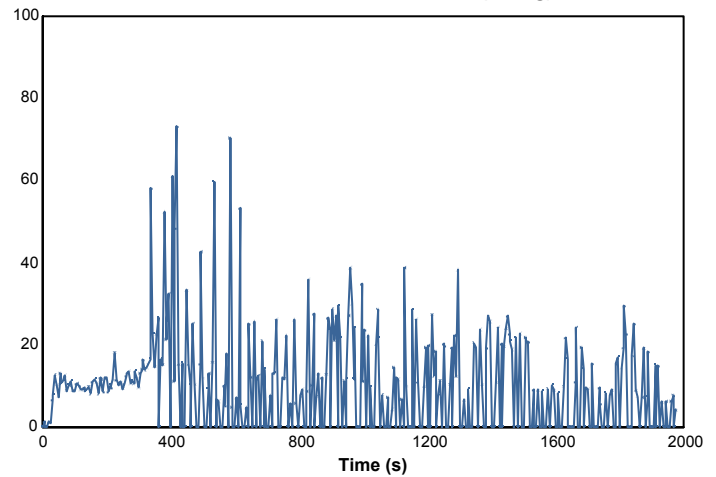
Test Number : 19-002315
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Specimen : 2

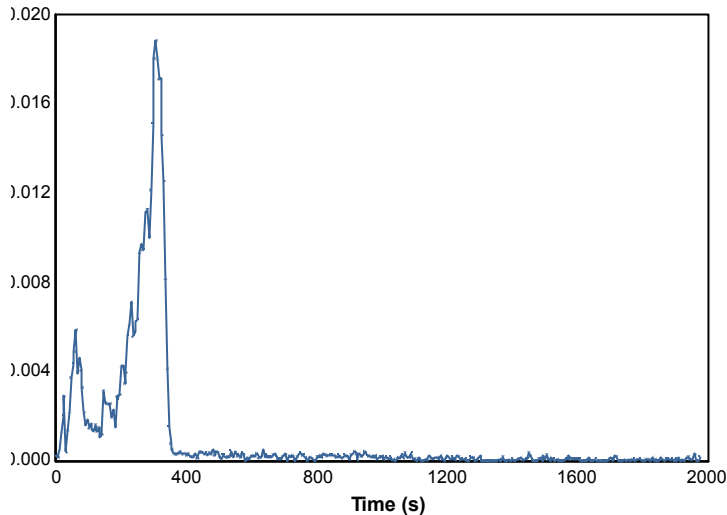
Heat release rate (kW/m²)



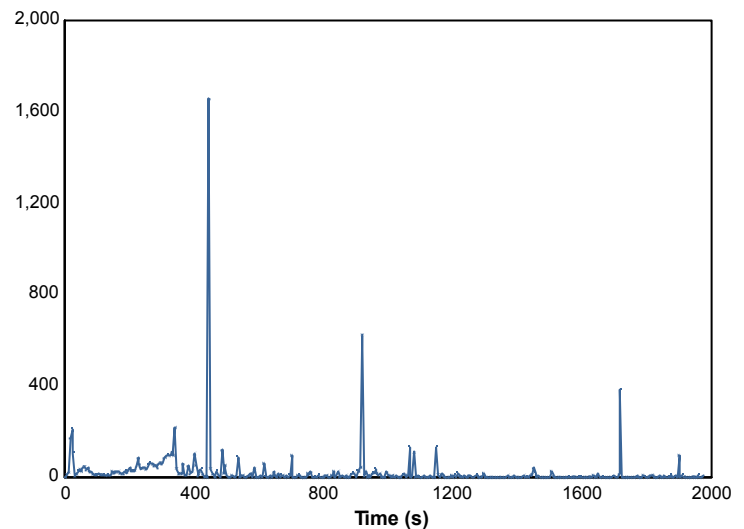
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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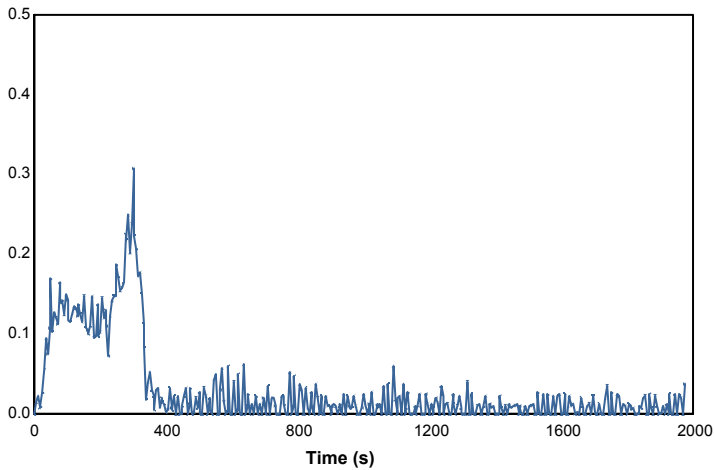
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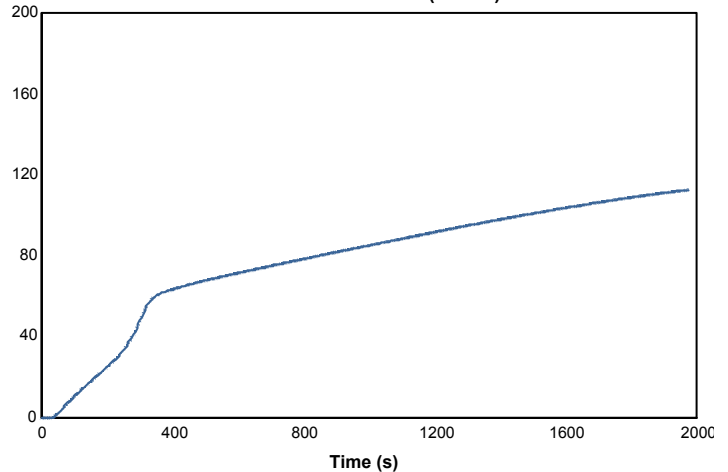
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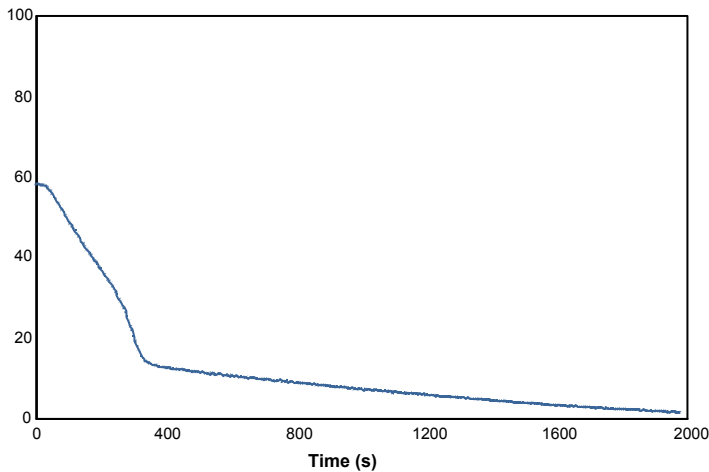
Mass loss rate (g/s)



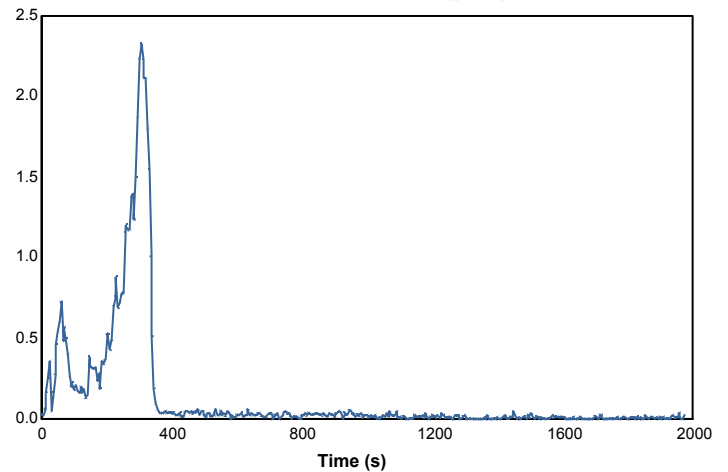
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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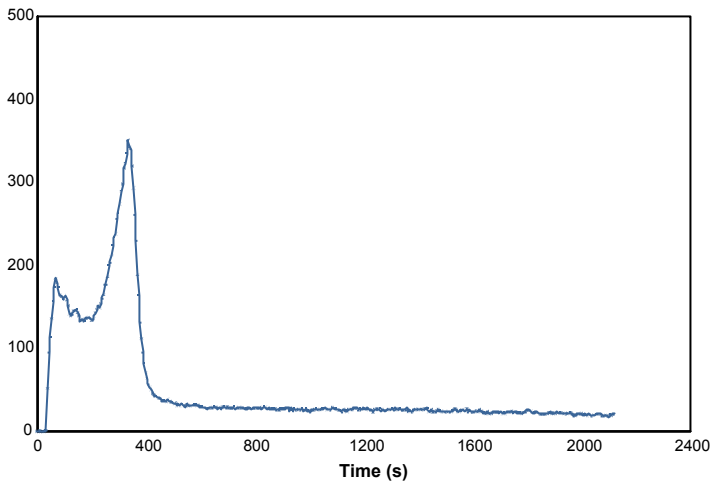
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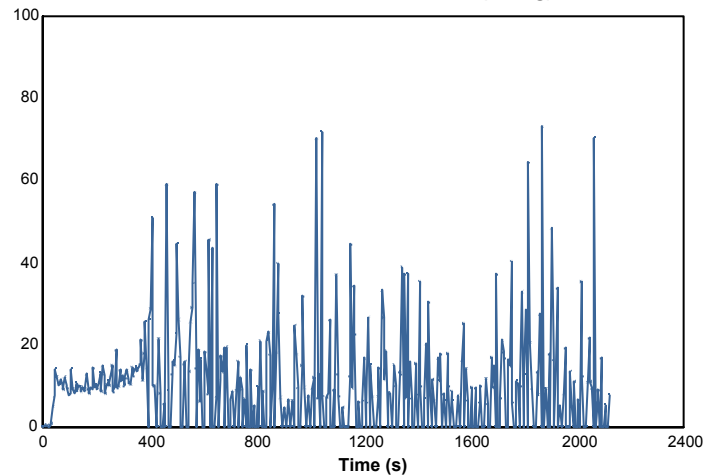
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Specimen : 3

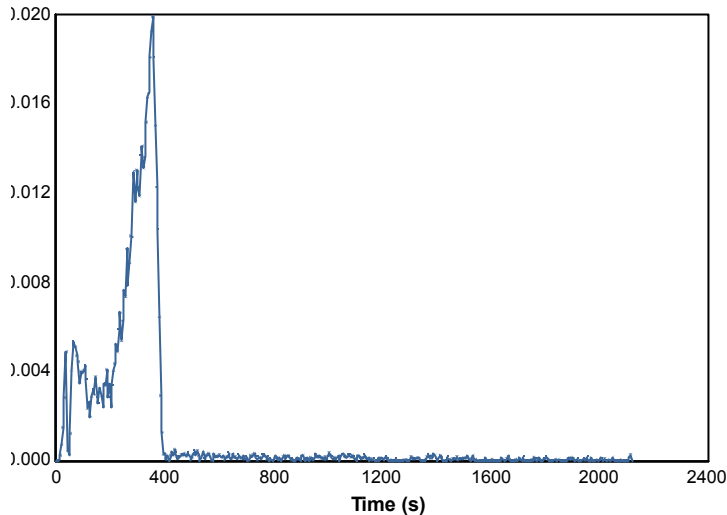
Heat release rate (kW/m²)



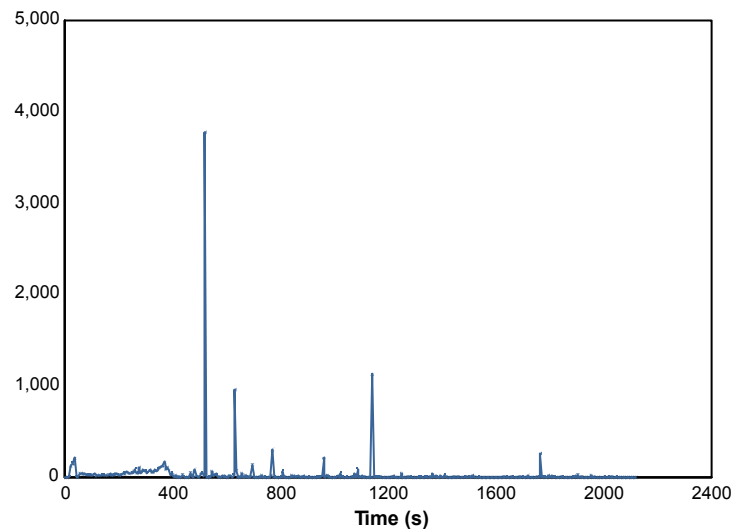
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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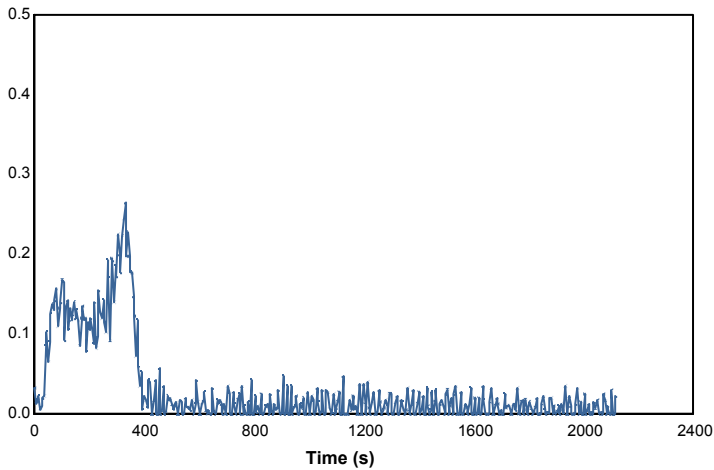
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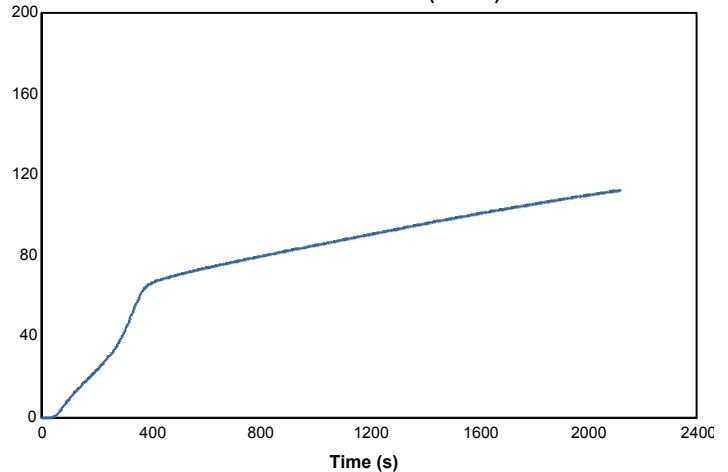
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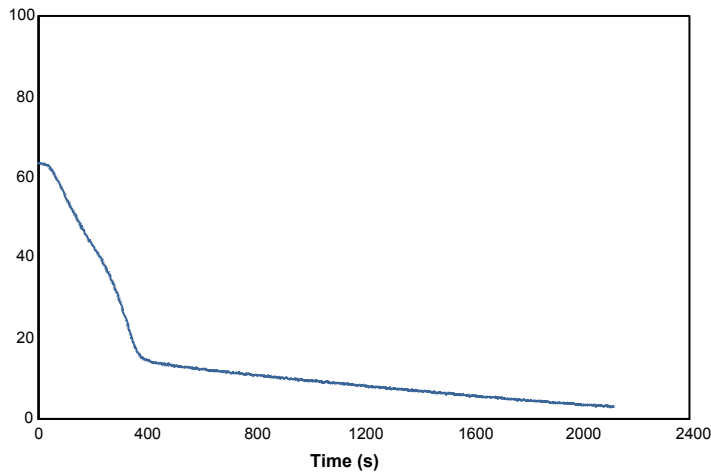
Mass loss rate (g/s)



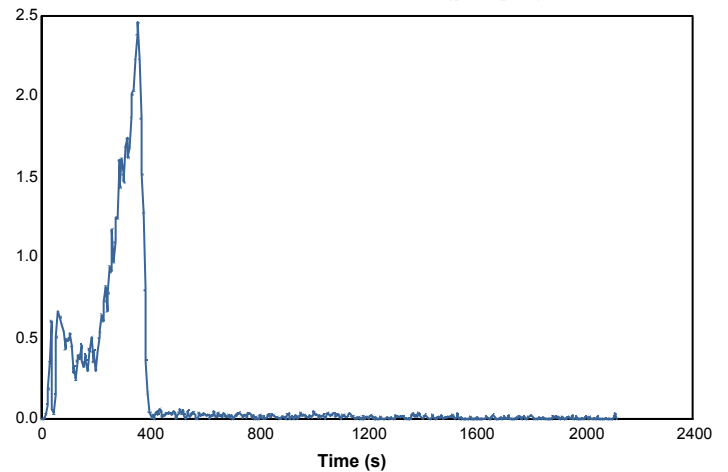
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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