

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
2 Garema Circuit
Kingsgrove NSW 2208

Test Number : 18-007048
Issue Date : 14/12/2018
Print Date : 17/12/2018

Sample Description Clients Ref : "SilverScreen Performance"
Woven coated fabric
Colour : White face/ Silver back
End Use : Rollerblinds
Nominal Composition : 64% PVC / 36% Fibreglass
Nominal Mass per Unit Area/Density : 400 g/m² +/- 5%
Nominal Thickness : 0.55mm +/- 5%

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

Date Tested 14/12/2018
Operator AWTA Test Operator 3
Face Tested White face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	13.4	14.6	15.4	14.5	kW/m ²
Average Specific extinction area	161.0	166.1	178.5	168.5	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	6	5	7	6	sec
Test duration	228	249	228	235	sec
Peak heat release after ignition	77.1	76.2	61.7	71.7	kW/m ²
Average heat at 60 s	30.0	30.0	29.3	29.8	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	16.2	17.9	17.5	17.2	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.0	3.6	3.5	3.3	MJ/m ²
Average effective heat of combustion	10.9	13.7	17.0	13.9	MJ/kg
Initial thickness	1	1	1	1.0	mm
Initial mass	4.3	3.9	3.6	3.9	g
Mass at sustained flaming	3.9	3.9	3.6	3.8	g
Mass remaining	2.1	1.8	2.0	2.0	g
Mass percentage pyrolysed	51.2	53.5	45.2	50.0	%
Mass loss	0.3	0.3	0.2	0.2	kg/m ²
Average rate of mass loss	3.2	2.5	2.2	2.6	g/m ² .s
Additional Observations	n/a				
Difficulties Encountered during Testing	n/a				

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.

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

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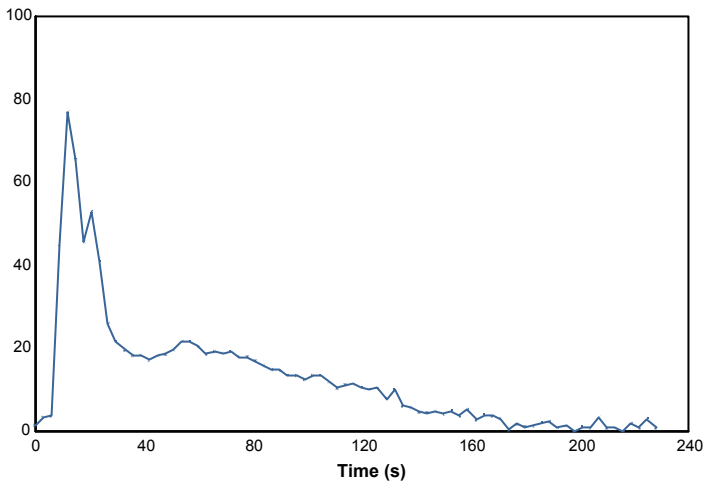
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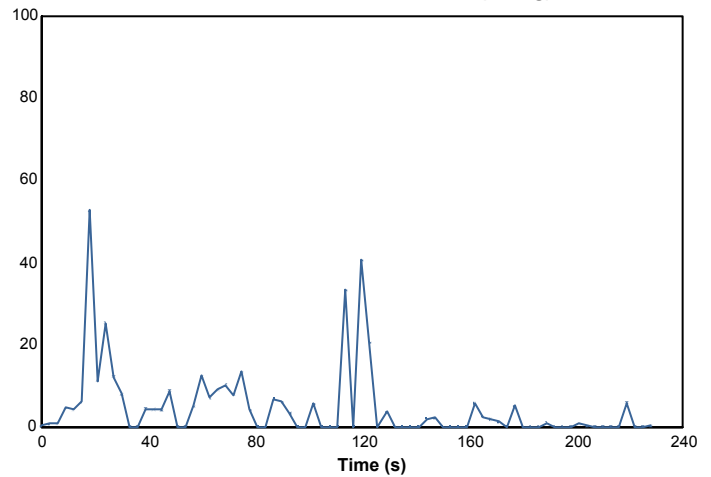
Test Number : 18-007048
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Specimen : 1

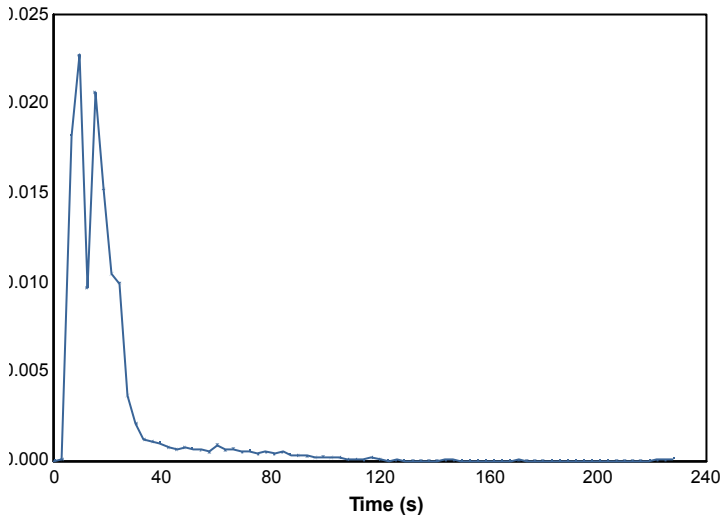
Heat release rate (kW/m²)



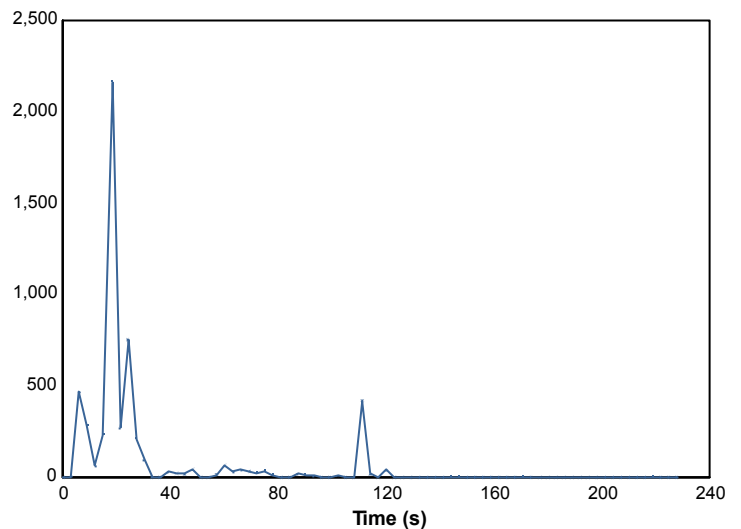
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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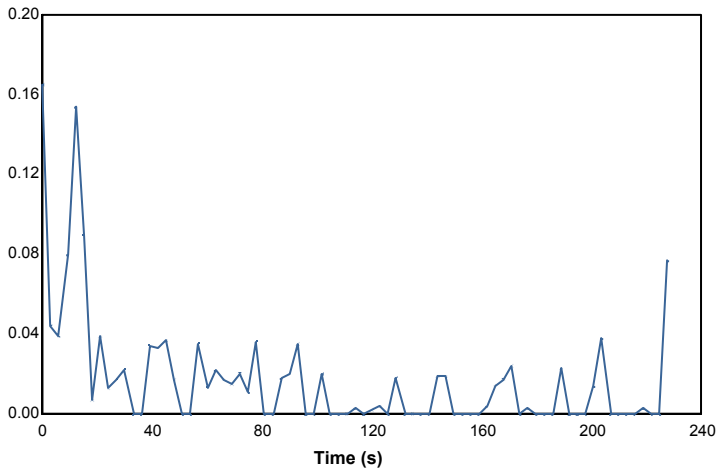
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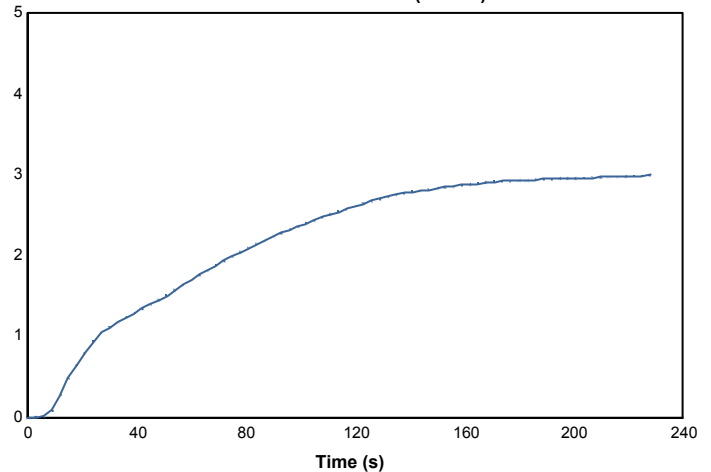
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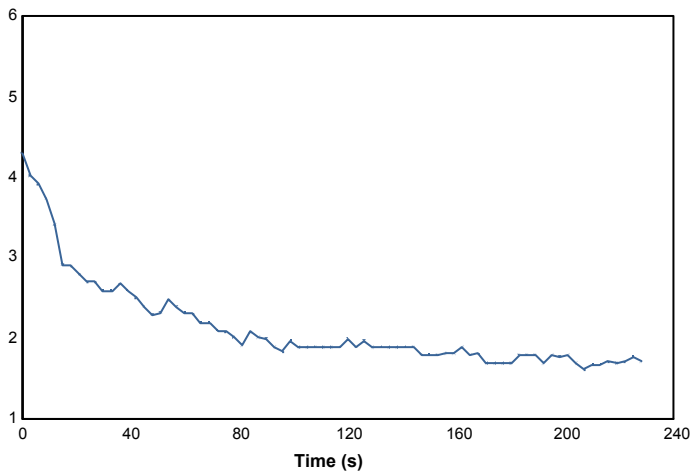
Mass loss rate (g/s)



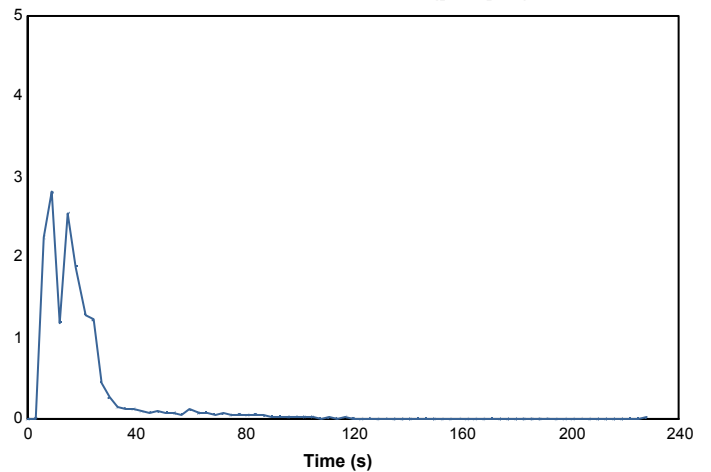
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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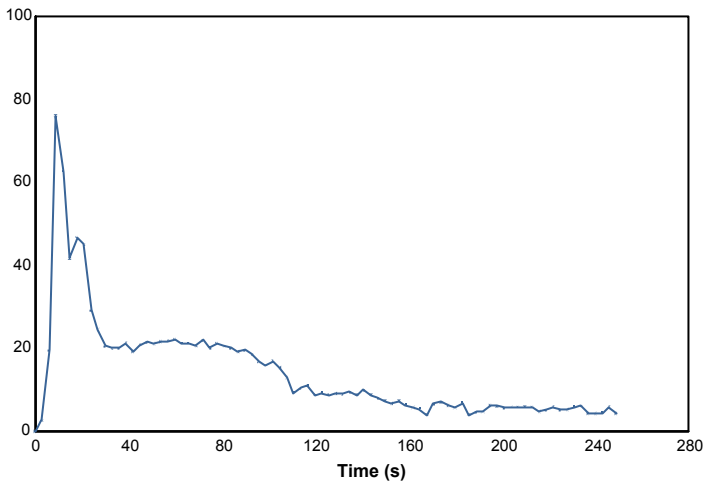
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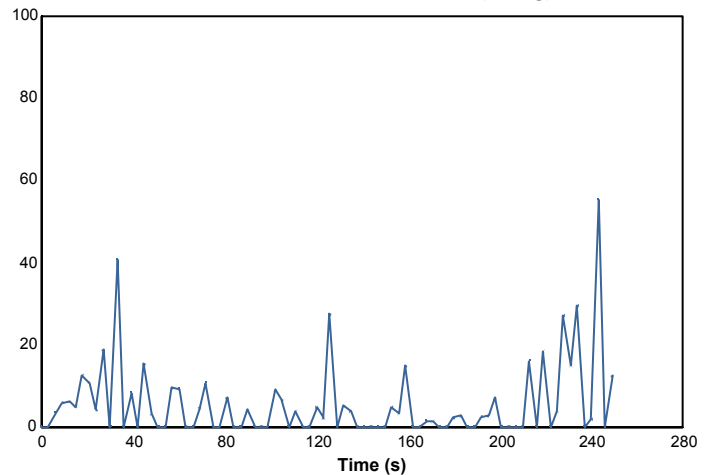
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Specimen : 2

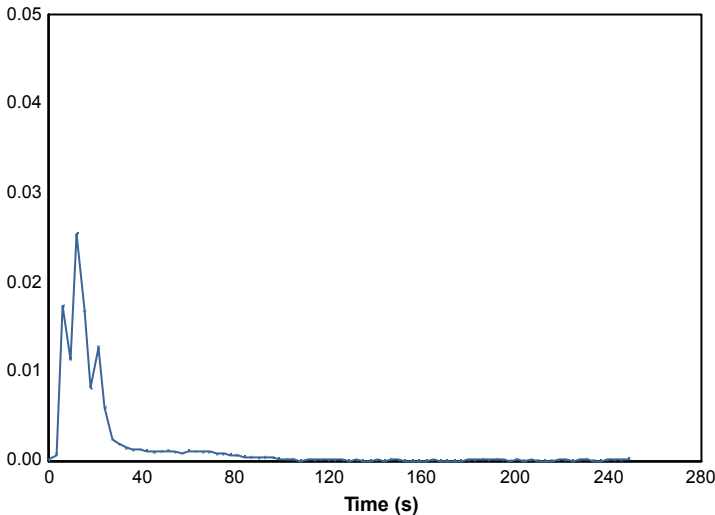
Heat release rate (kW/m²)



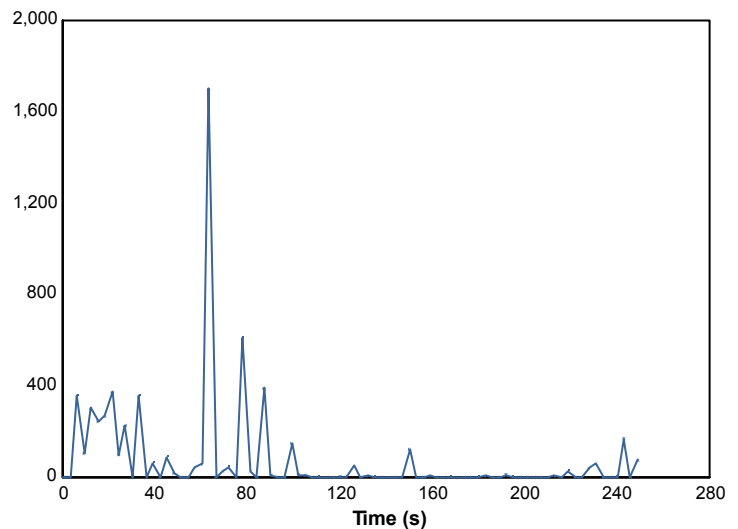
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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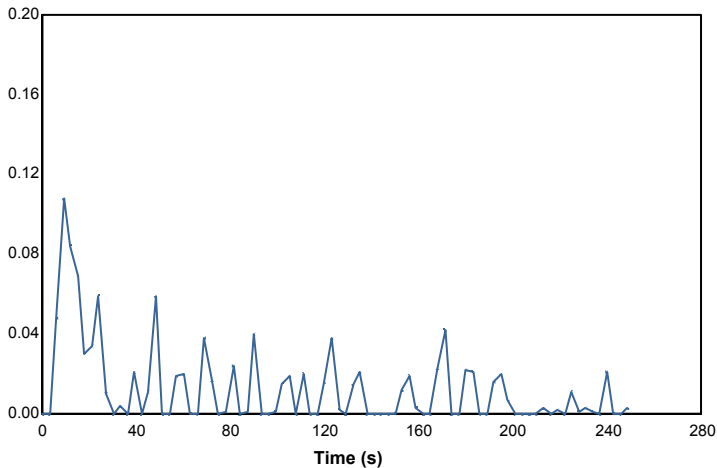
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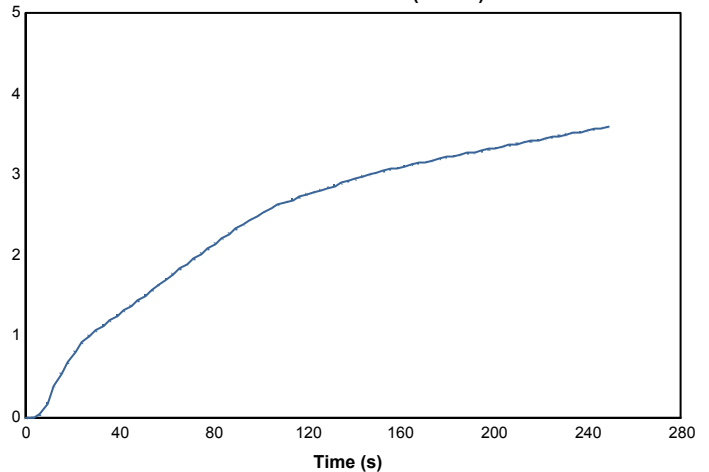
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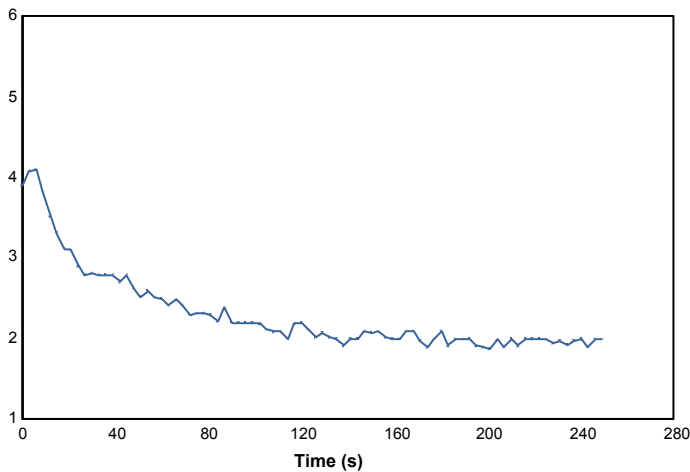
Mass loss rate (g/s)



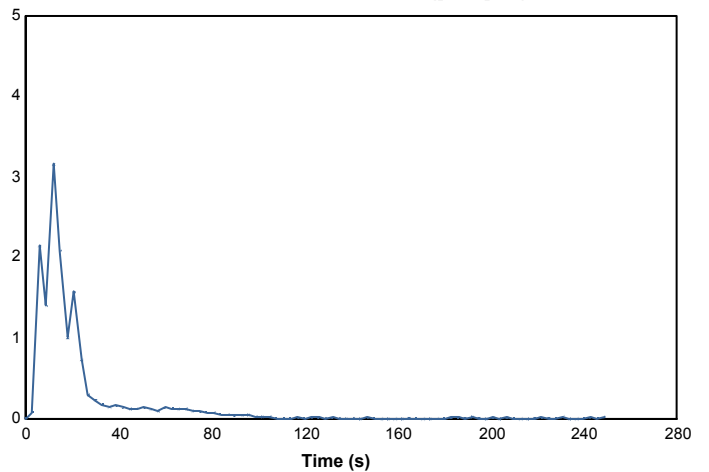
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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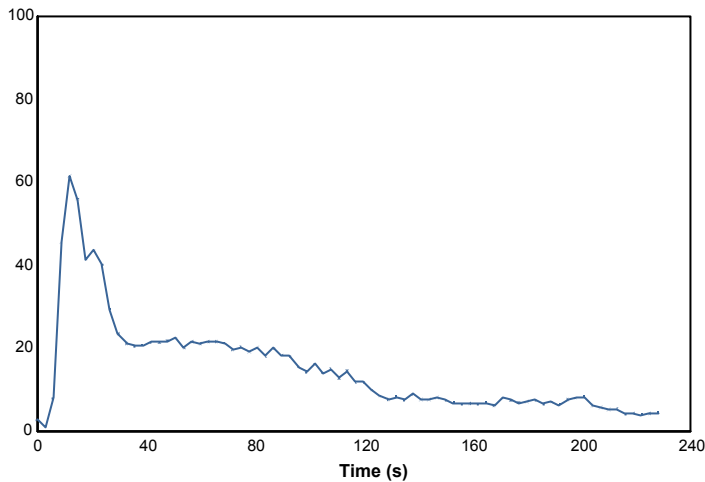
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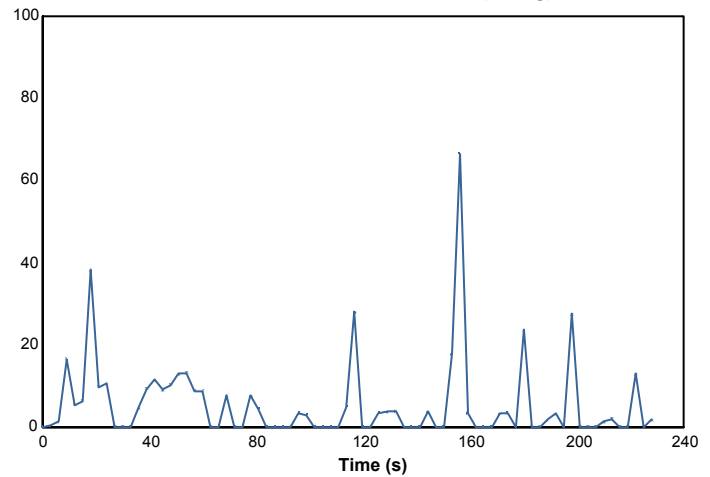
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Specimen : 3

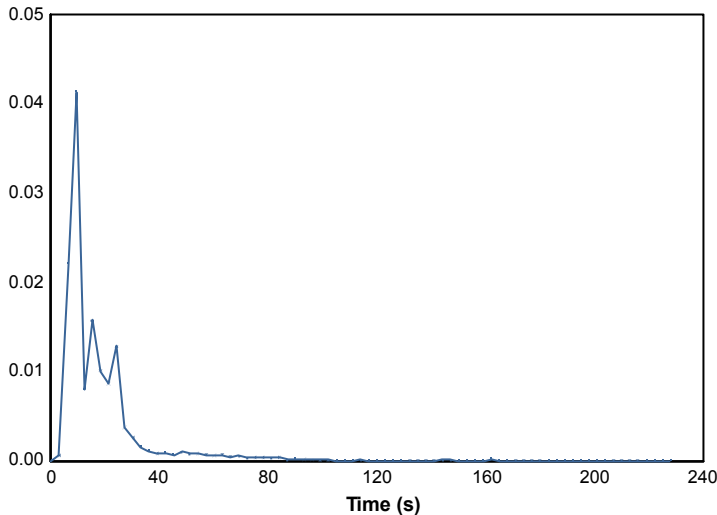
Heat release rate (kW/m²)



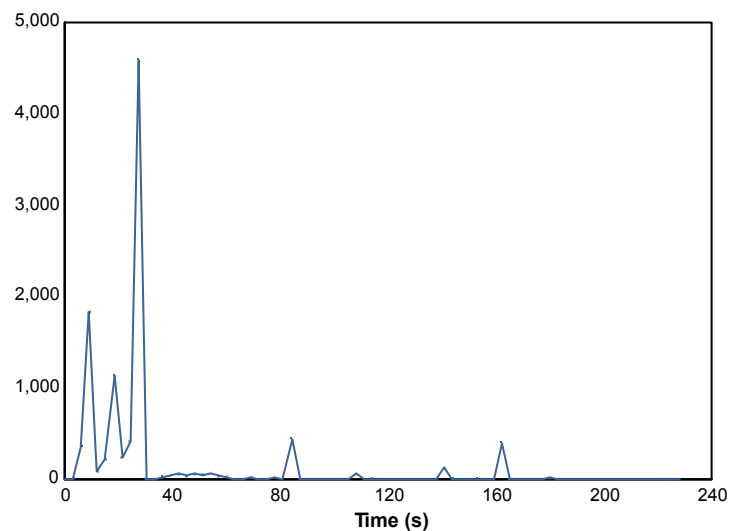
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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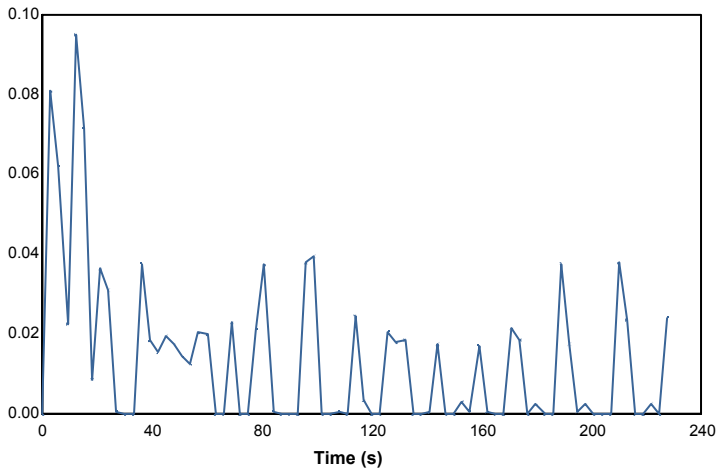
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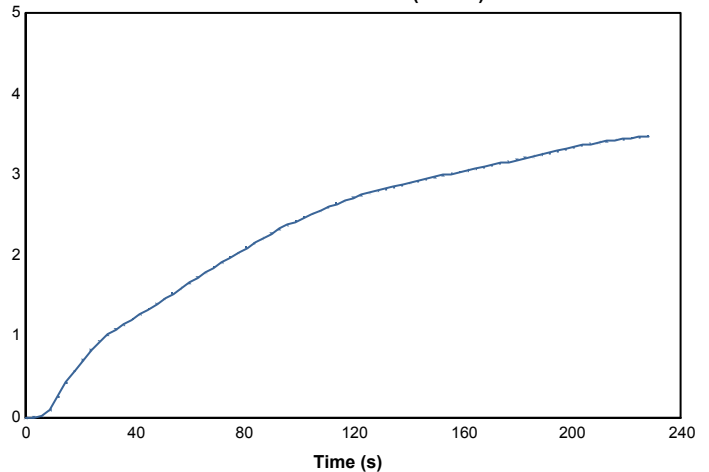
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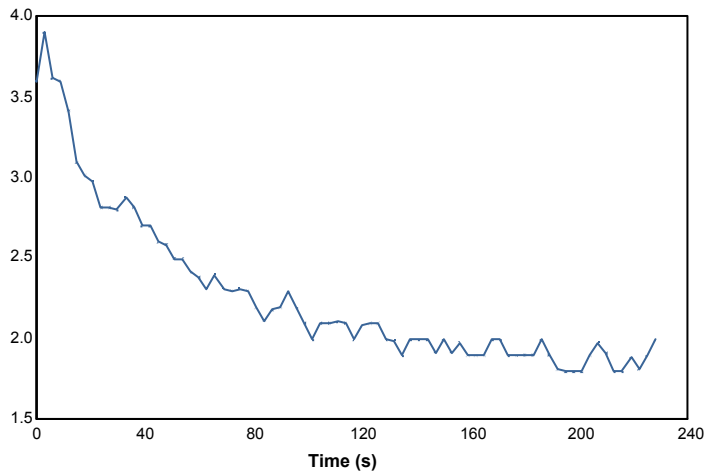
Mass loss rate (g/s)



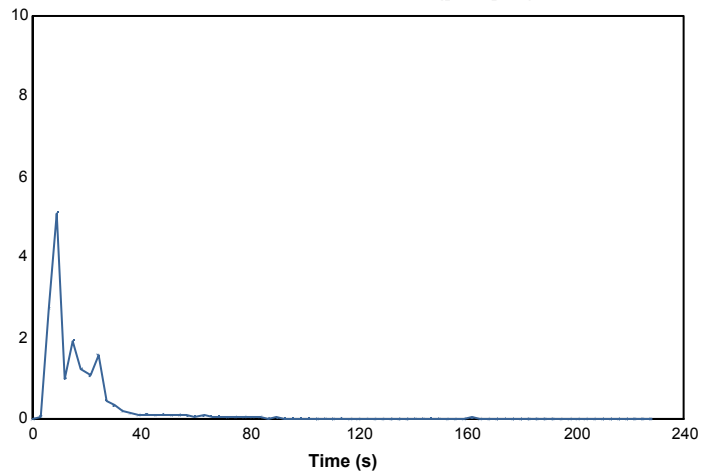
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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