

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 : Verosol
21 Amour Street
Revesby NSW 2212

Test Number : 19-004225
Issue Date : 23/09/2019
Print Date : 23/09/2019
Order Number : 030921-1

Sample Description Clients Ref : "103 Silver Screen Earth"
Woven coated fabric
Colour : White face, Silver back
End Use : Blinds
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : Approx: 250g/m2
Nominal Thickness : Approx: 0.44mm

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

Date Tested 23/09/2019
Operator AWTA Test Operator 7
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	25.5	23.8	24.2	24.5	kW/m ²
Average Specific extinction area	593.7	474.0	471.2	513.0	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	32	32	33	32	sec
Test duration	221	222	220	221	sec
Peak heat release after ignition	184.3	211.6	215.7	203.9	kW/m ²
Average heat at 60 s	66.0	64.7	64.7	65.1	kW/m ²

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Average heat at 180 s	26.6	24.8	25.2	25.5	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	4.8	4.5	4.6	4.6	MJ/m ²
Average effective heat of combustion	17.2	13.3	13.6	14.7	MJ/kg
Initial thickness	0.44	0.44	0.44	0.4	mm
Initial mass	2.7	2.7	2.5	2.6	g
Mass at sustained flaming	2.4	2.6	2.5	2.5	g
Mass remaining	0.4	0.1	0.0	0.2	g
Mass percentage pyrolysed	85.5	95.7	100.0	93.7	%
Mass loss	0.3	0.3	0.3	0.3	kg/m ²
Average rate of mass loss	1.5	1.7	1.7	1.7	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 simulated airgap, consisting of the sample resting on a 12mm spacer.

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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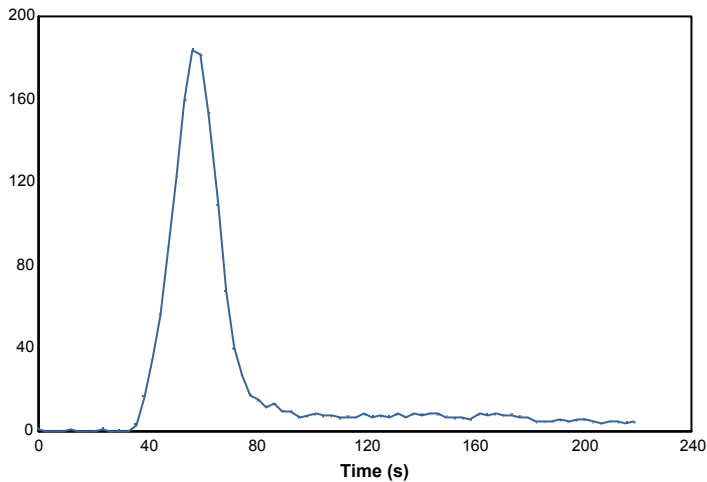
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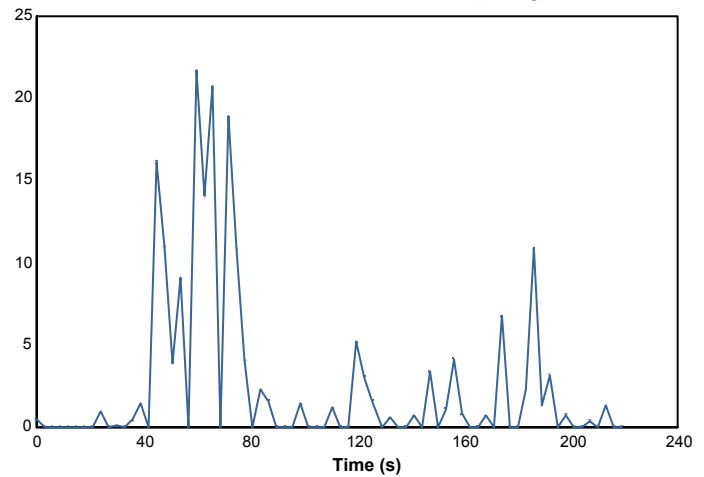
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Specimen : 1

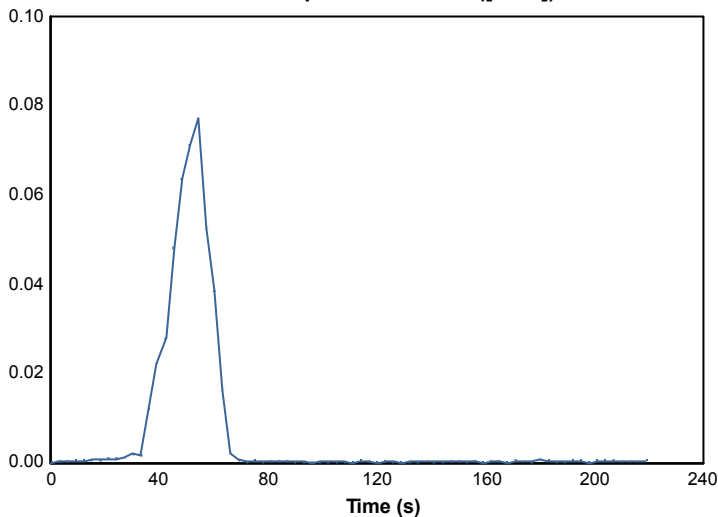
Heat release rate (kW/m²)



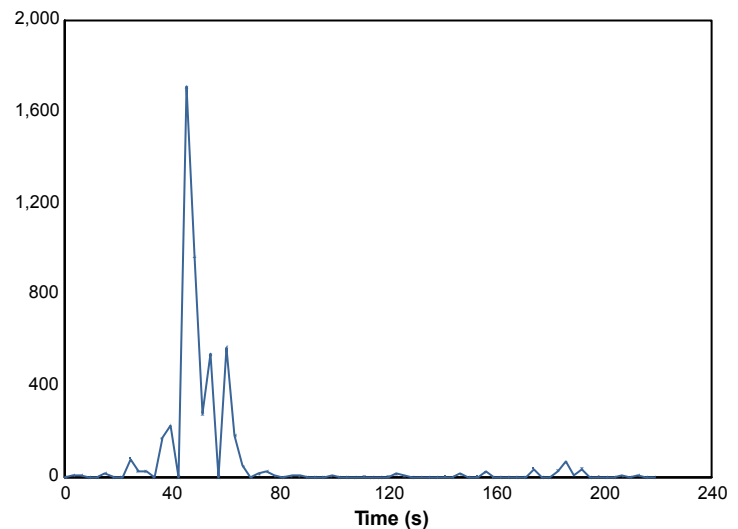
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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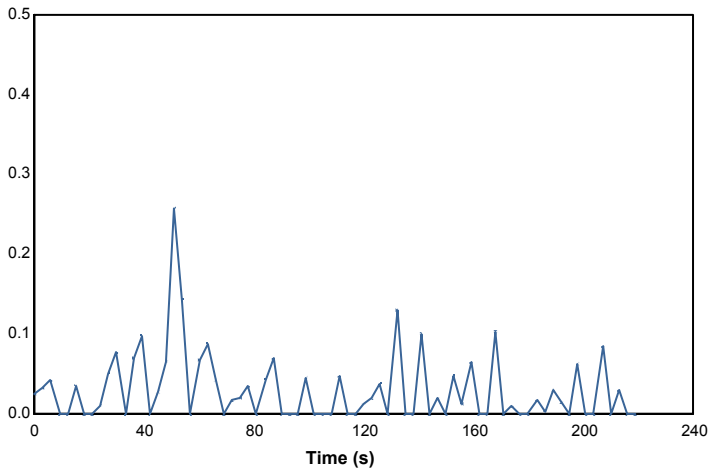
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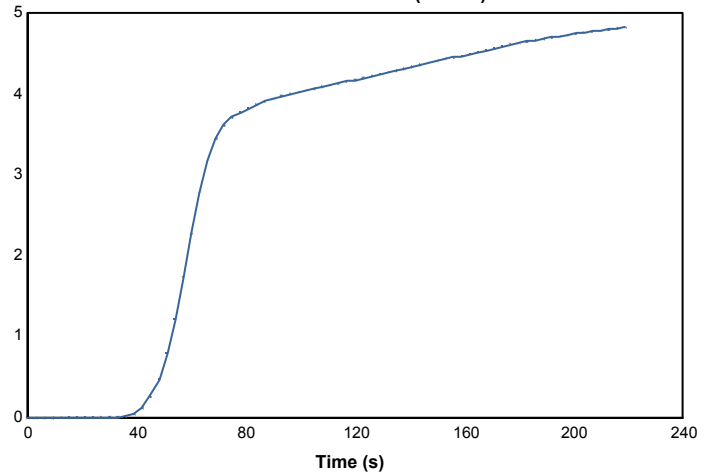
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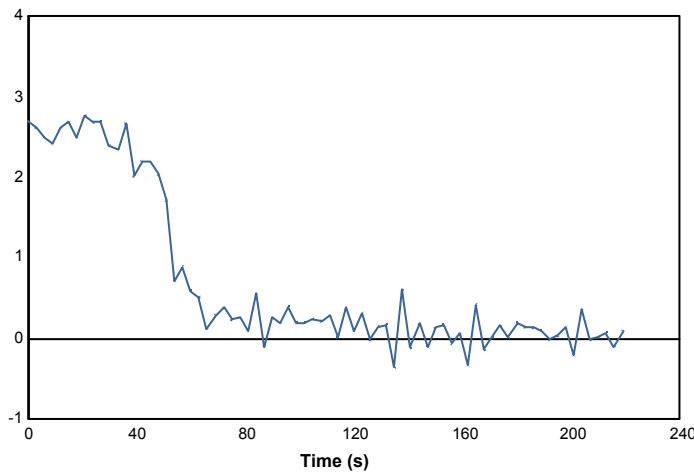
Mass loss rate (g/s)



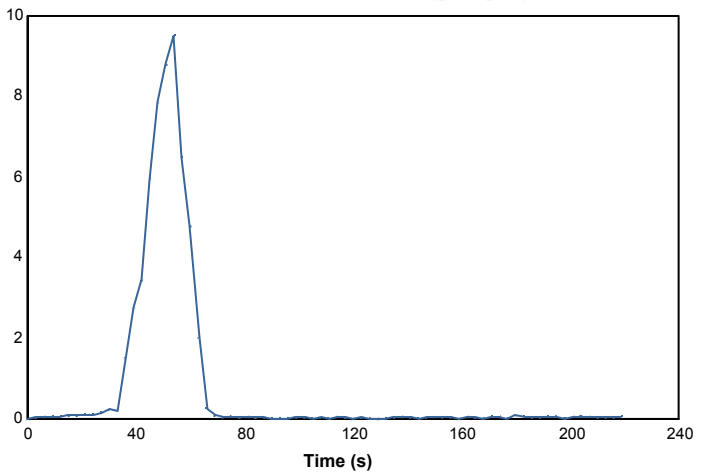
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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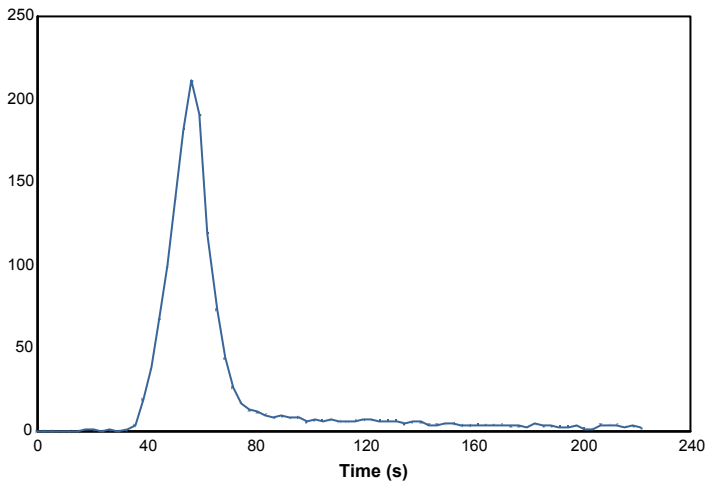
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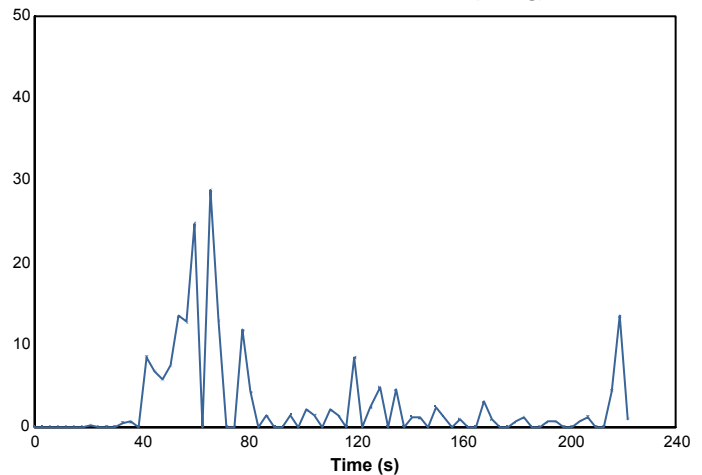
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Specimen : 2

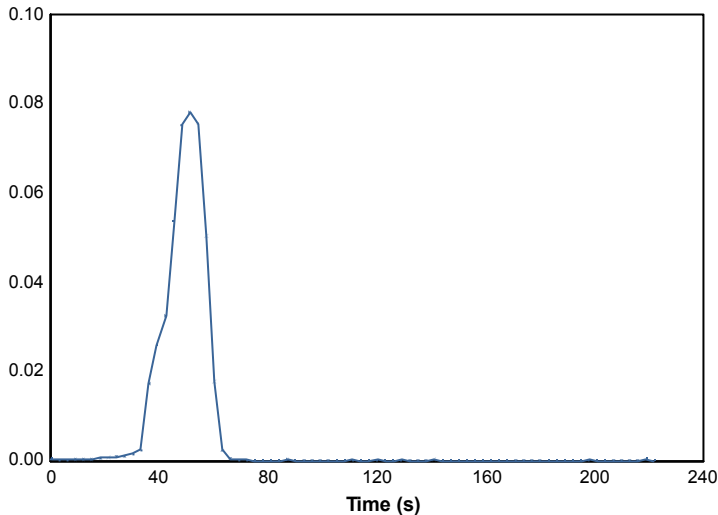
Heat release rate (kW/m²)



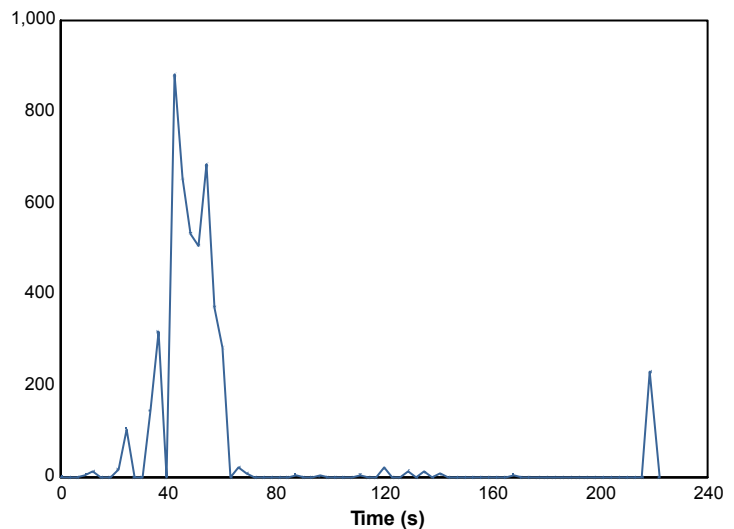
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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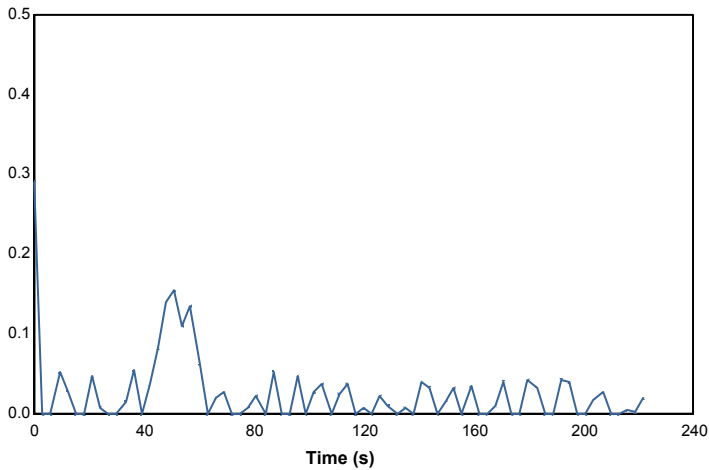
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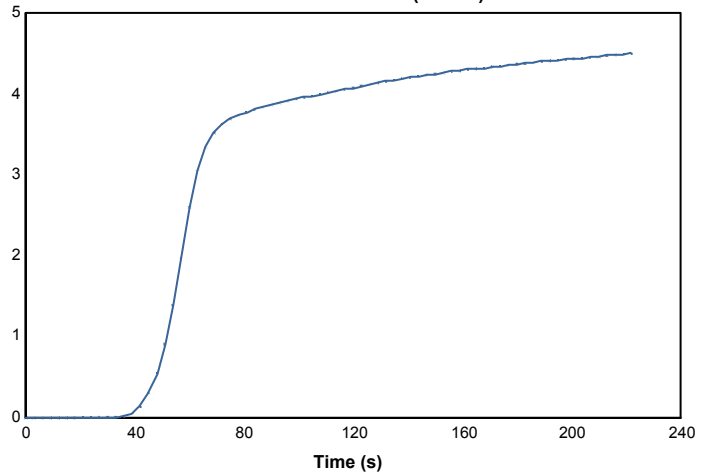
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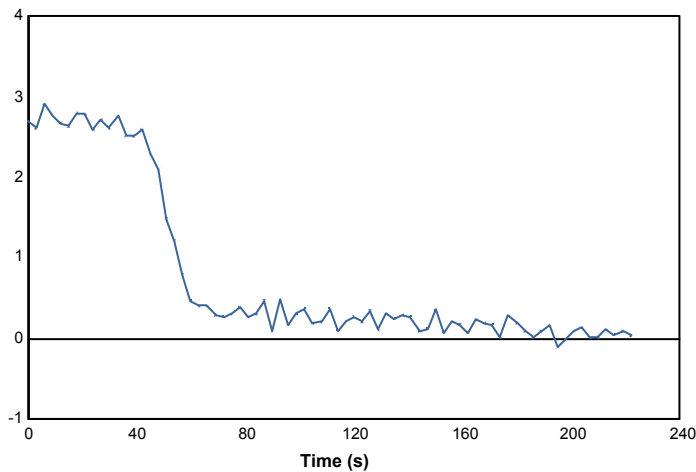
Mass loss rate (g/s)



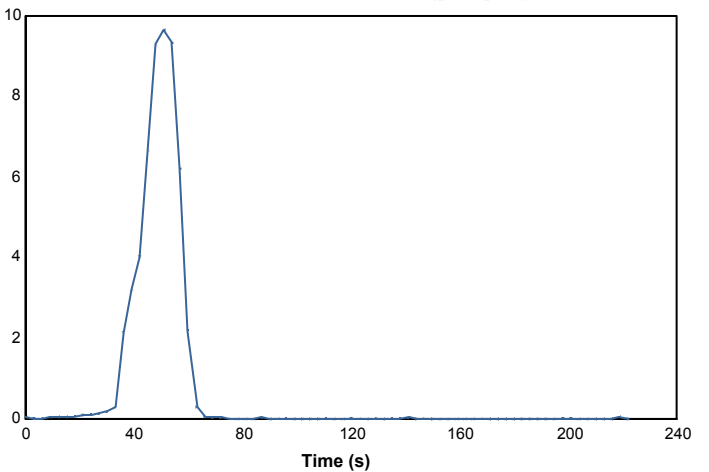
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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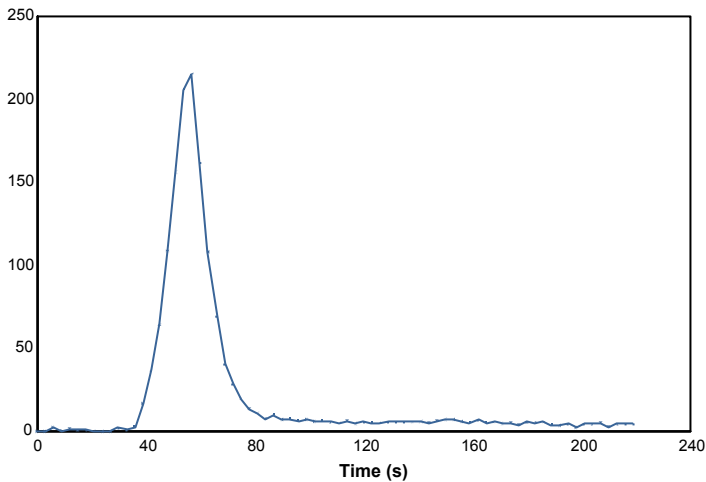
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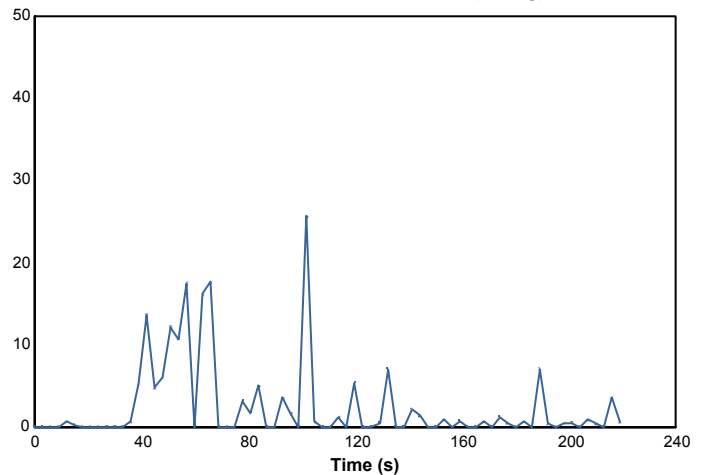
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Specimen : 3

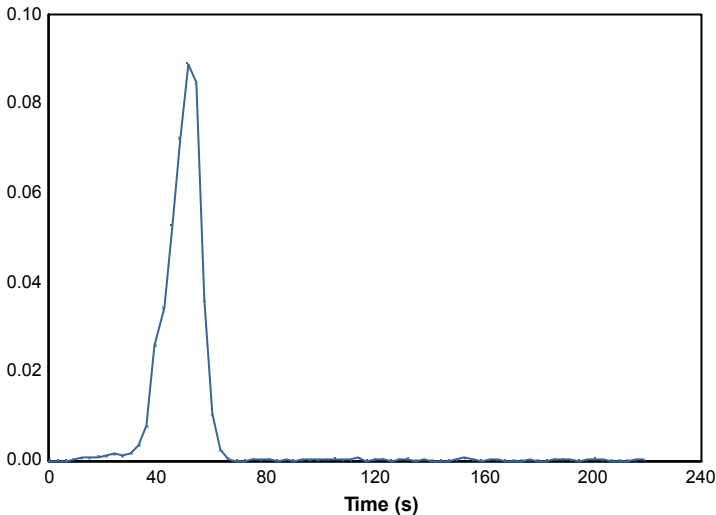
Heat release rate (kW/m²)



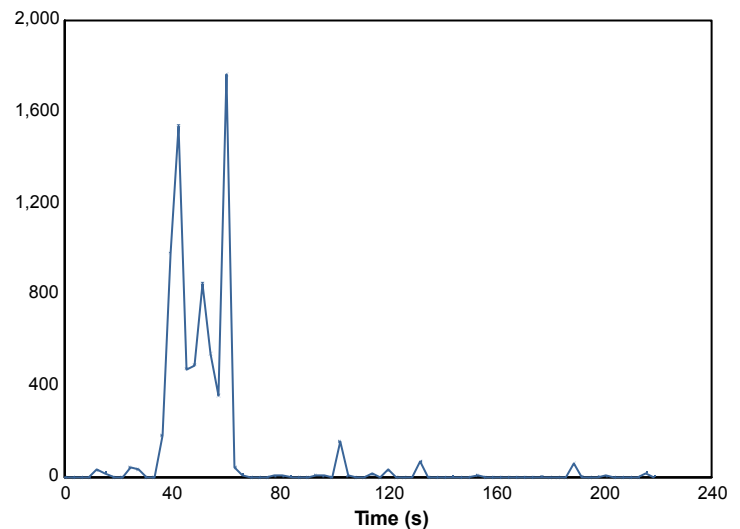
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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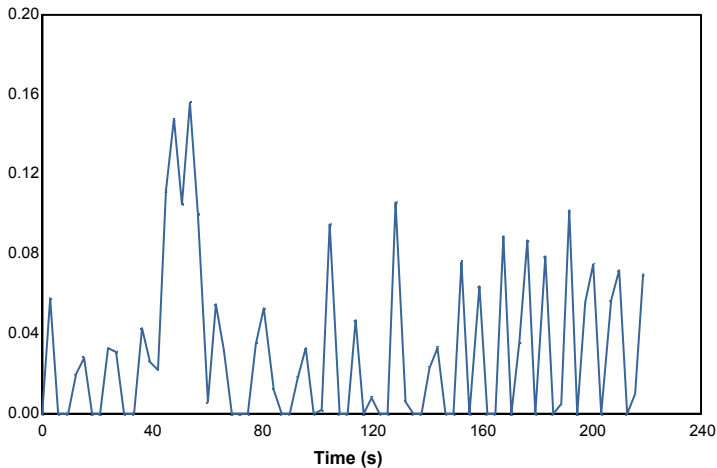
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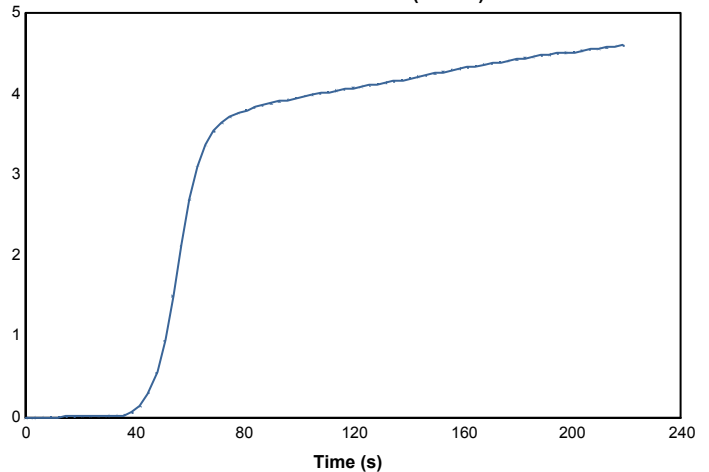
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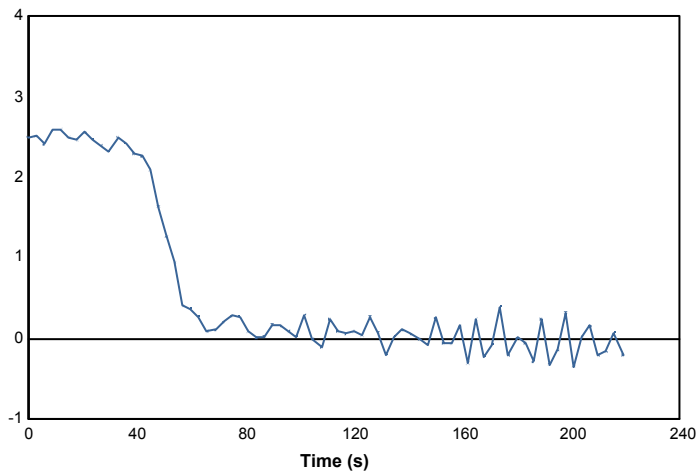
Mass loss rate (g/s)



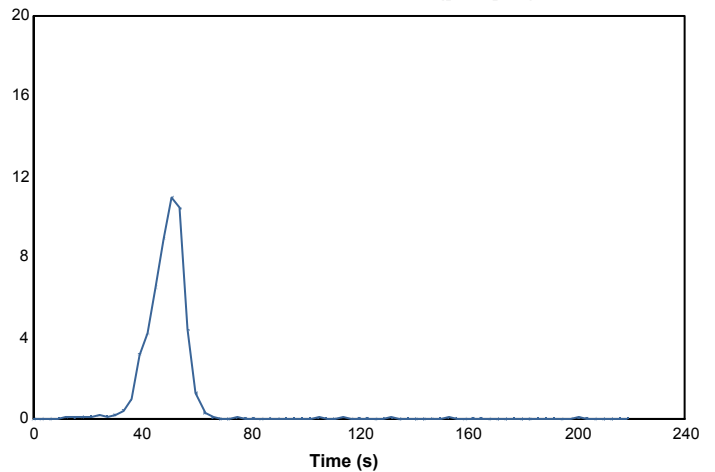
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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