

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 : Preference Floors
32 Britton Street
Smithfield NSW 2164

Test Number : 20-004191
Issue Date : 08/09/2020
Print Date : 9/09/2020

Sample Description Clients Ref : "Engineered Oak 15mm"
Engineered flooring planks
Colour : Oak
End Use : Cladding and Lining
Nominal Mass per Unit Area/Density : Approx 9.85kg/m2
Nominal Thickness : 15mm

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

Date Tested 08/09/2020
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	42.1	46.5	48.2	45.6	kW/m ²
Average Specific extinction area	21.2	20.9	33.3	25.1	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	16	23	23	21	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	195.0	188.0	202.3	195.1	kW/m ²
Average heat at 60 s	129.4	123.0	123.6	125.3	kW/m ²
Average heat at 180 s	120.3	118.0	120.5	119.6	kW/m ²
Average heat at 300 s	106.7	103.6	107.9	106.1	kW/m ²
Total heat released	150.6	166.1	172.5	163.1	MJ/m ²

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APPROVED SIGNATORY

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Average effective heat of combustion	13.5	14.6	15.3	14.5	MJ/kg
Initial thickness	15	15	15	15.0	mm
Initial mass	93.4	96.7	95.7	95.3	g
Mass remaining	3.2	4.4	4.0	3.9	g
Mass percentage pyrolysed	96.6	95.5	95.8	96.0	%
Mass loss	11.1	11.4	11.3	11.3	kg/m ²
Average rate of mass loss	3.1	3.2	3.2	3.2	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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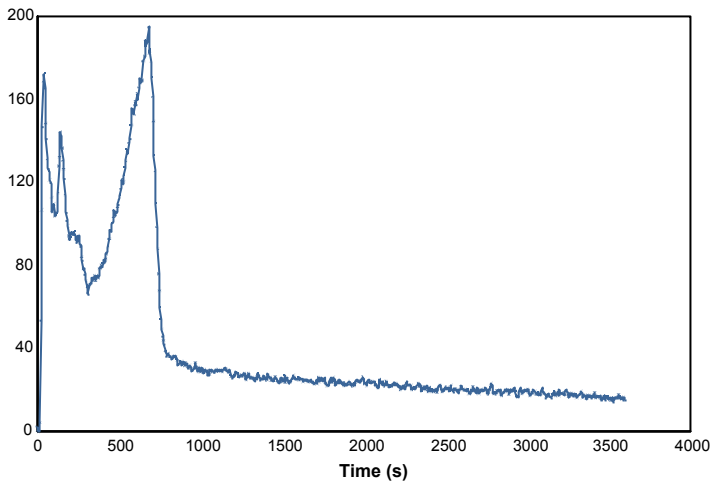
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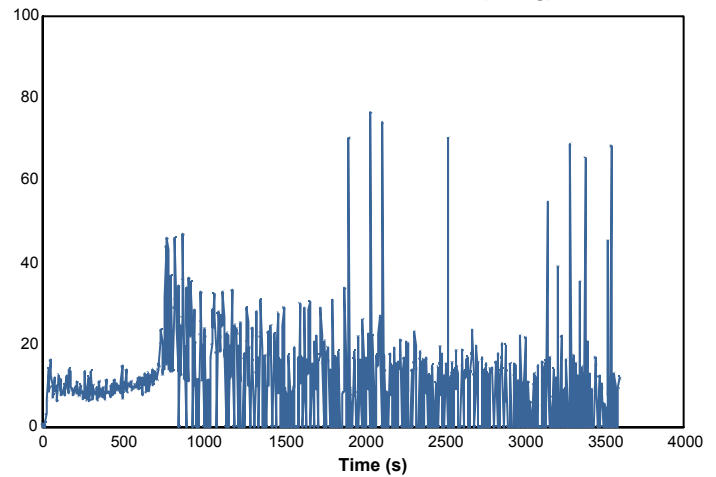
Test Number : 20-004191
Issue Date : 08/09/2020
Print Date : 9/09/2020

Specimen : 1

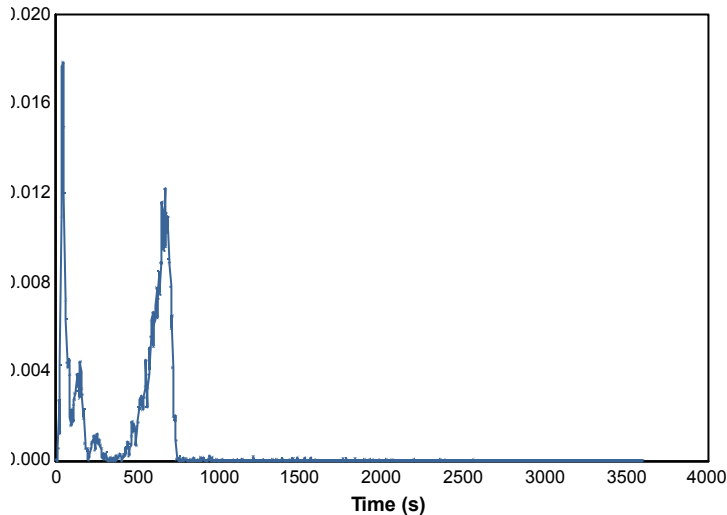
Heat release rate (kW/m²)



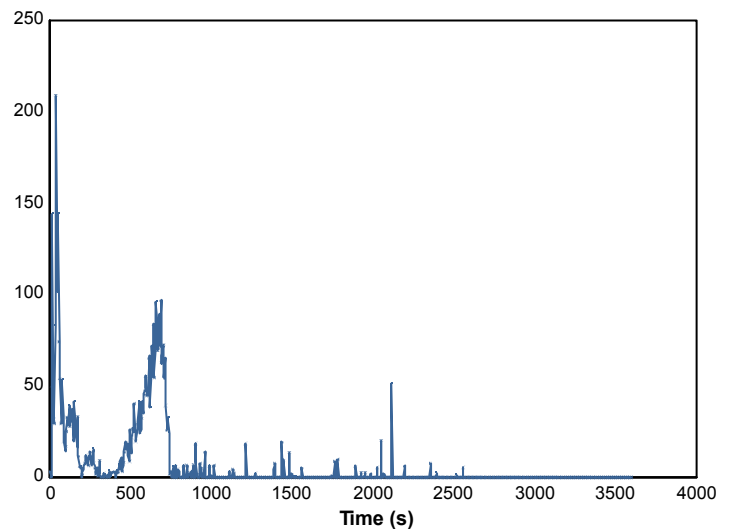
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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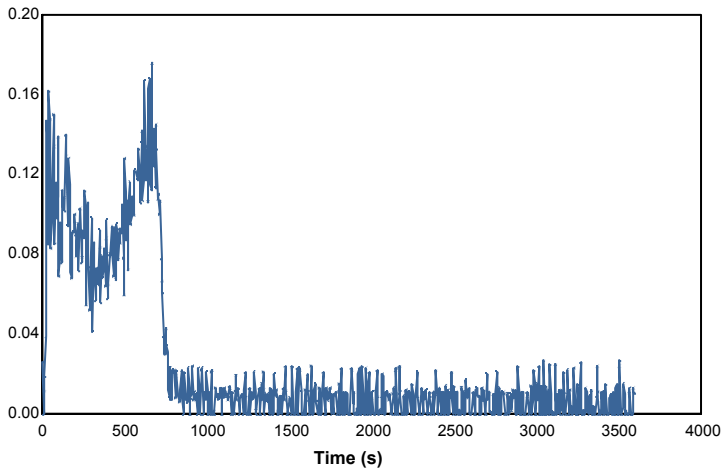
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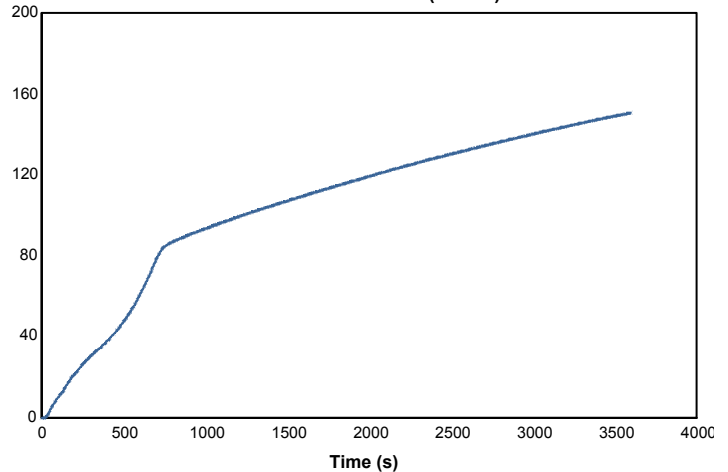
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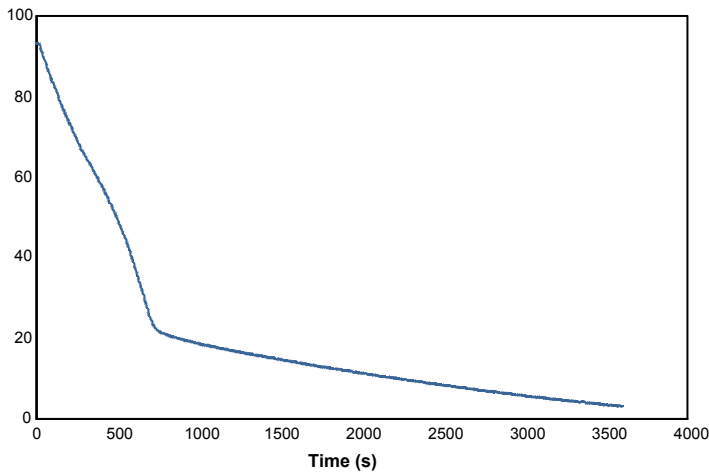
Mass loss rate (g/s)



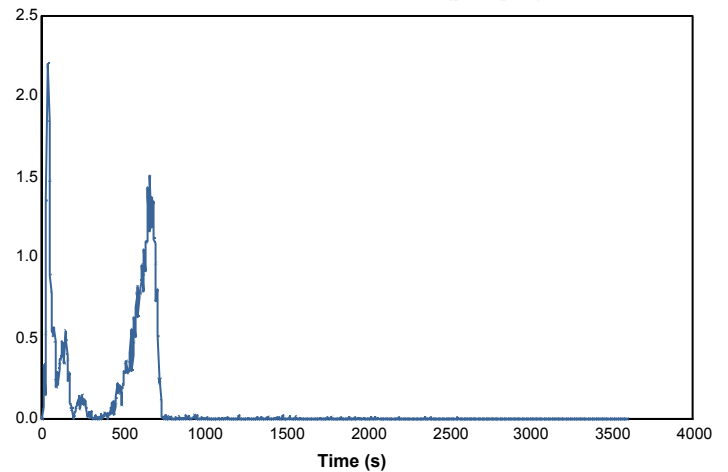
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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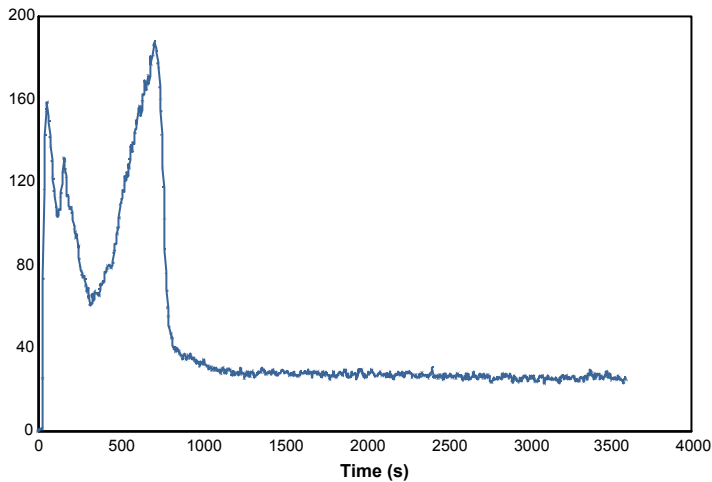
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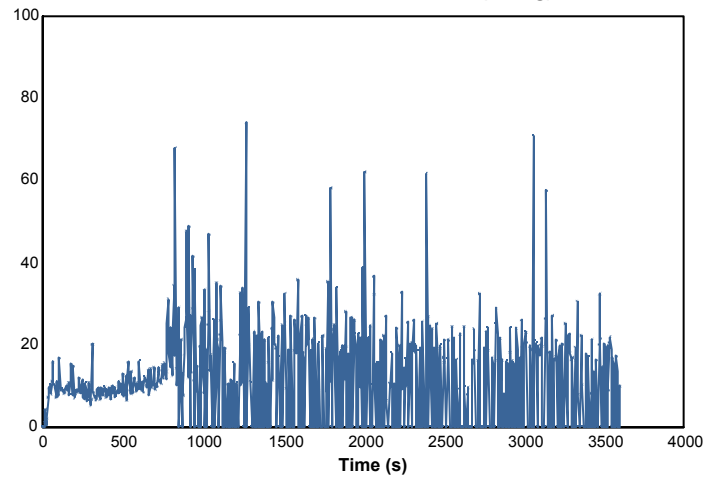
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Specimen : 2

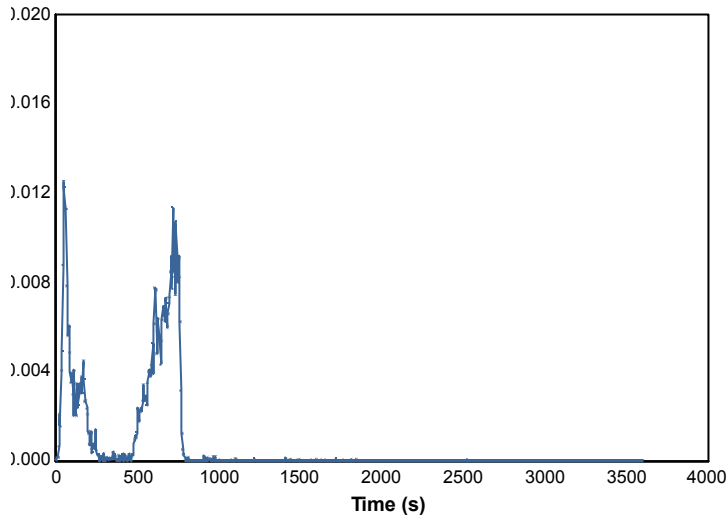
Heat release rate (kW/m²)



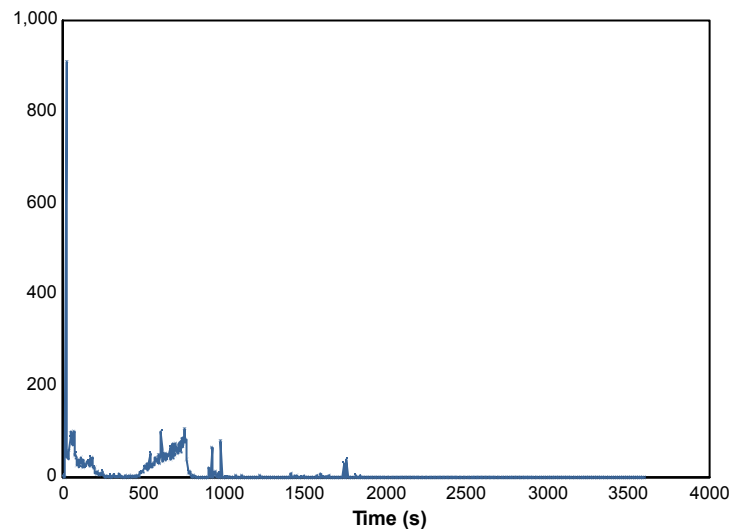
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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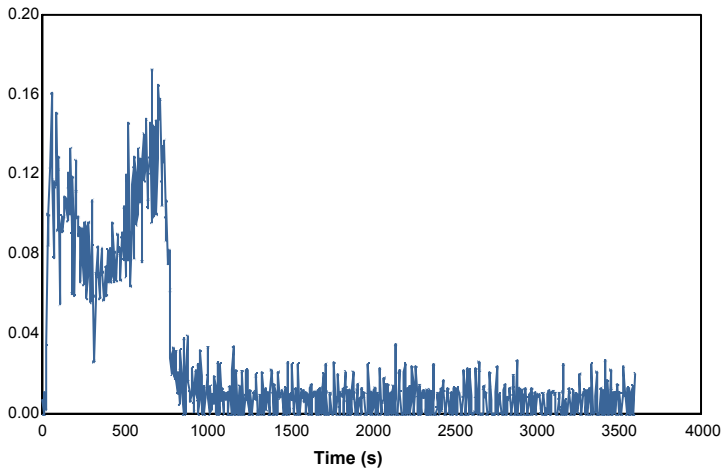
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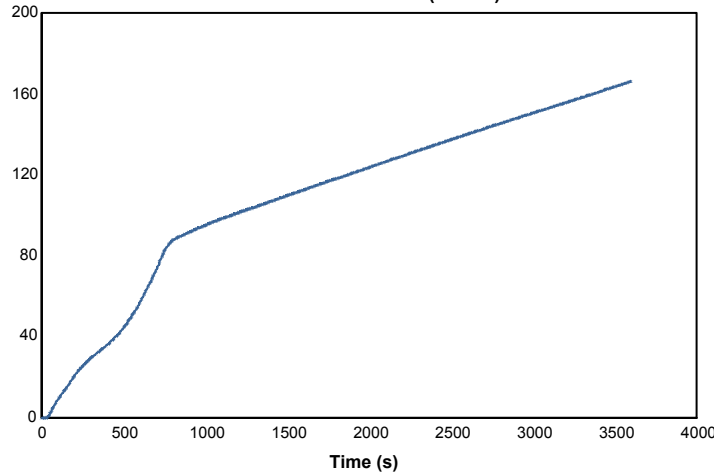
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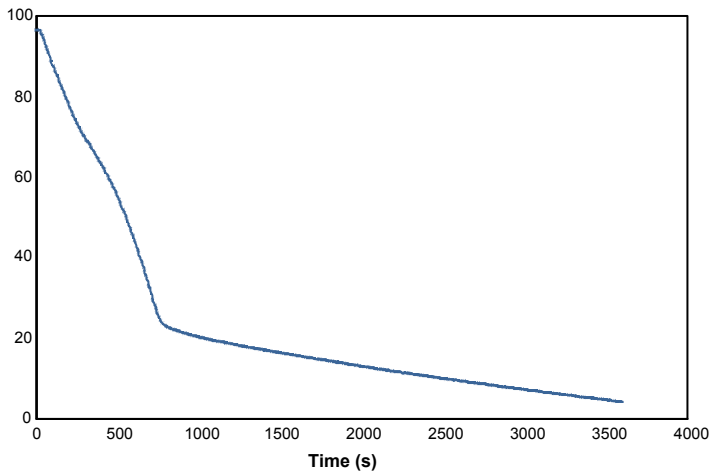
Mass loss rate (g/s)



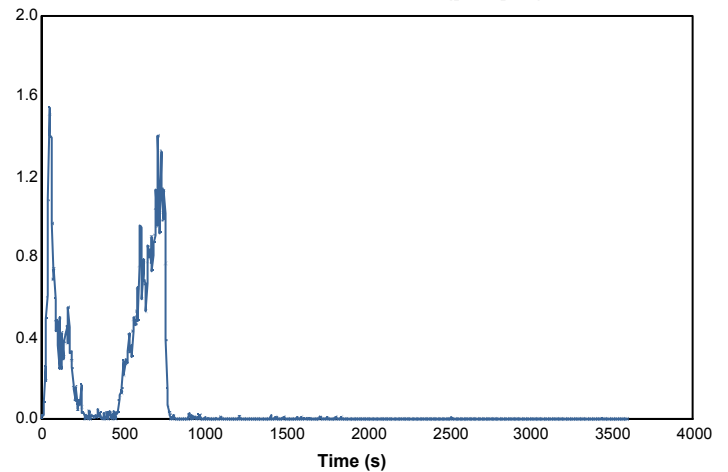
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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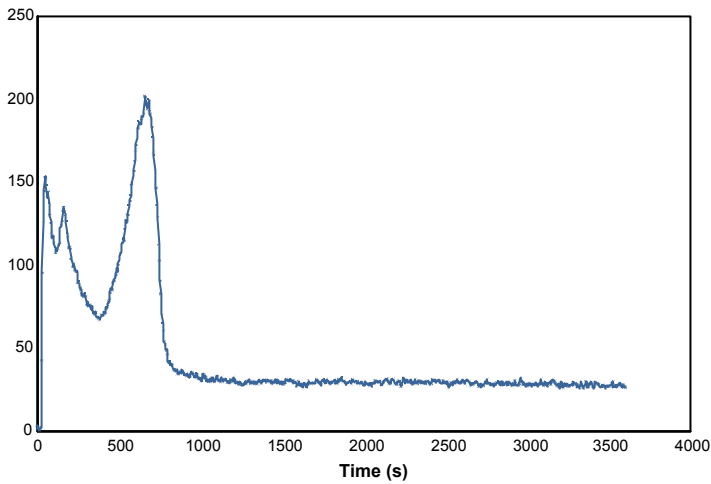
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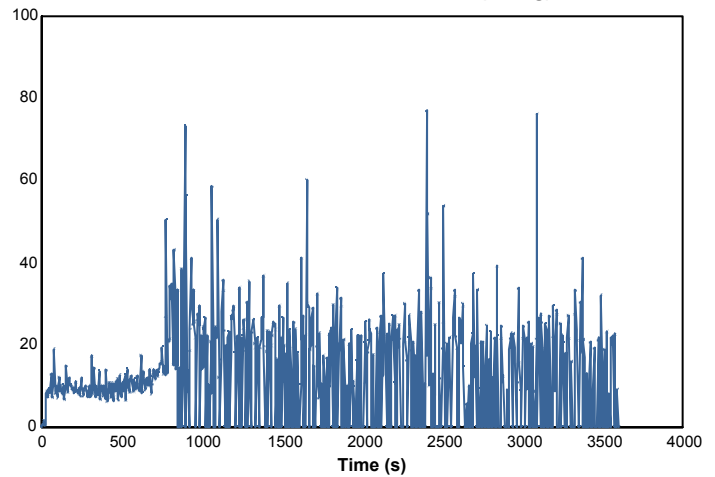
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Specimen : 3

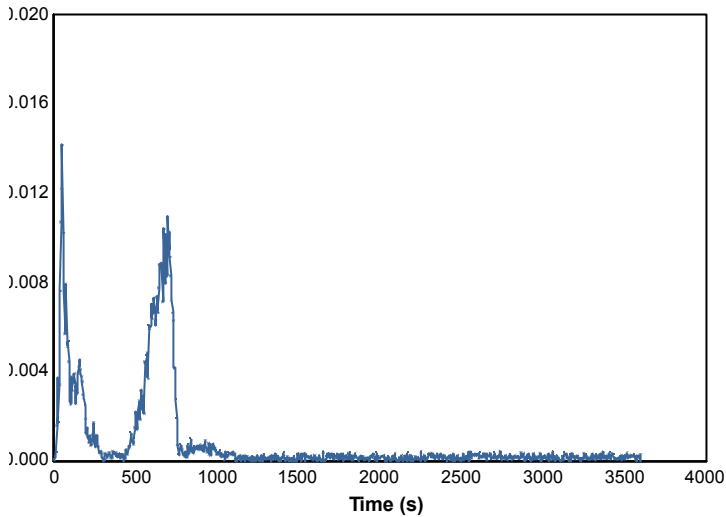
Heat release rate (kW/m²)



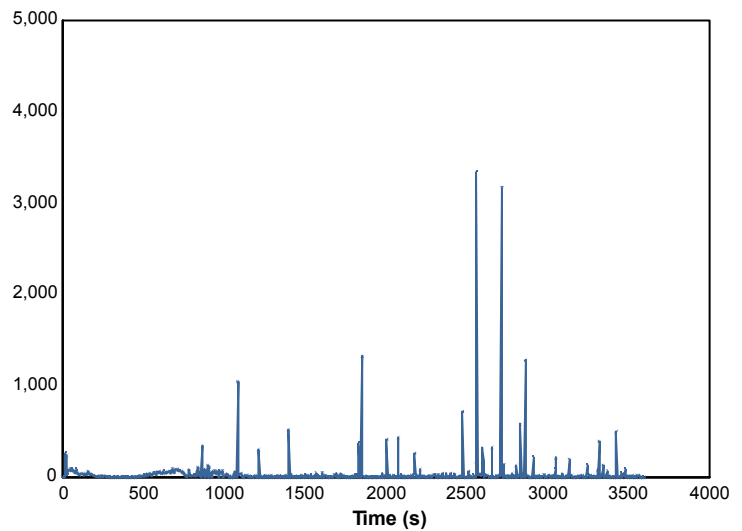
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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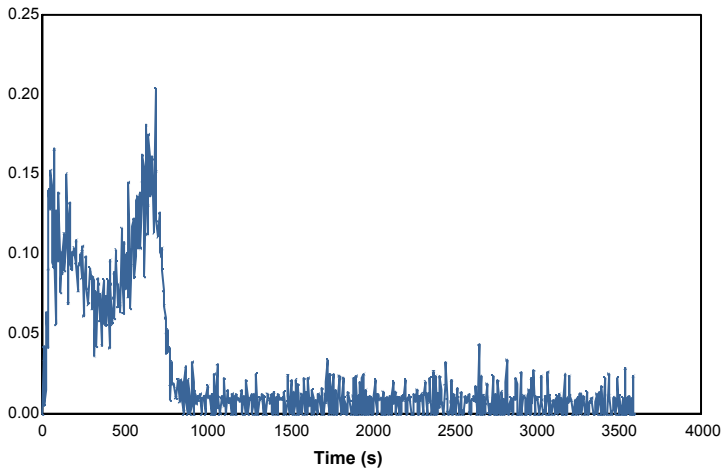
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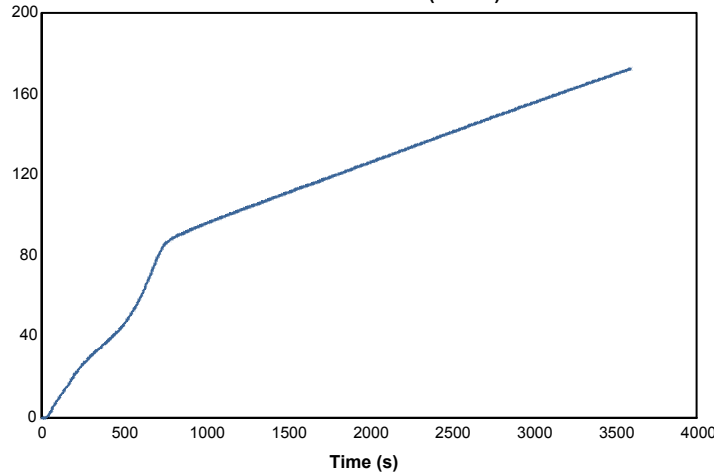
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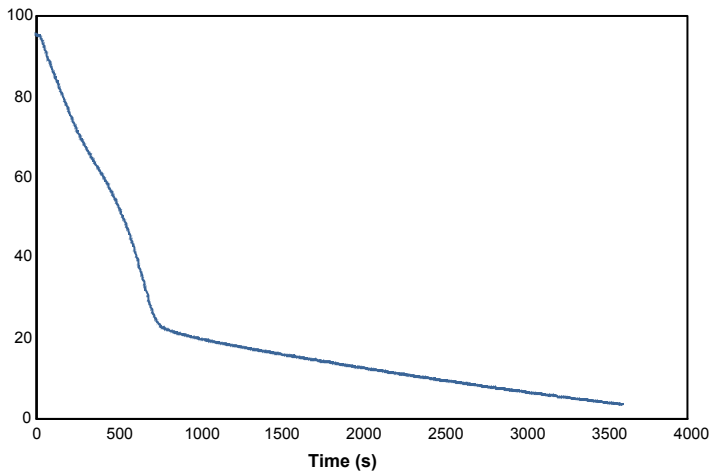
Mass loss rate (g/s)



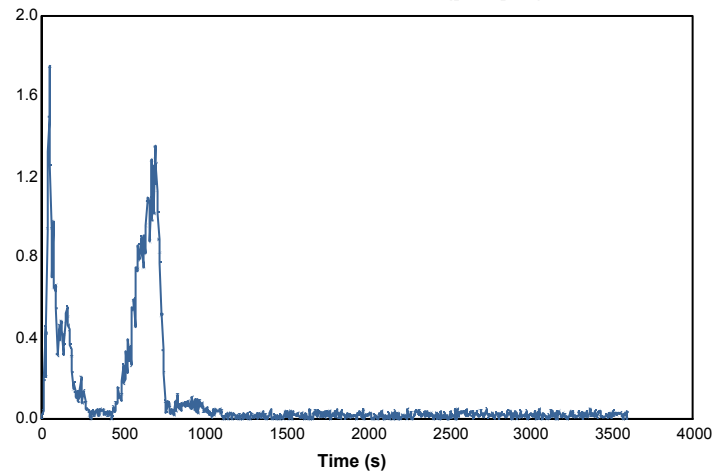
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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