

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 : Australian Wood Company Pty Ltd
7 Ladebroke Street
Milperra NSW 2214

Test Number : 24-004538
Issue Date : 25/11/2024
Print Date : 25/11/2024

Sample Description

Clients Ref : "Brumby Range Kakadu Vinyl Plank Flooring"

Vinyl flooring plank

Colour : Timber look

End Use : Flooring

Nominal Composition : Polyvinyl chloride resin

Nominal Mass per Unit Area/Density : 1300 - 1500 kg/m³

Nominal Thickness : 5mm



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Accreditation Numbers: 983, 985, and 1356



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Fiona McDonald

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 22-11-2024
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	67.6	63.0	66.4	65.7	kW/m ²
Average Specific extinction area	247.4	231.8	242.5	240.6	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	43	44	36	41	sec
Test duration	982	954	950	962	sec
Peak heat release after ignition	127.9	125.6	130.4	128.0	kW/m ²
Average heat at 60 s	110.1	109.7	118.1	112.6	kW/m ²
Average heat at 180 s	113.7	111.5	109.5	111.6	kW/m ²
Average heat at 300 s	102.1	96.8	97.2	98.7	kW/m ²
Total heat released	63.6	57.3	60.6	60.5	MJ/m ²
Average effective heat of combustion	11.3	10.6	11.0	11.0	MJ/kg
Initial thickness	15	15	15	15.0	mm
Initial mass	148.6	148.2	147.2	148.0	g
Mass remaining	103.1	104.2	102.9	103.4	g
Mass percentage pyrolysed	30.6	29.7	30.1	30.1	%

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Mass loss	5.6	5.4	5.5	5.5	kg/m ²
Average rate of mass loss	6.0	5.9	6.0	6.0	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Samples were adhered to a substrate of 6mm thick cement sheet using Roberts 656 wallcovering adhesive prior to testing

Retainer grid was used to contain the test specimen within the sample holder

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 fire hazard under all fire conditions.

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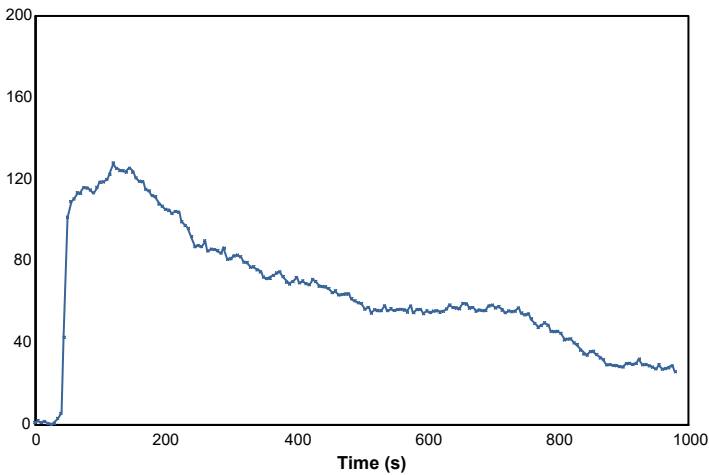
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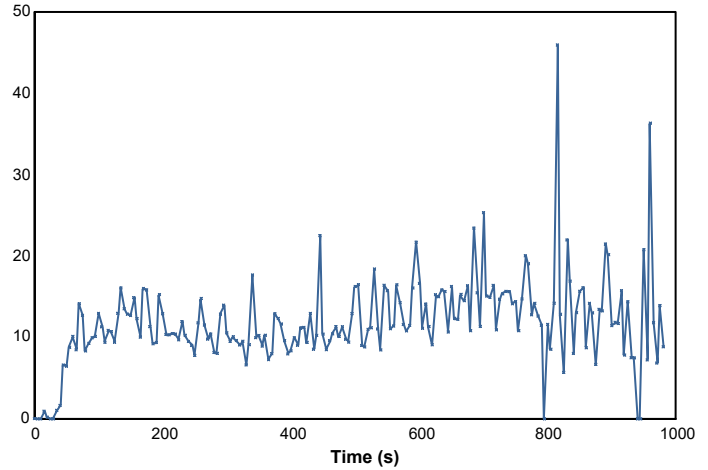
Test Number : 24-004538
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Specimen : 1

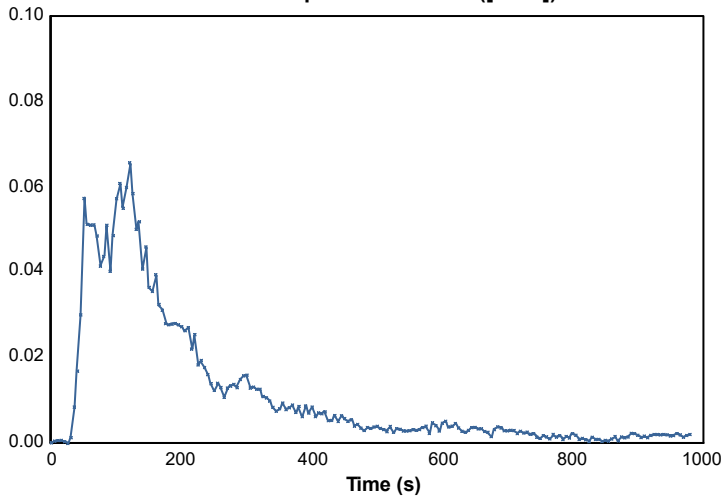
Heat release rate (kW/m²)



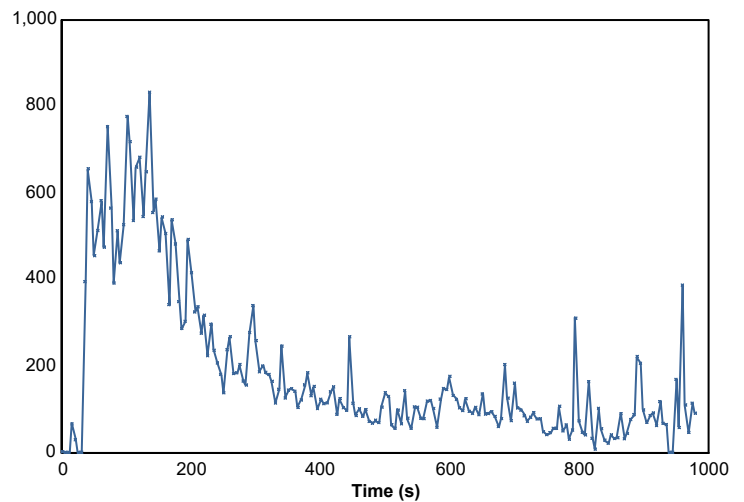
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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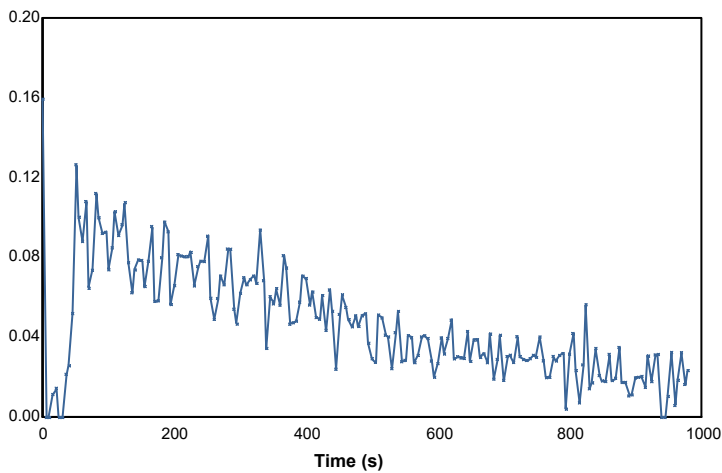
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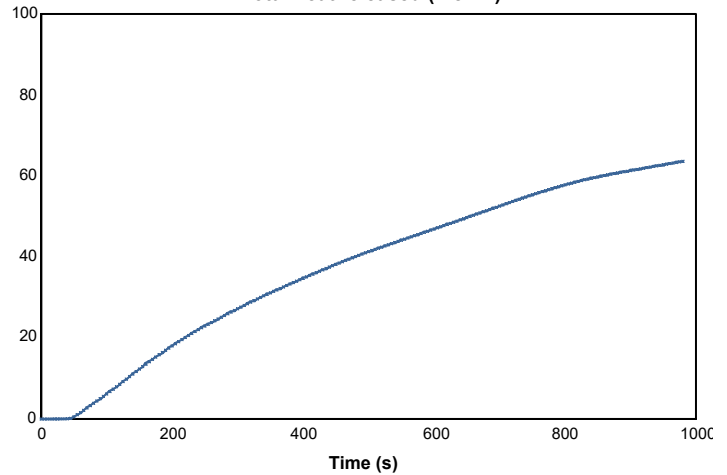
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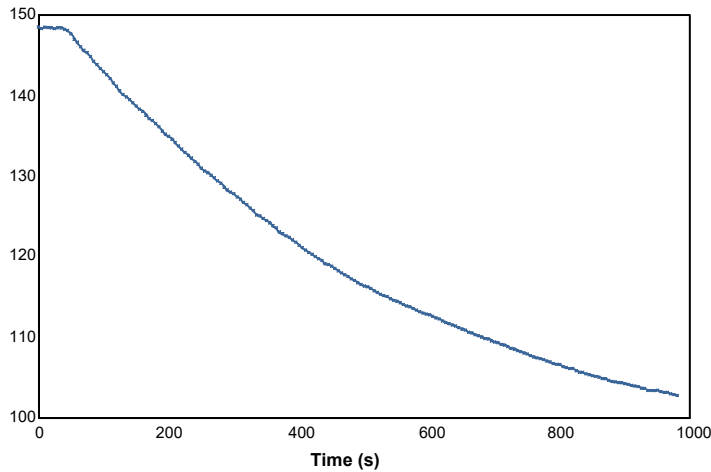
Mass loss rate (g/s)



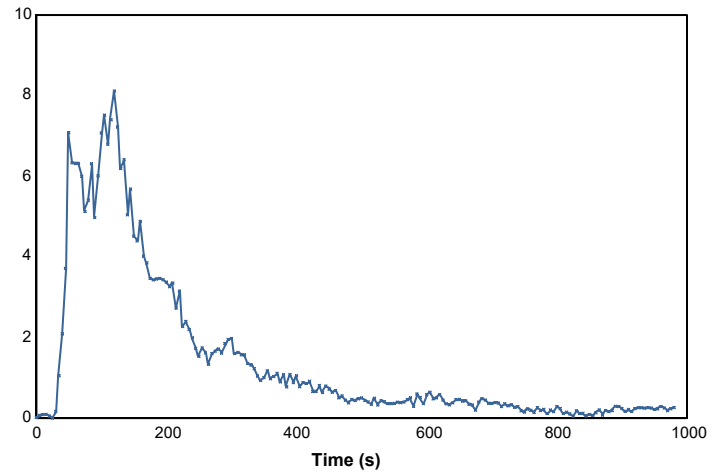
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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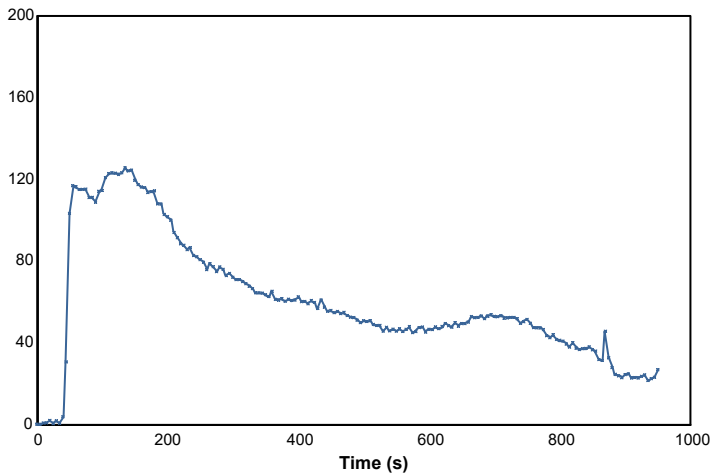
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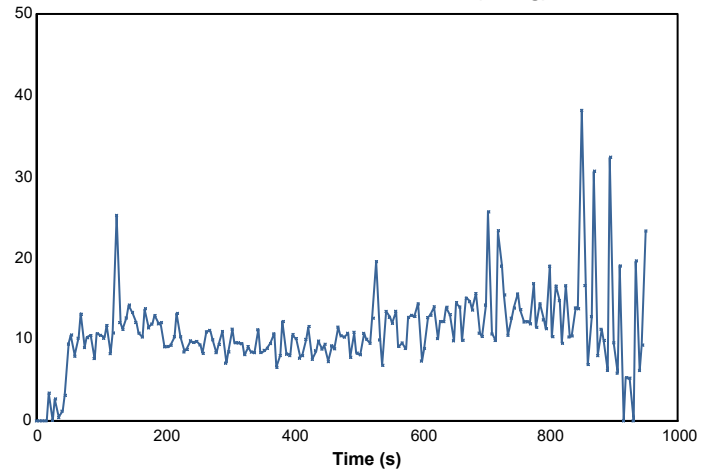
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Specimen : 2

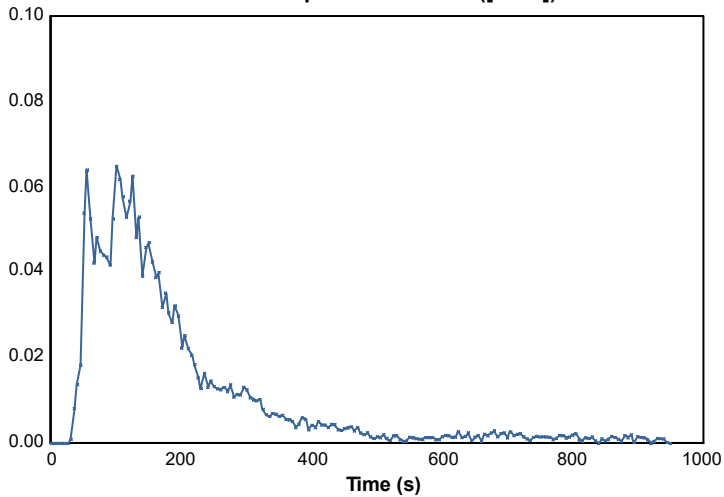
Heat release rate (kW/m²)



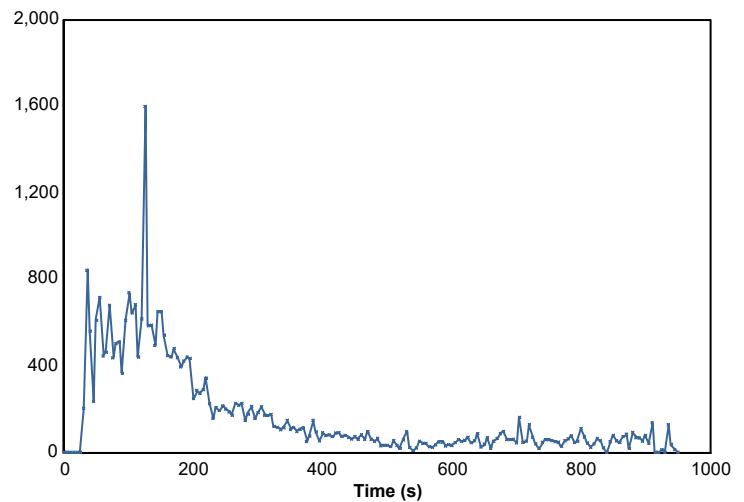
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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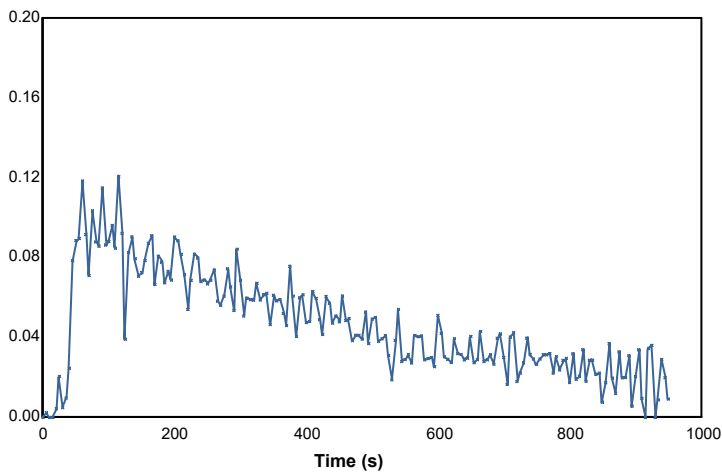
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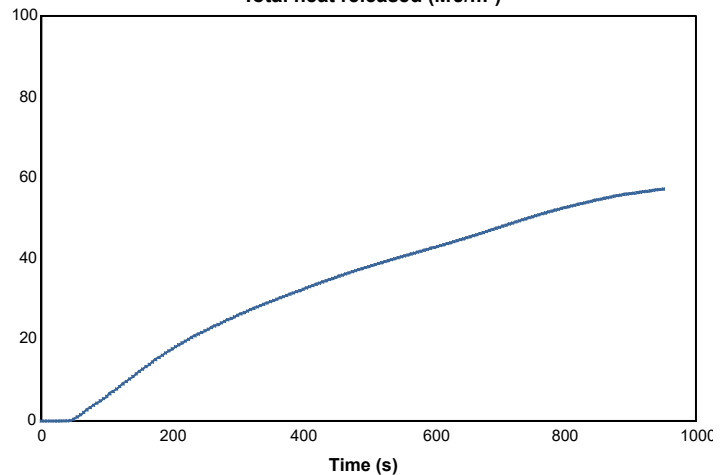
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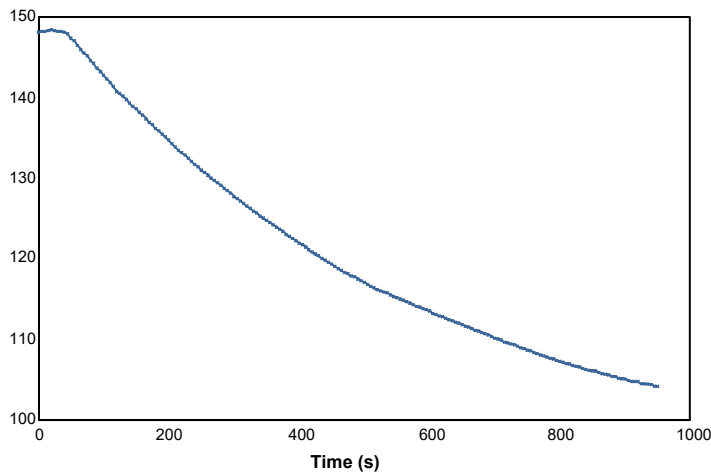
Mass loss rate (g/s)



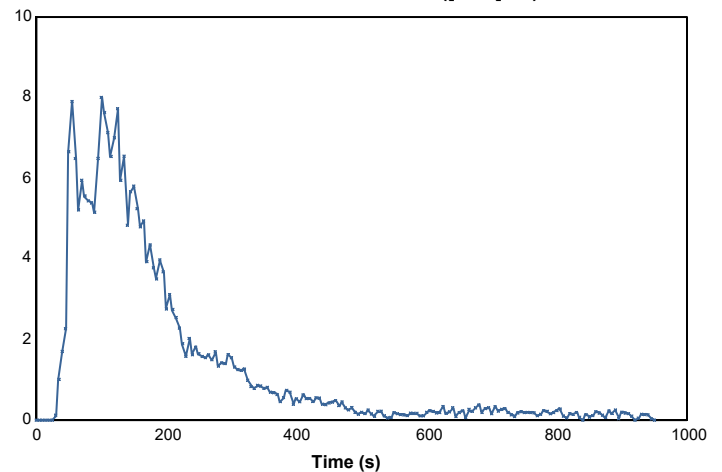
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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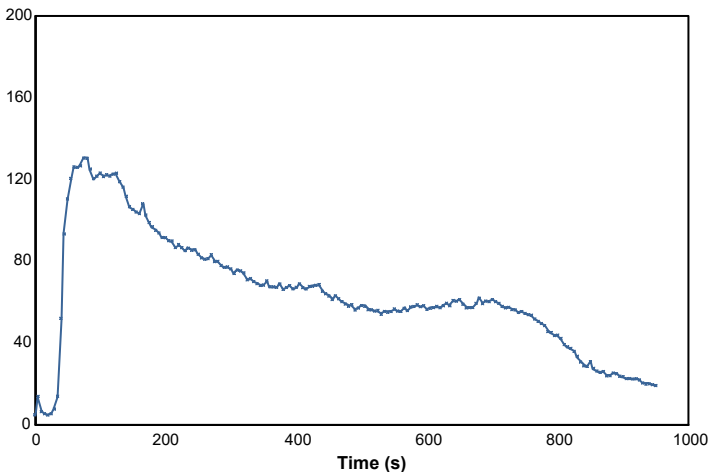
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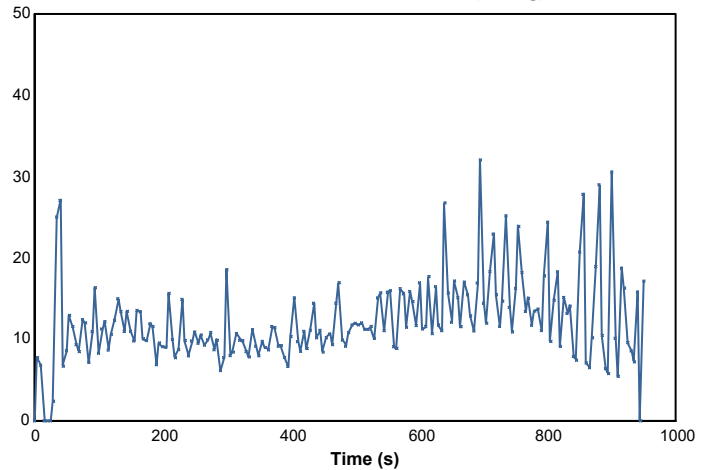
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Specimen : 3

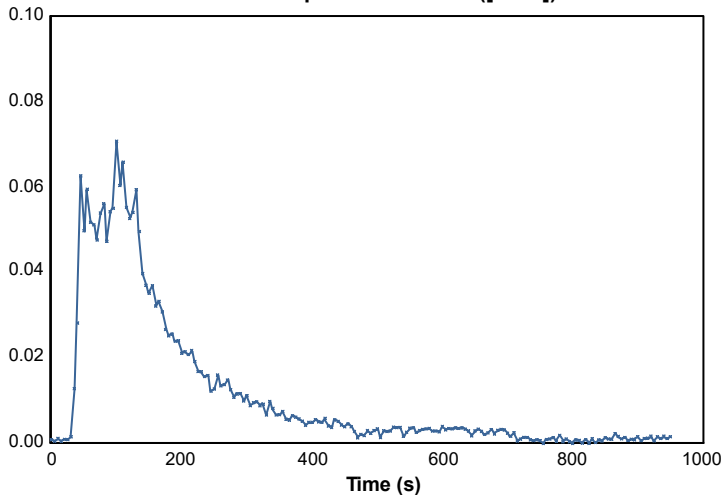
Heat release rate (kW/m²)



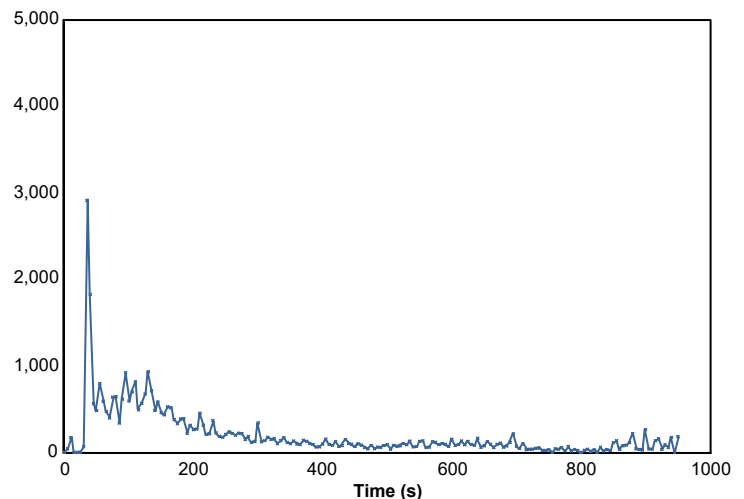
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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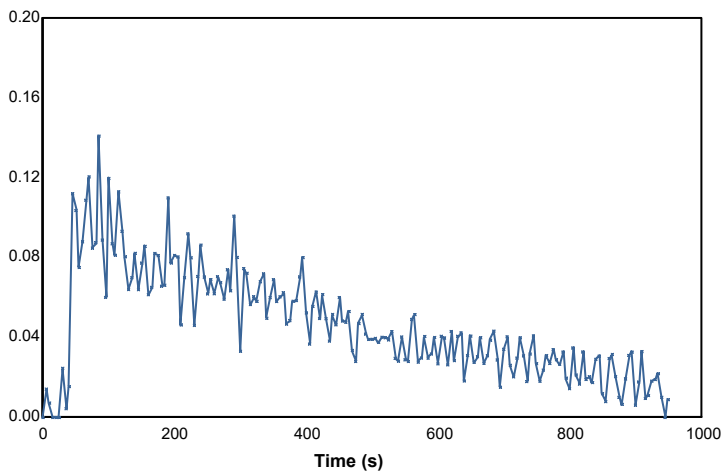
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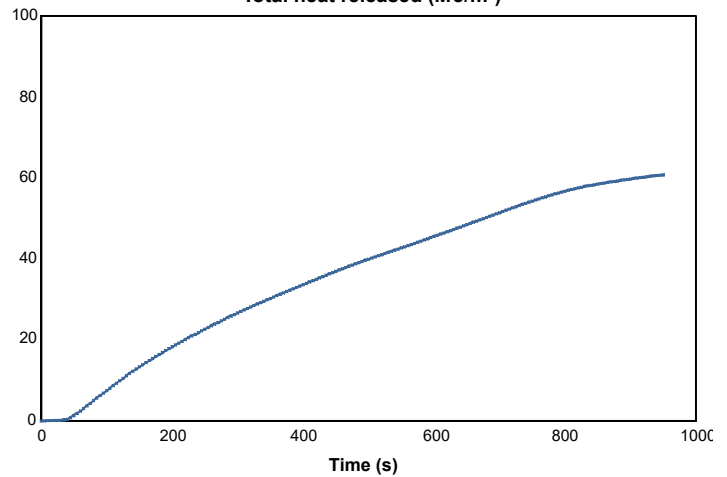
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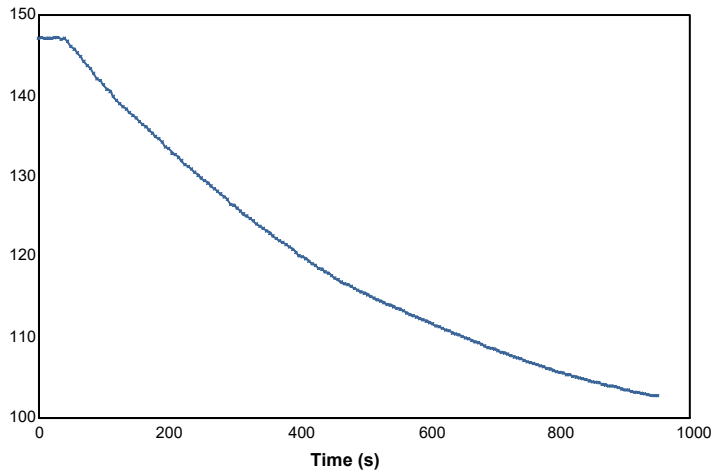
Mass loss rate (g/s)



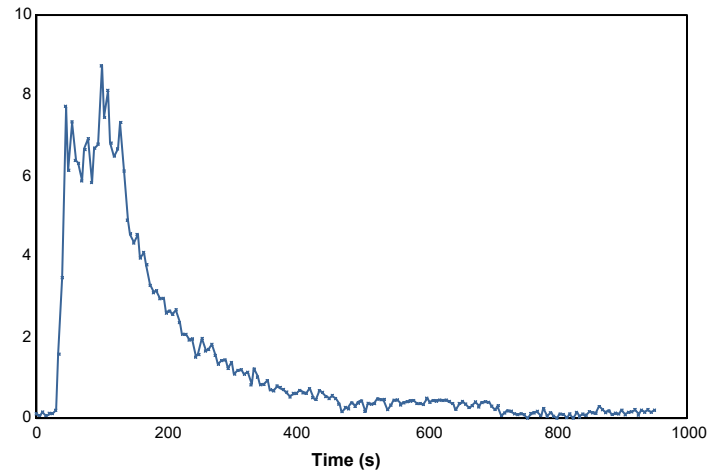
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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