

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 : Warwick Fabrics Aust Pty Ltd
6-10 Sackville Street
Collingwood VIC 3066

Test Number : 25-004825
Issue Date : 17/11/2025
Print Date : 17/11/2025

Sample Description Clients Ref : "Brooklyn" Luciana Wallis
Woven fabric
Colour : Biscuit
End Use : Upholstery
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : 355g/m2
Nominal Thickness : 1mm



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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 17-11-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	41.3	30.5	39.3	37.0	kW/m ²
Average Specific extinction area	92.5	91.1	101.2	94.9	m ² /kg

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	75	100	86	87	sec
Test duration	329	477	335	380	sec
Peak heat release after ignition	146.3	139.4	133.2	139.7	kW/m ²
Average heat at 60 s	104.7	101.5	98.1	101.5	kW/m ²
Average heat at 180 s	51.4	53.3	47.2	50.6	kW/m ²
Average heat at 300 s	n/a	37.8	n/a	n/a	kW/m ²
Total heat released	10.5	11.6	9.8	10.6	MJ/m ²
Average effective heat of combustion	6.5	7.2	6.3	6.7	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	87.1	87.7	88.1	87.6	g
Mass remaining	74.1	74.7	75.6	74.8	g
Mass percentage pyrolysed	14.9	14.8	14.1	14.6	%

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Mass loss	1.6	1.6	1.5	1.6	kg/m ²
Average rate of mass loss	6.3	4.3	6.2	5.6	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Samples were loose laid onto a substrate of 6mm thick cement sheeting 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 the fire hazard under all fire conditions.

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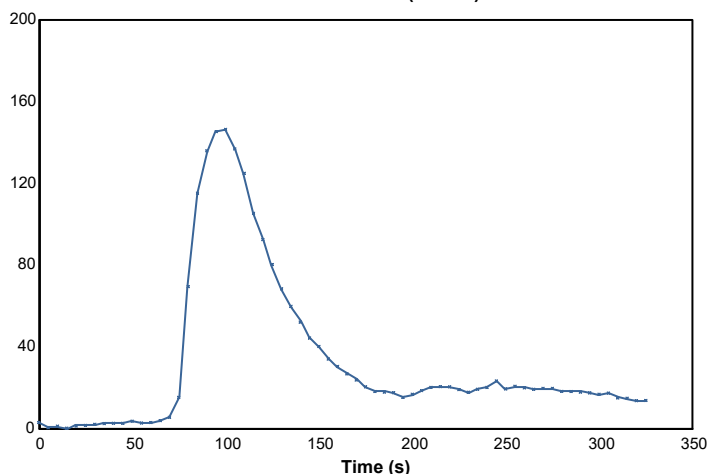
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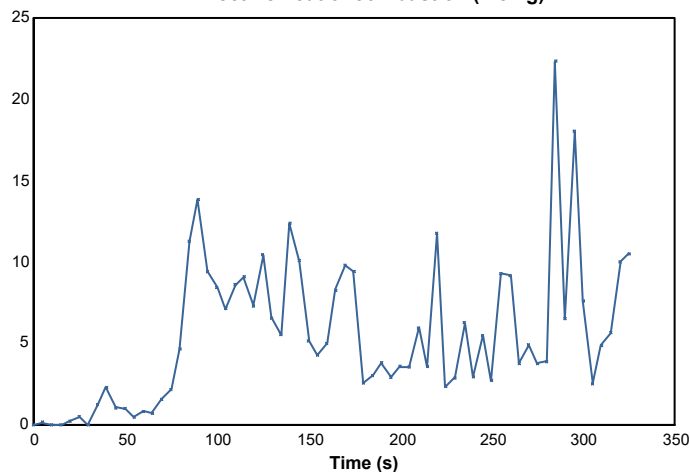
Print Date : 17/11/2025

Specimen : 1

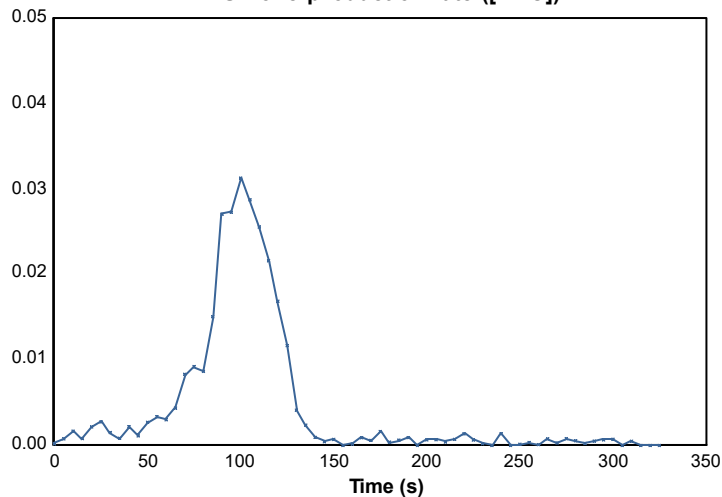
Heat release rate (kW/m²)



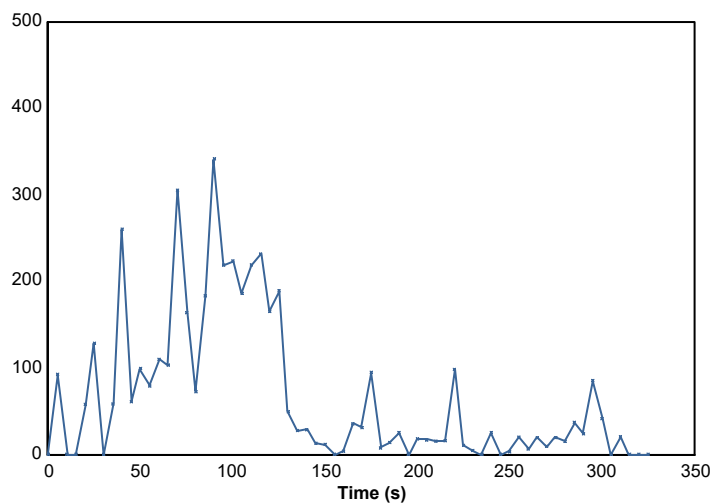
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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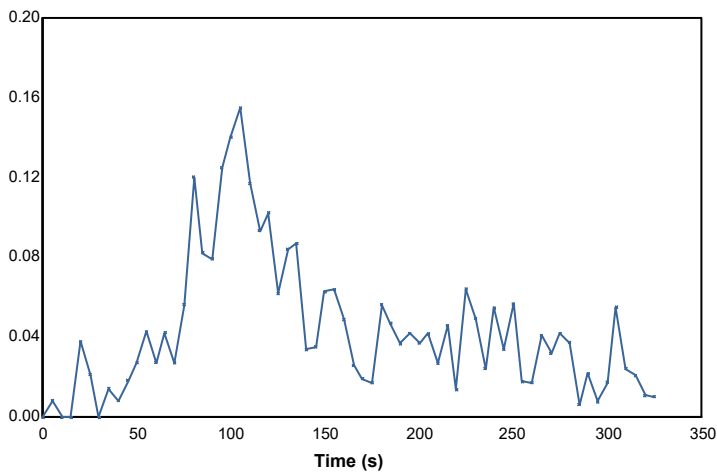
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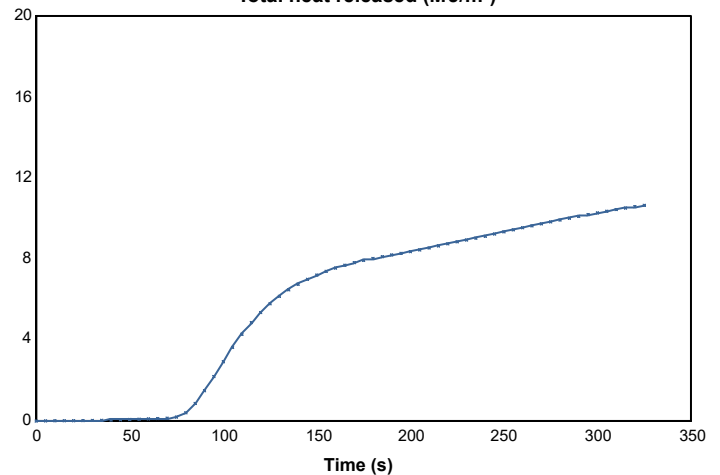
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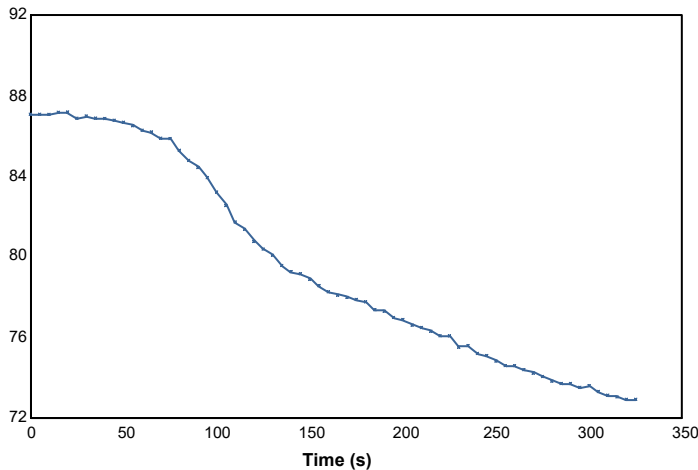
Mass loss rate (g/s)



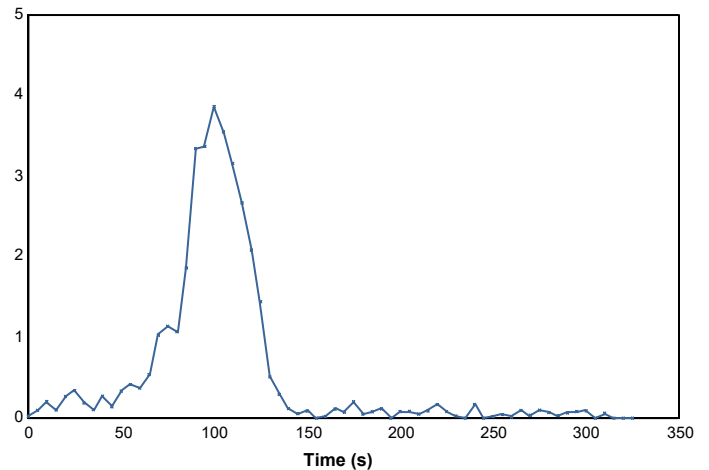
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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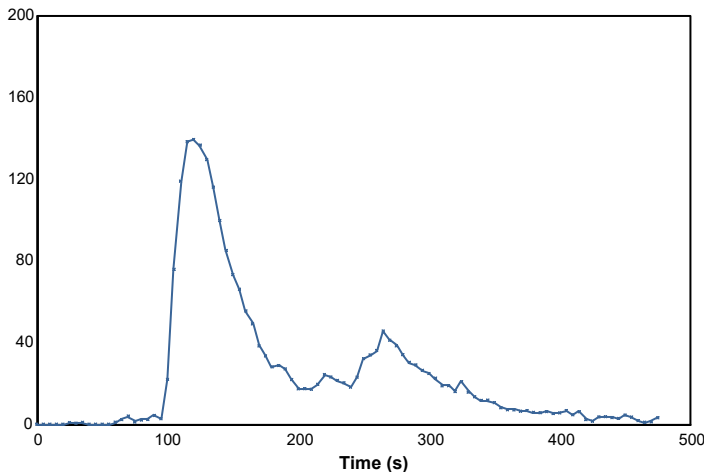
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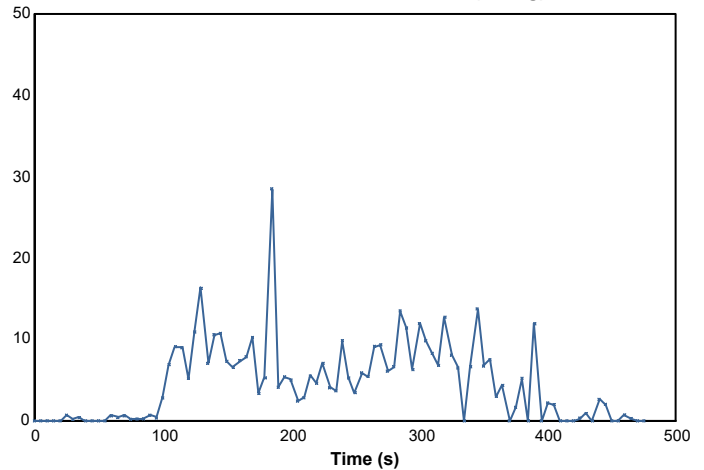
Test Number : 25-004825
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Specimen : 2

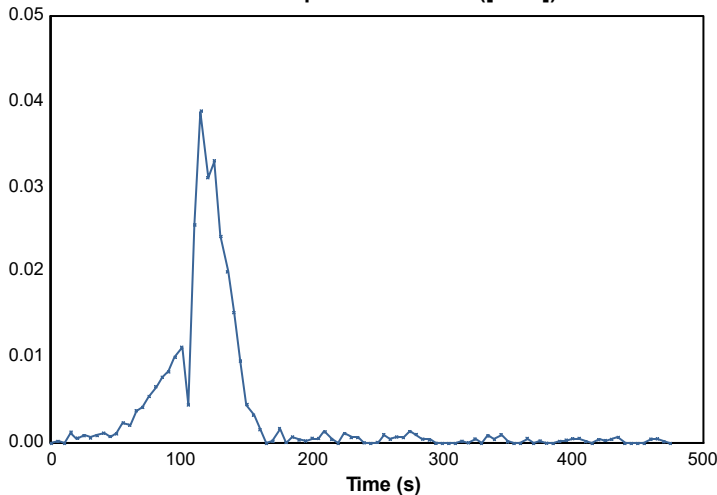
Heat release rate (kW/m²)



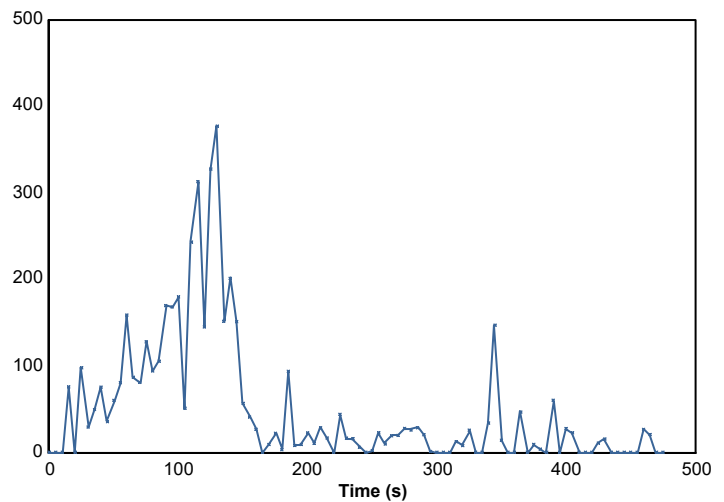
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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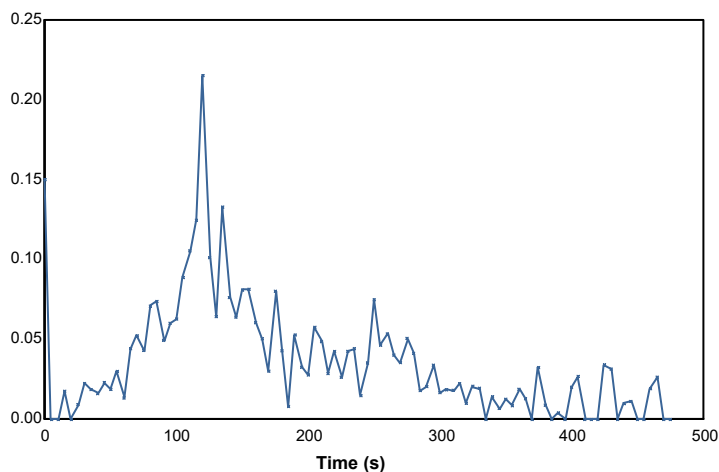
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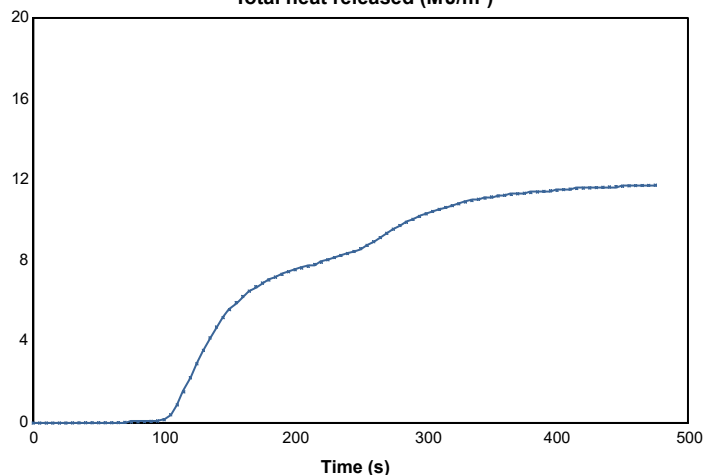
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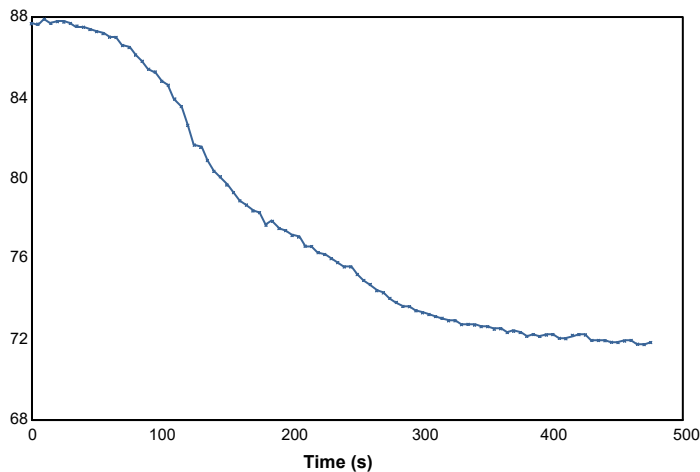
Mass loss rate (g/s)



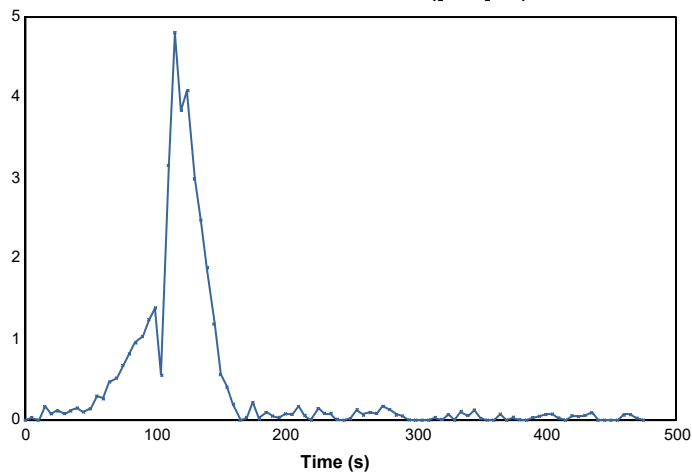
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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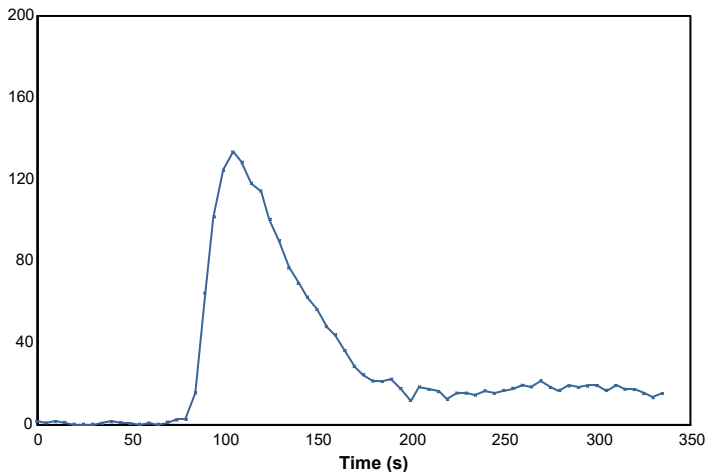
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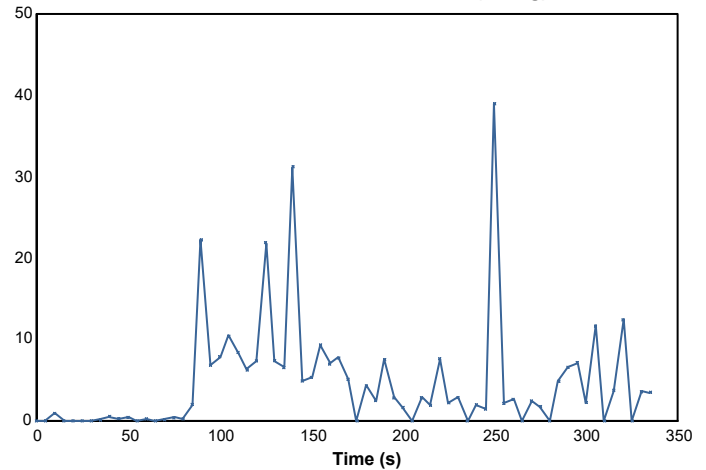
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Specimen : 3

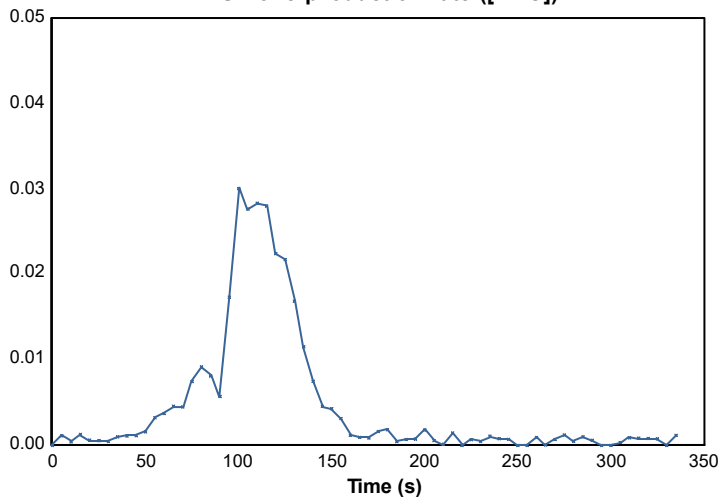
Heat release rate (kW/m²)



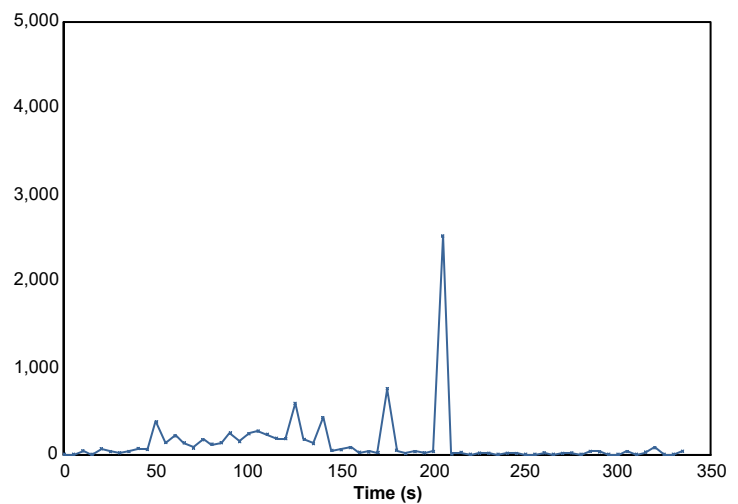
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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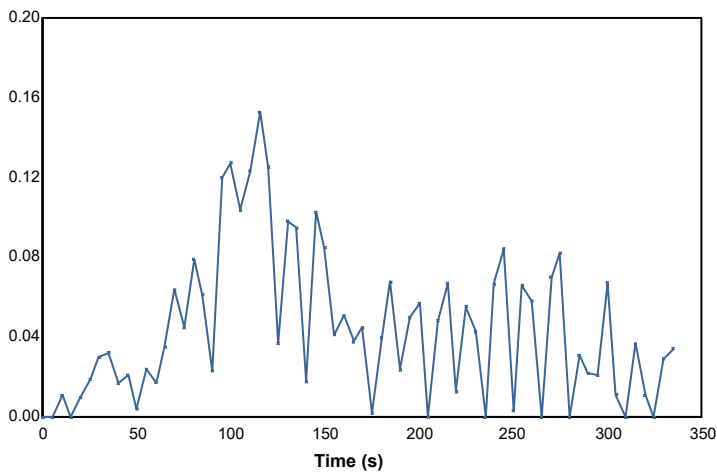
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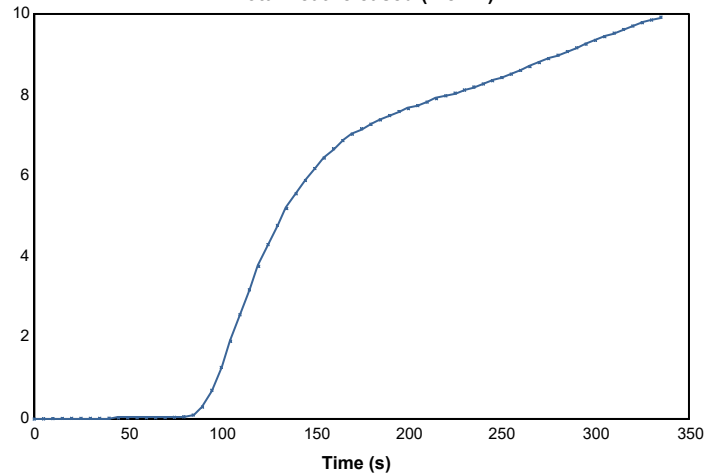
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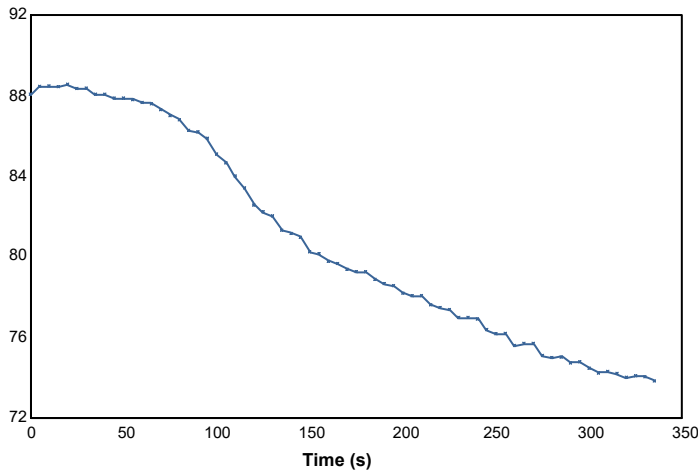
Mass loss rate (g/s)



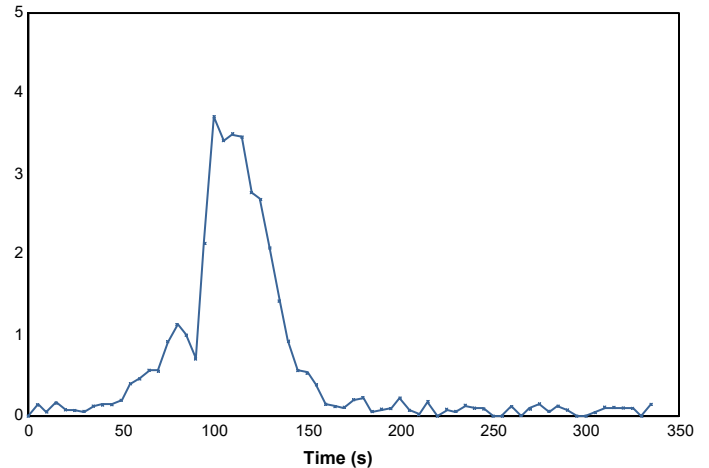
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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