

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 : Verosol
21 Amour Street
Revesby NSW 2212

Test Number : 24-000692
Issue Date : 02/04/2024
Print Date : 9/04/2024
Order Number : 043369-1

Sample Description

Clients Ref : "329 Kore"
Coated Twill Weave Fabric
Colour : Ink
End Use : Internal/External Blinds, Awnings
Nominal Composition : 58% PVC, 42% Glass fibre
Nominal Mass per Unit Area/Density : 515g/m2
Nominal Thickness : 0.73mm



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Accreditation Numbers: 983, 985, and 1356

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Chris Campbell

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 03-04-2024
Operator AWTA Test Operator 2
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	19.5	17.0	18.4	18.3	kW/m ²
Average Specific extinction area	254.6	297.6	272.0	274.8	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	5	7	5	6	sec
Test duration	187	189	187	188	sec
Peak heat release after ignition	93.7	72.7	90.2	85.5	kW/m ²
Average heat at 60 s	29.7	24.2	27.5	27.1	kW/m ²
Average heat at 180 s	19.8	17.0	18.6	18.5	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.6	3.2	3.4	3.4	MJ/m ²
Average effective heat of combustion	10.5	8.9	9.5	9.6	MJ/kg
Initial thickness	1	1	1	1.0	mm
Initial mass	5.2	5	5	5.1	g
Mass remaining	2.4	1.9	2.2	2.2	g
Mass percentage pyrolysed	53.5	61.6	56.4	57.2	%

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Mass loss	0.3	0.4	0.3	0.4	kg/m ²
Average rate of mass loss	1.8	1.9	1.9	1.9	g/m ² .s

Additional Observations Transitory flaming and outgassing. Igniter in place for duration of test

Difficulties Encountered during Testing Nil

Tests were conducted with a simulated airgap, consisting of the sample resting on a wire grid followed by a 12mm spacer.

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 the fire hazard under all fire conditions.

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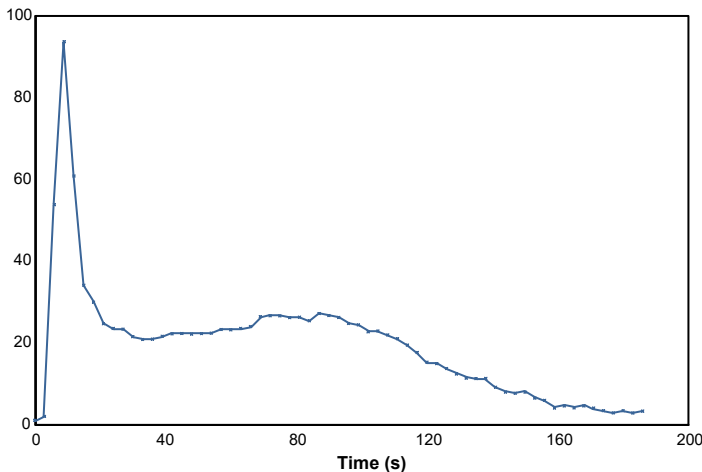
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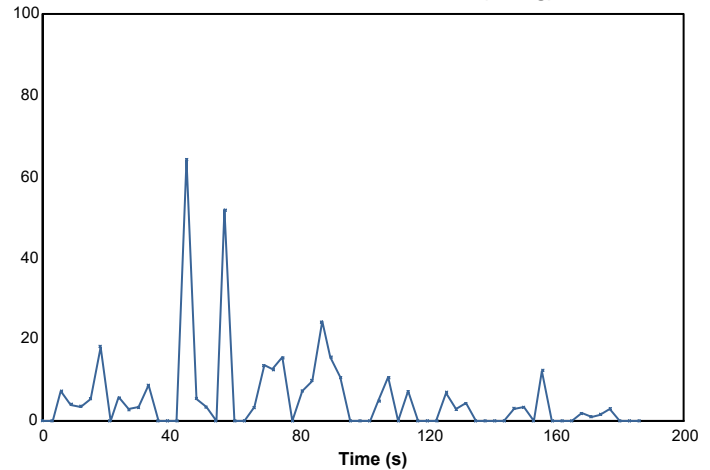
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Specimen : 1

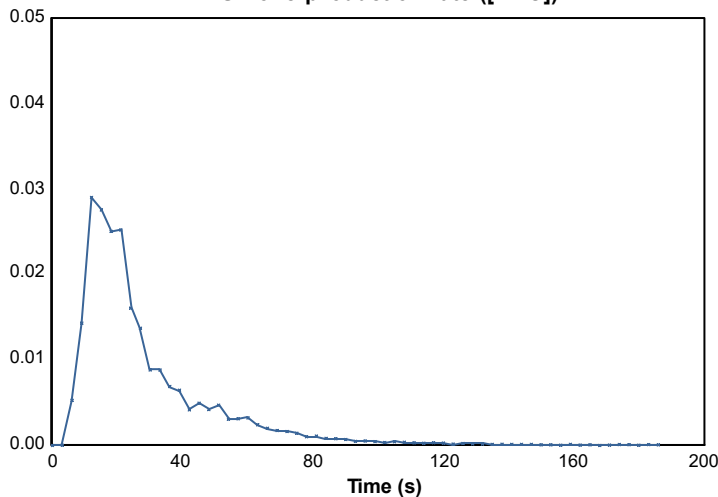
Heat release rate (kW/m²)



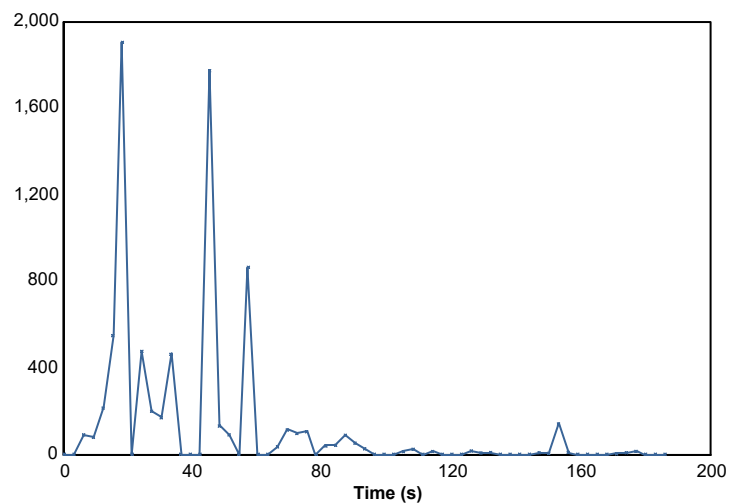
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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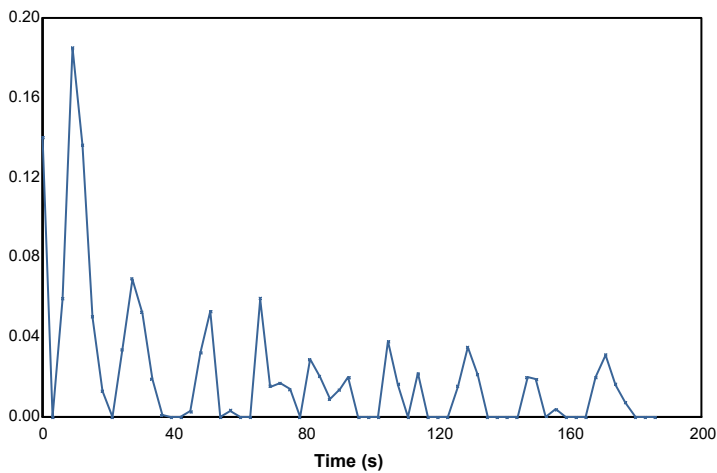
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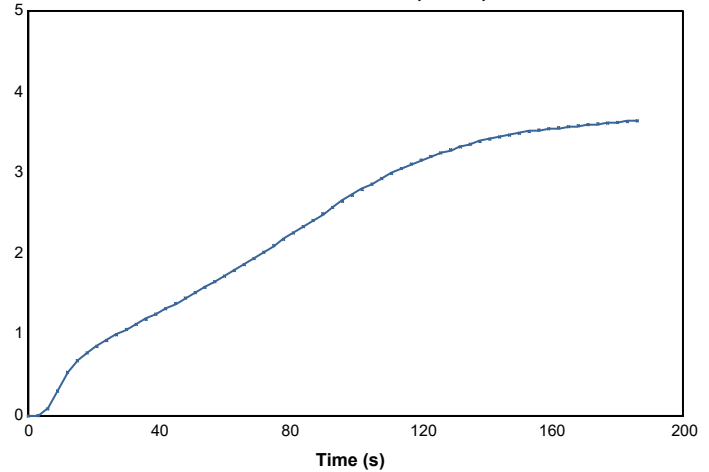
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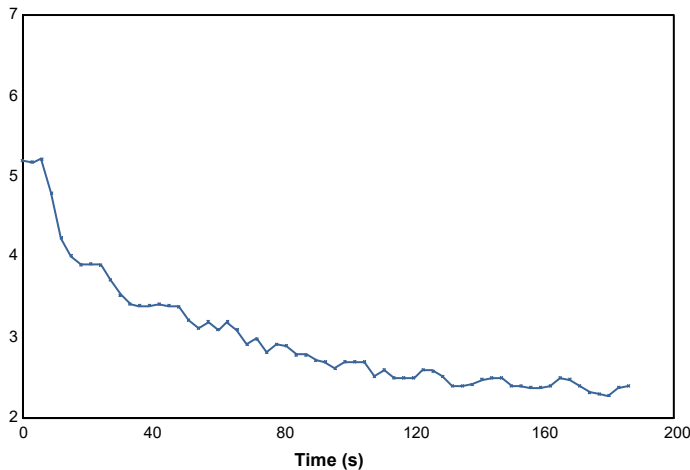
Mass loss rate (g/s)



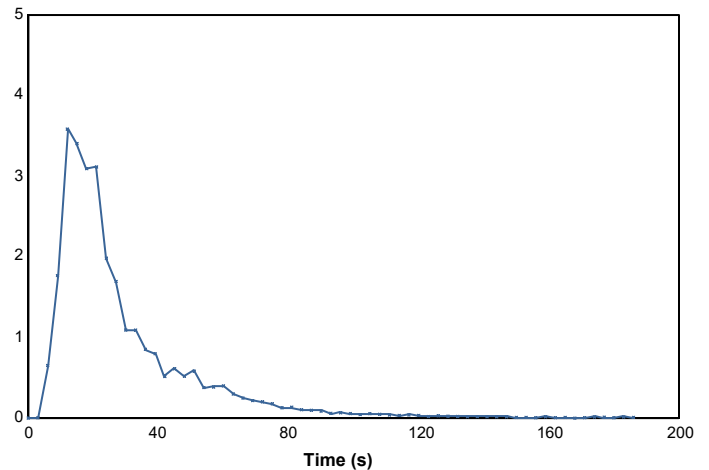
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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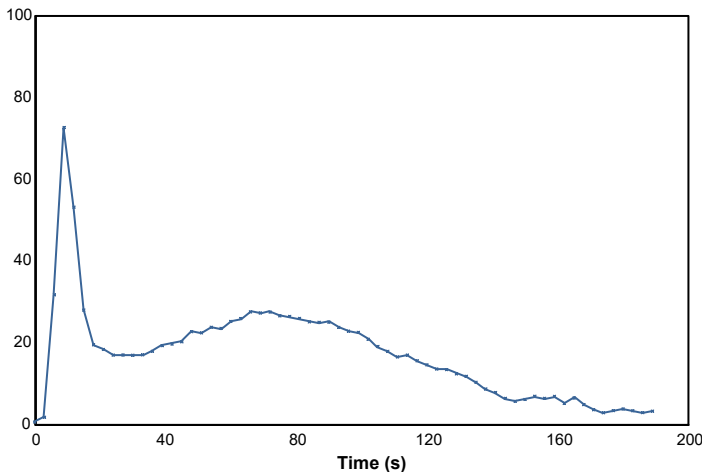
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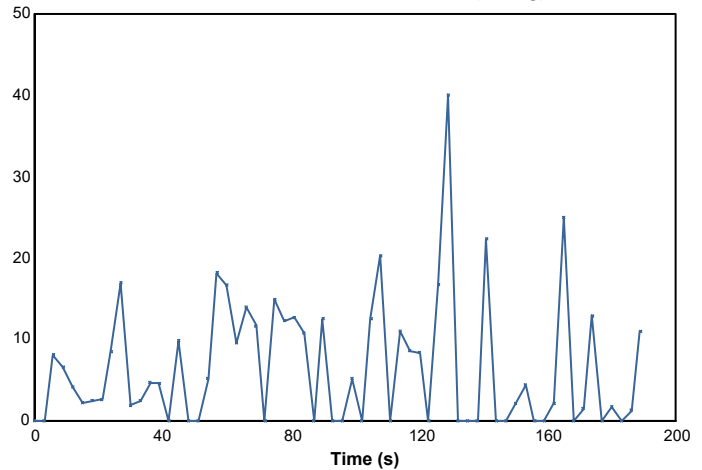
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Specimen : 2

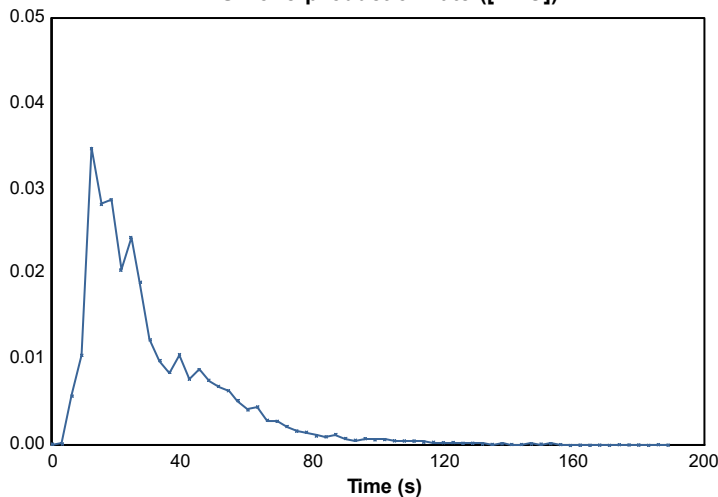
Heat release rate (kW/m²)



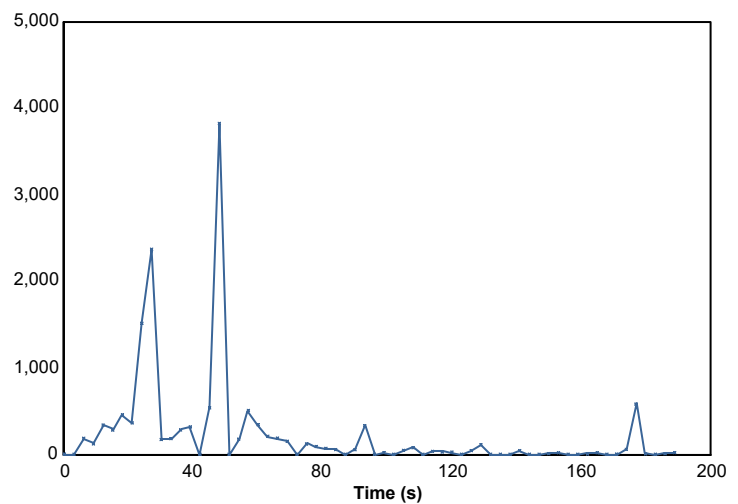
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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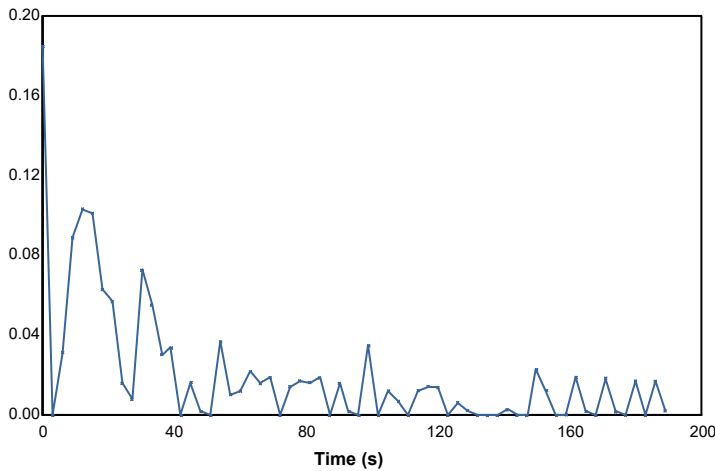
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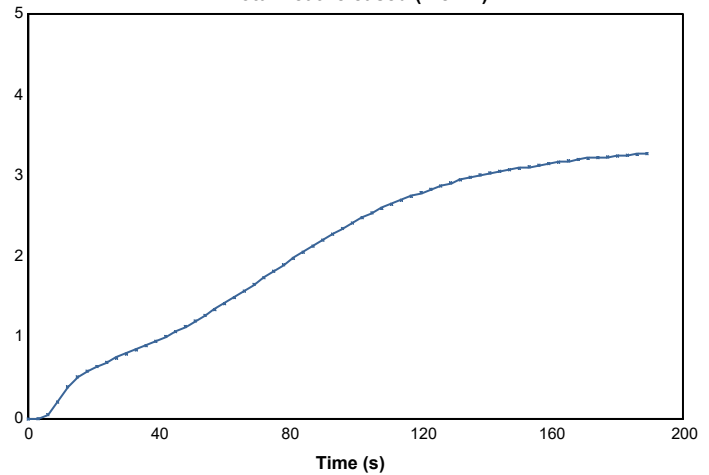
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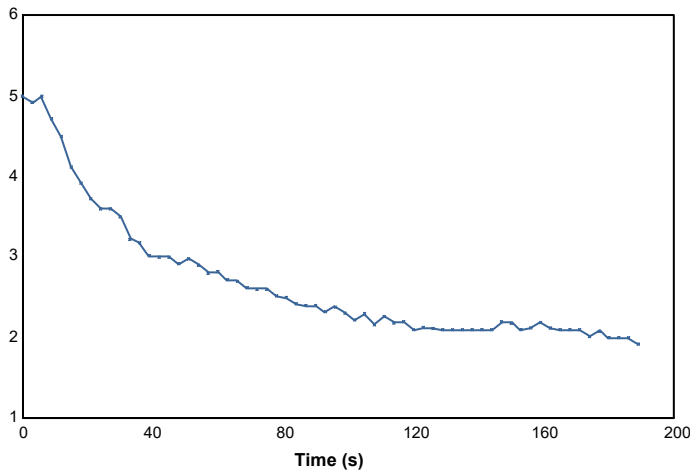
Mass loss rate (g/s)



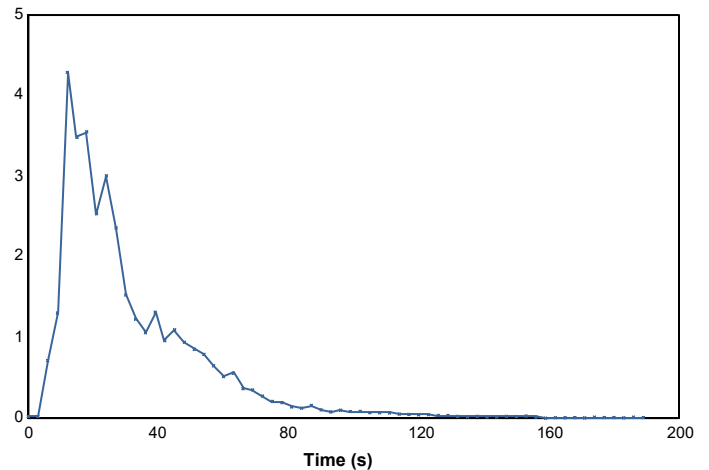
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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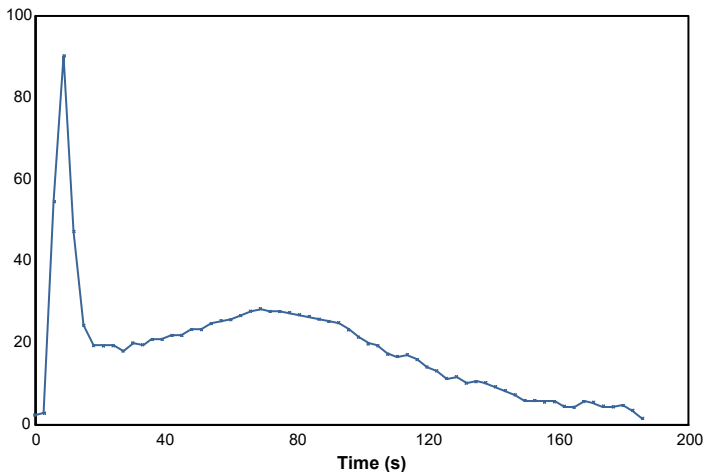
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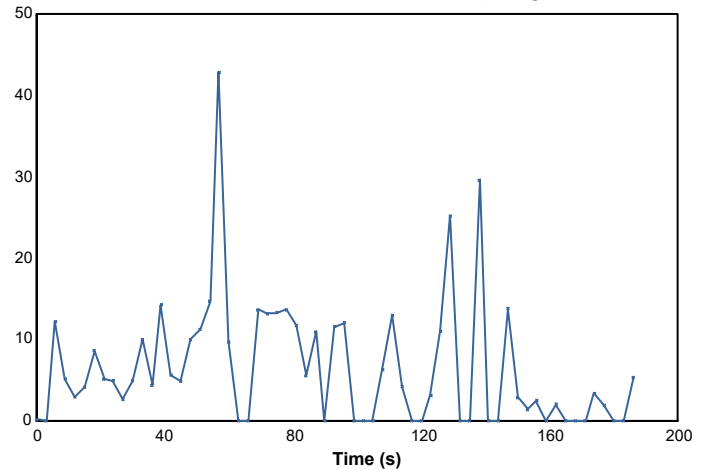
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Specimen : 3

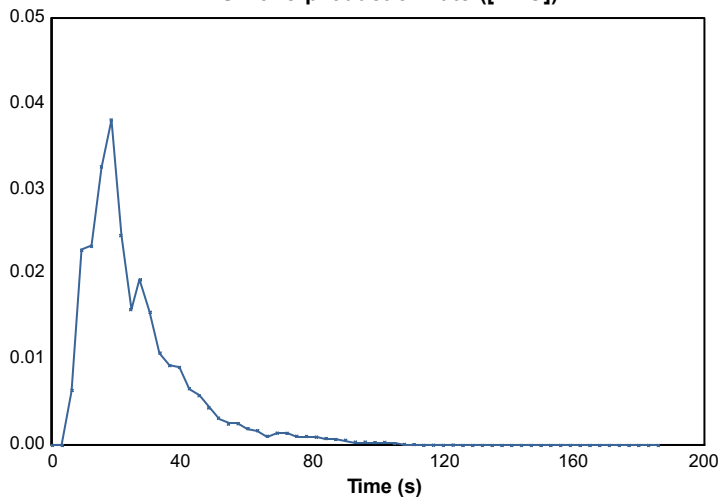
Heat release rate (kW/m²)



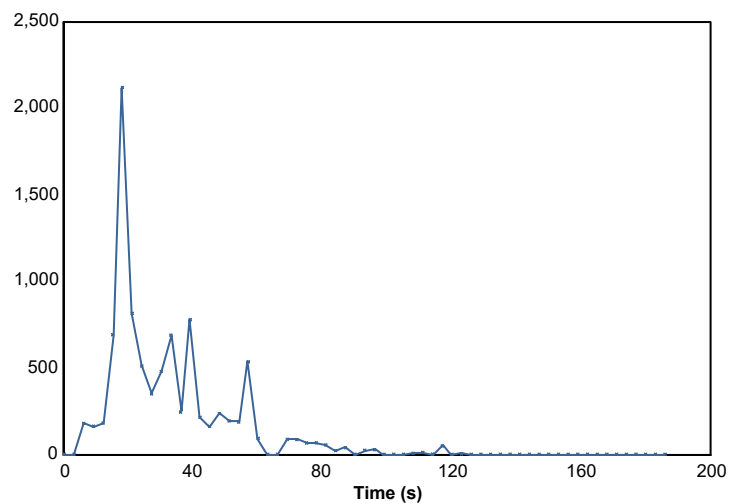
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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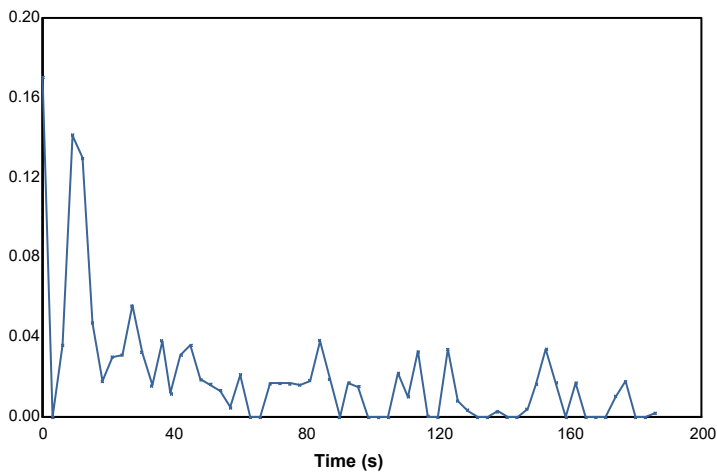
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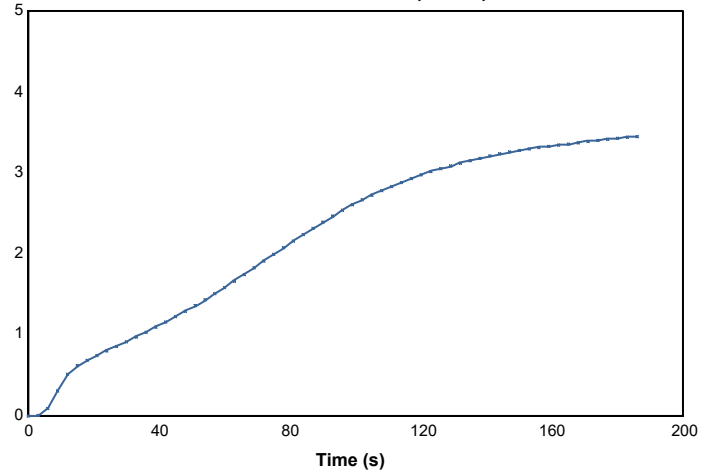
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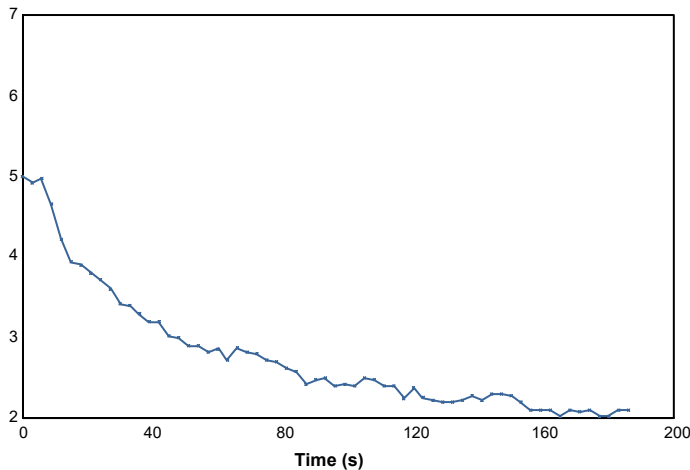
Mass loss rate (g/s)



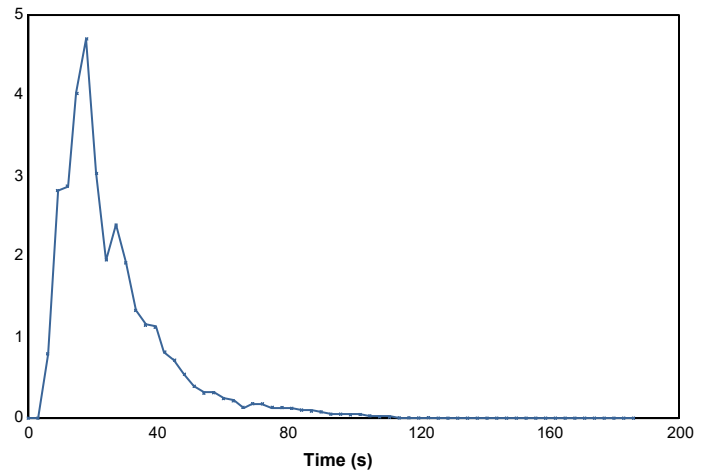
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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