

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 : At Work With Camira
PO Box 37 378
Parnell Auckland 1052
New Zealand

Test Number : 14-000791
Issue Date : 13/11/2014
Print Date : 13/11/2014

Sample Description Clients Ref : "Blazer Lite"
Woven fabric
Colour : Purple
End Use : Wall Panels
Nominal Composition : 100% Wool
Nominal Mass per Unit Area/Density : 329g/m2

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	19.0	21.9	21.2	20.7	kW/m ²
Average Specific extinction area	87.6	84.0	90.6	87.4	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	24	24	24	24	L/sec
Time to sustained flaming	8	10	10	9	sec
Test duration	191	198	196	195	sec
Peak heat release after ignition	102.4	105.3	105.2	104.3	kW/m ²
Average heat at 60 s	52.6	54.4	54.1	53.7	kW/m ²
Average heat at 180 s	19.3	22.5	21.5	21.1	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.5	4.1	3.9	3.8	MJ/m ²
Average effective heat of combustion	4.4	5.0	4.9	4.7	MJ/kg

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- Chemical Testing of Textiles & Related Products	: Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	: Accreditation No.	985
- Heat & Temperature Measurement	: Accreditation No.	1356

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Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	93.6	93.8	93.9	93.8	g
Mass remaining	87.3	87.2	87.0	87.2	g
Mass percentage pyrolysed	6.7	7.0	7.3	7.0	g
Mass loss	6.3	6.6	6.9	6.6	g
Average rate of mass loss	4.3	4.4	4.3	4.3	g/m ² .s

The formulae given in the Building Code of Australia have been shown to give inaccuracies in determination of Group Number for certain materials. Due to this AWTA Product Testing no longer reports Group Numbers. The formulae for calculation of Group number is available from the website of the Australian Building Codes Board. The results reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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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APPROVED SIGNATORY

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

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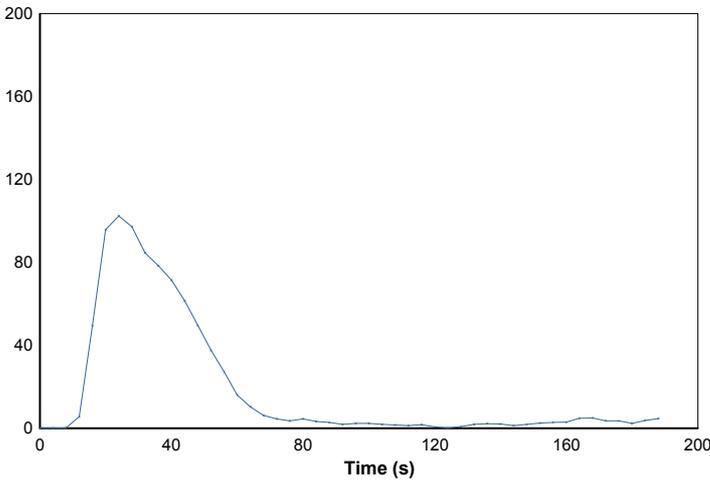
TEST REPORT

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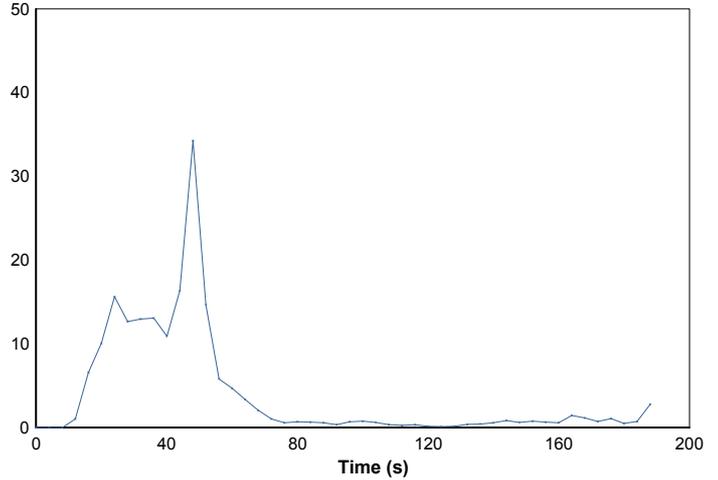
Test Number : 14-000791
Issue Date : 13/11/2014
Print Date : 13/11/2014

Specimen : 1

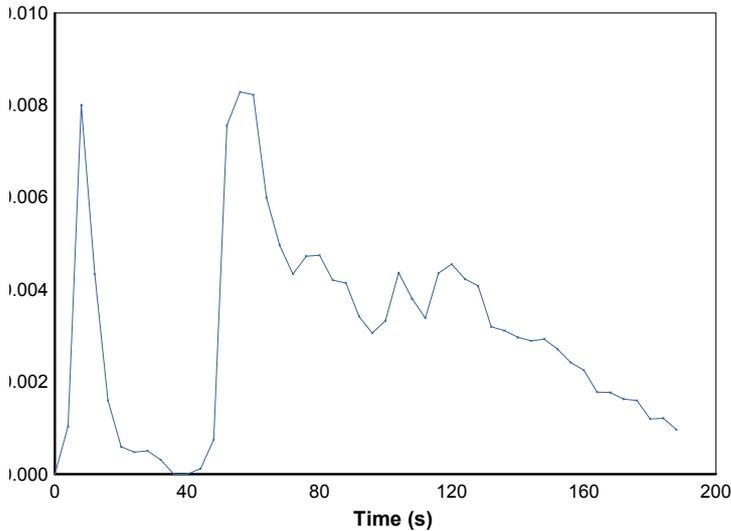
Heat release rate (kW/m²)



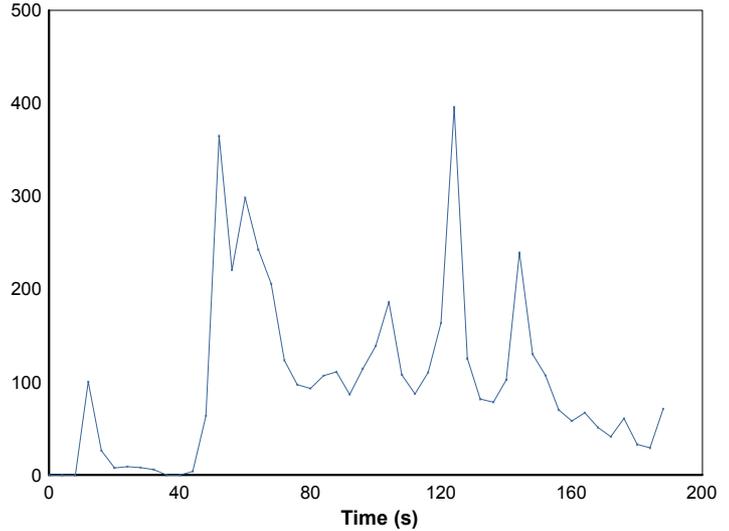
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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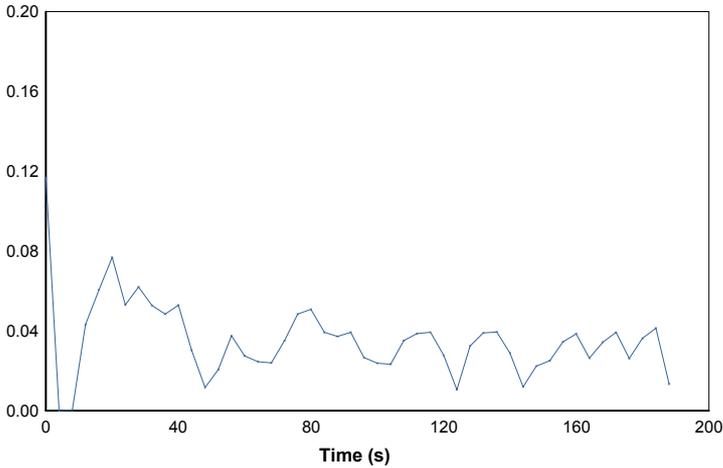
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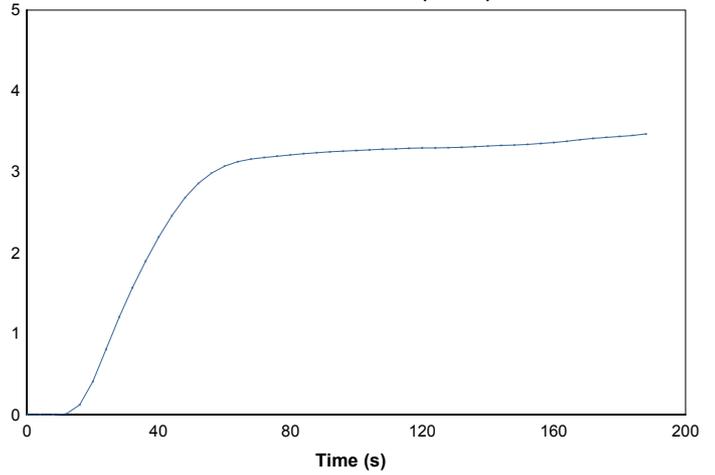
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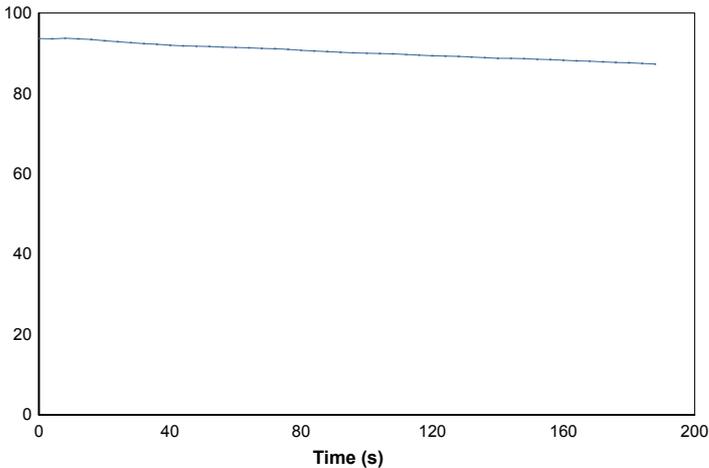
Mass loss rate (g/s)



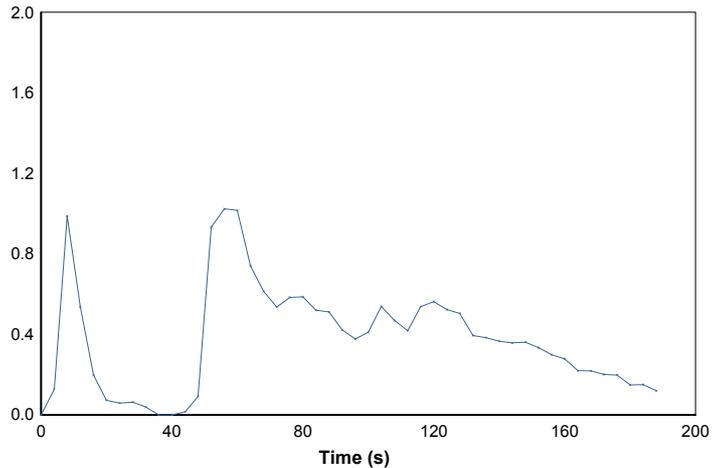
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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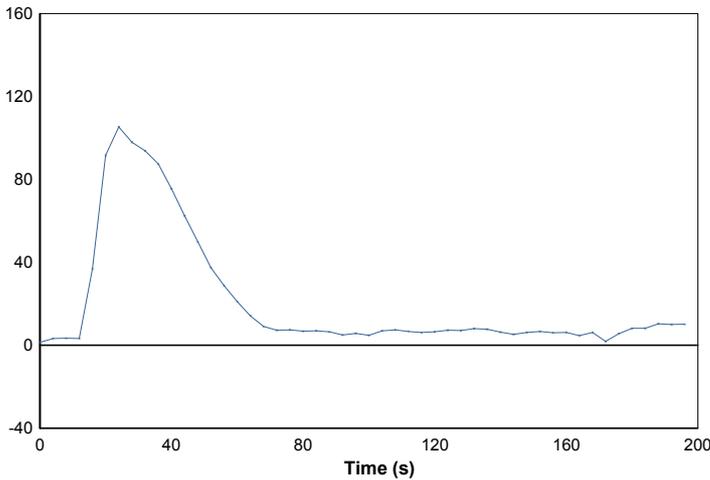
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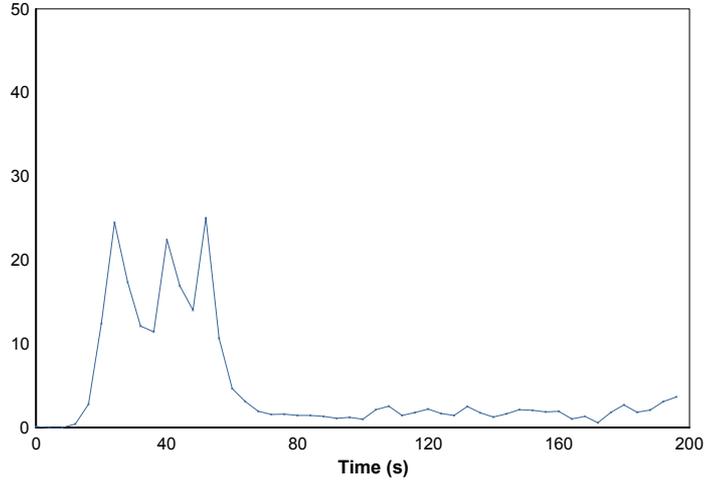
Test Number : 14-000791
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Specimen : 2

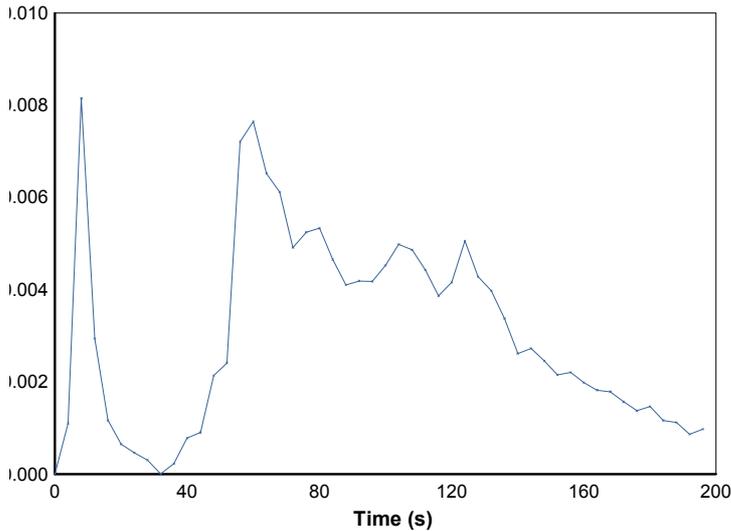
Heat release rate (kW/m²)



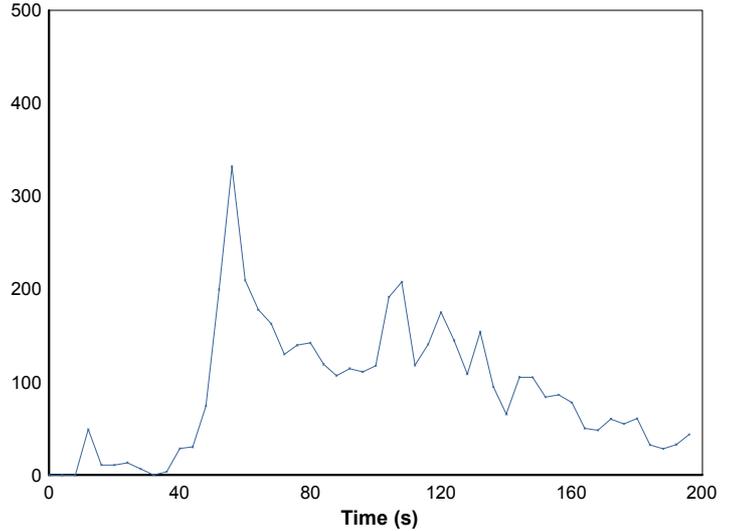
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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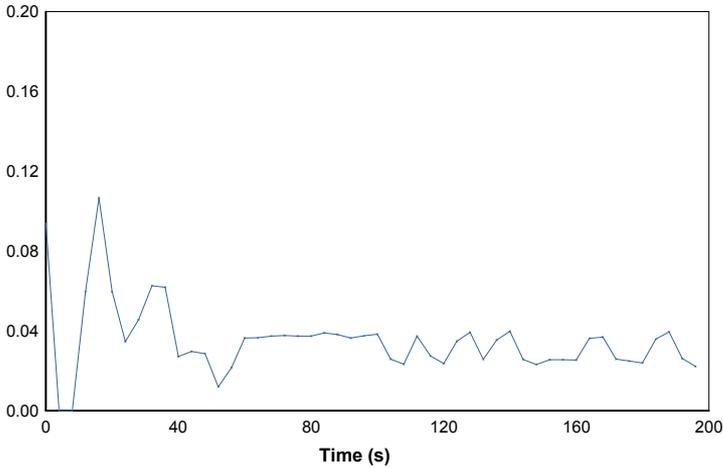
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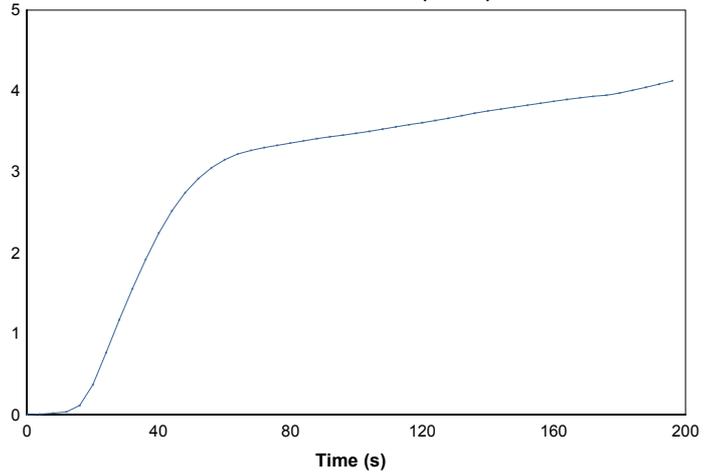
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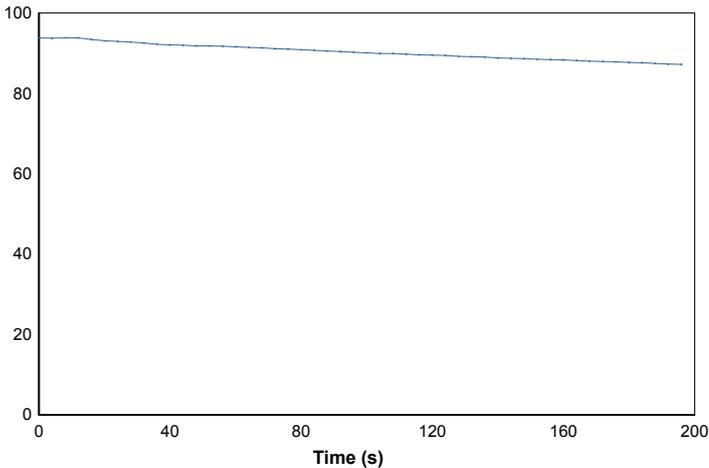
Mass loss rate (g/s)



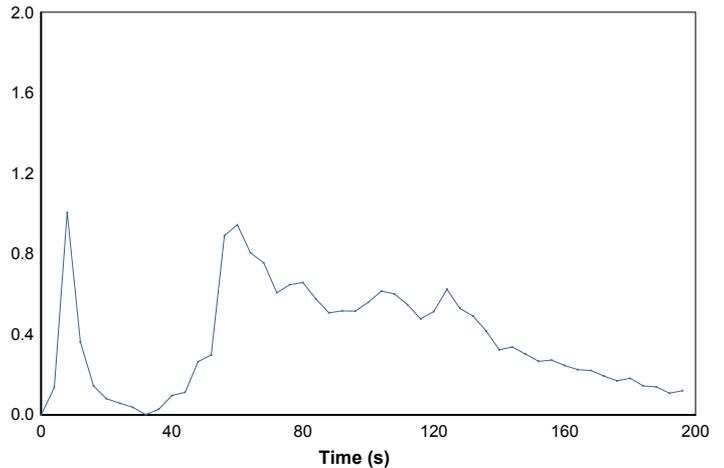
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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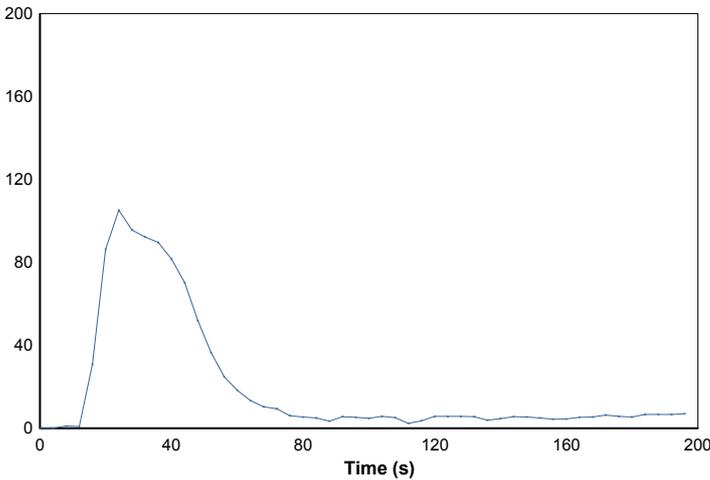
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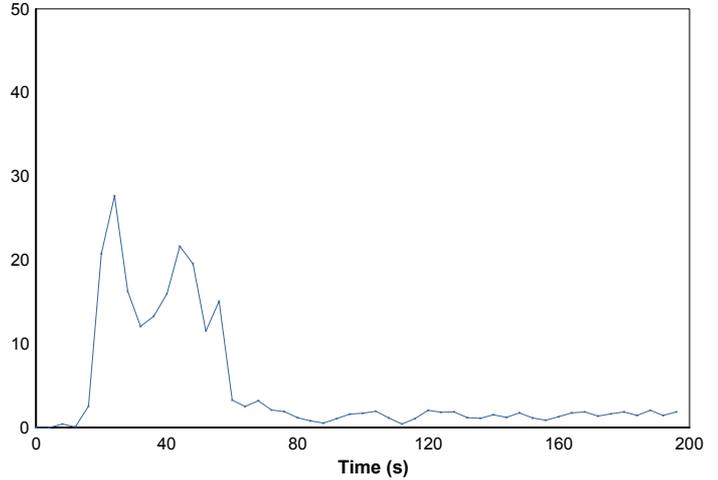
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Specimen : 3

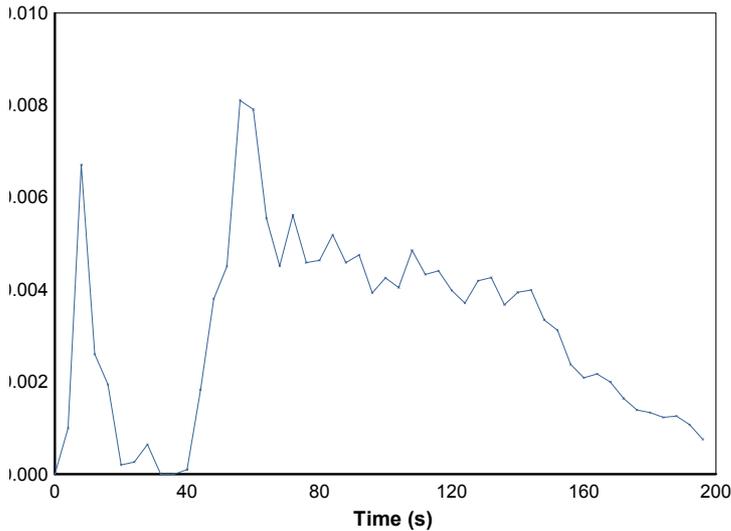
Heat release rate (kW/m²)



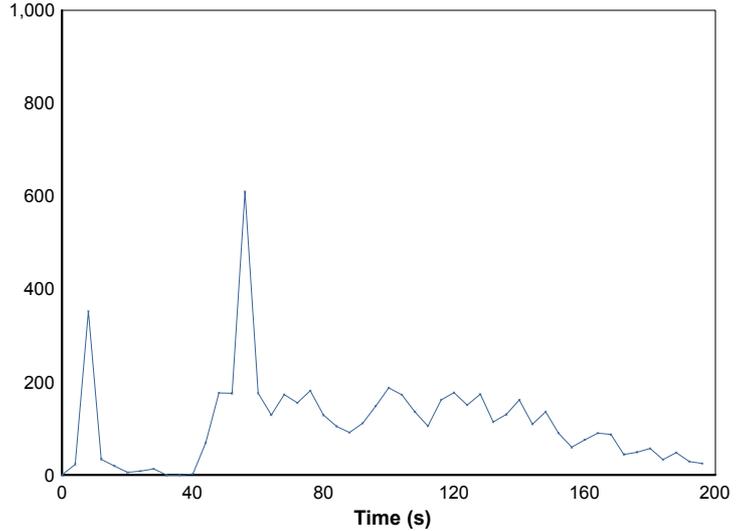
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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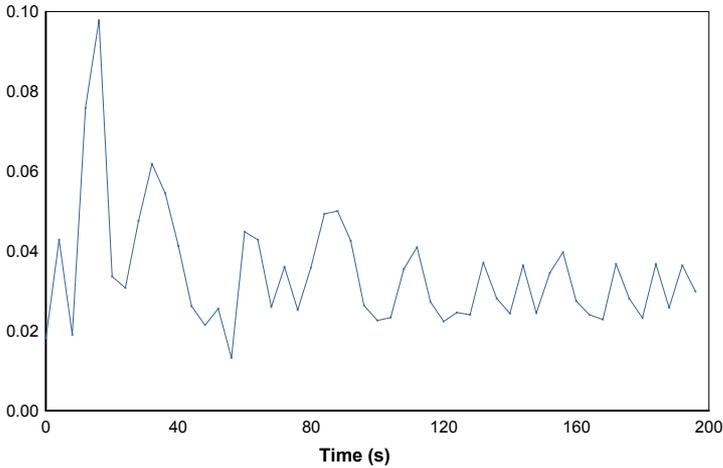
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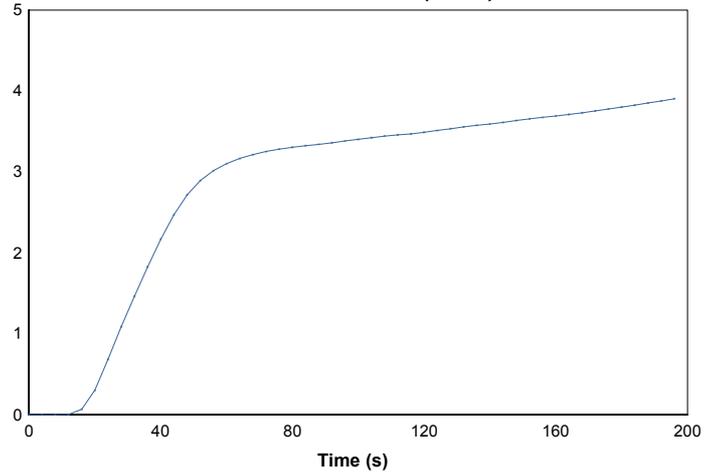
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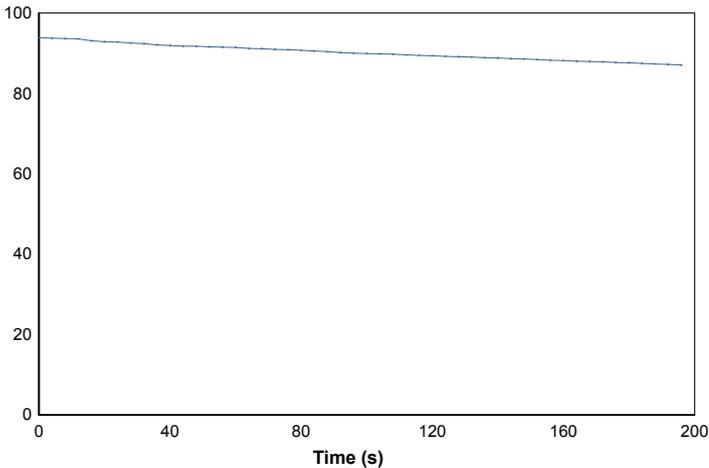
Mass loss rate (g/s)



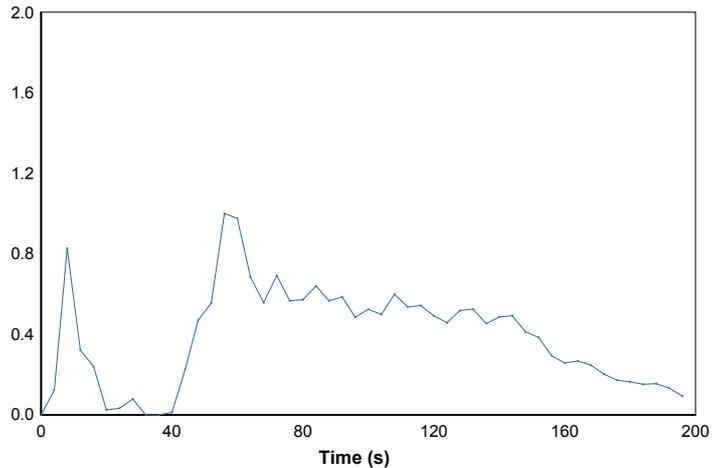
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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