

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

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing.

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 21-003608
Issue Date : 22/07/2021
Print Date : 22/07/2021

Sponsor Product Clients Ref : "Source One Performance"
Woven backcoated fabric
Colour : Baron
End Use : Wall Covering
Nominal Composition : 100% Polyester

Product Group Number Classification : 1

Average Specific Extinction Area : 34.2 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
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Test Number : 21-003608
Issue Date : 22/07/2021
Print Date : 22/07/2021
Order Number : 45298

Sample Description Clients Ref : "Source One Performance"
Woven backcoated fabric
Colour : Baron
End Use : Wall Covering
Nominal Composition : 100% Polyester

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

Date Tested 22-07-2021
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	22.5	24.3	26.1	24.3	kW/m ²
Average Specific extinction area	41.5	36.2	24.9	34.2	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	85	77	82	81	sec
Test duration	379	358	362	366	sec
Peak heat release after ignition	60.8	74.8	55.6	63.7	kW/m ²
Average heat at 60 s	35.0	44.9	40.9	40.3	kW/m ²
Average heat at 180 s	27.8	29.3	31.6	29.6	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	6.6	6.8	7.2	6.9	MJ/m ²

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MANAGING DIRECTOR

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Average effective heat of combustion	3.7	3.9	4.3	4.0	MJ/kg
Initial thickness	6.8	6.8	6.8	6.8	mm
Initial mass	92.3	90.3	90.3	91.0	g
Mass remaining	77.8	76.1	76.5	76.8	g
Mass percentage pyrolysed	15.7	15.8	15.3	15.6	%
Mass loss	1.8	1.8	1.7	1.8	kg/m ²
Average rate of mass loss	6.1	6.2	6.1	6.1	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.

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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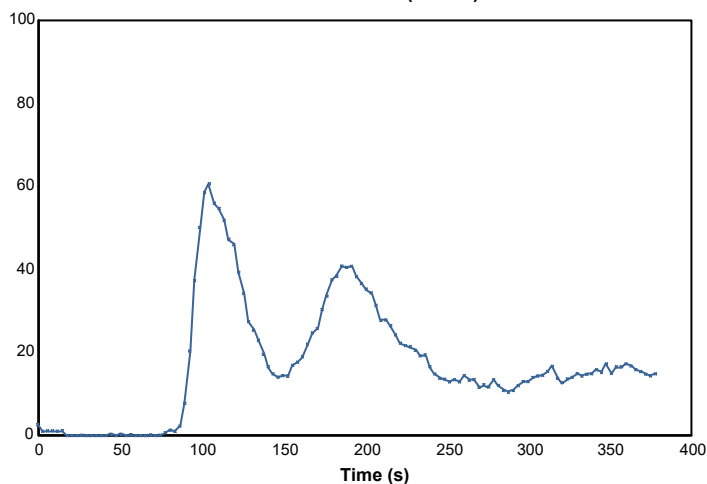
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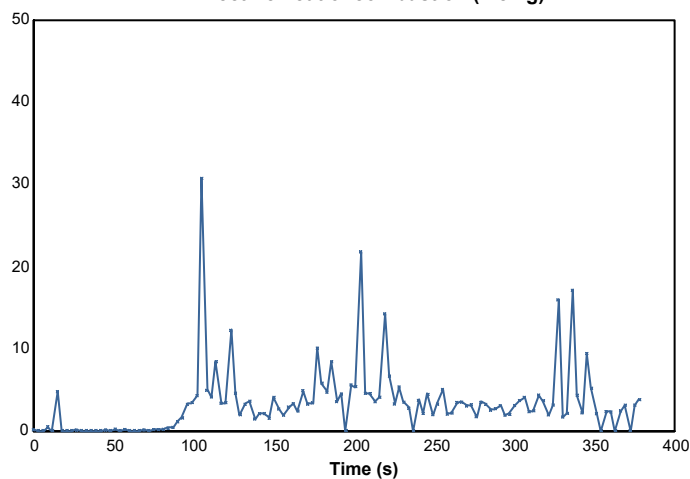
Test Number : 21-003608
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Specimen : 1

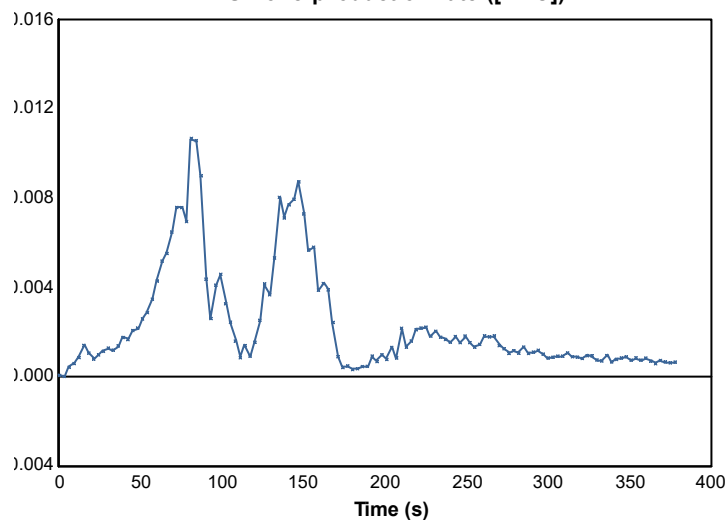
Heat release rate (kW/m²)



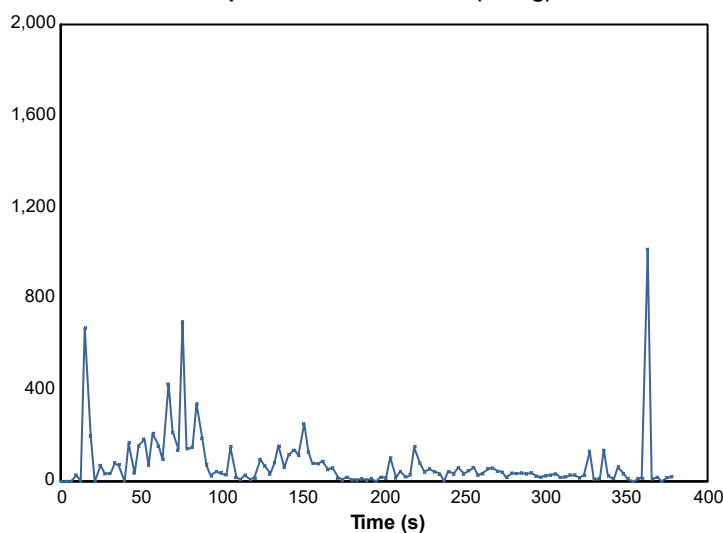
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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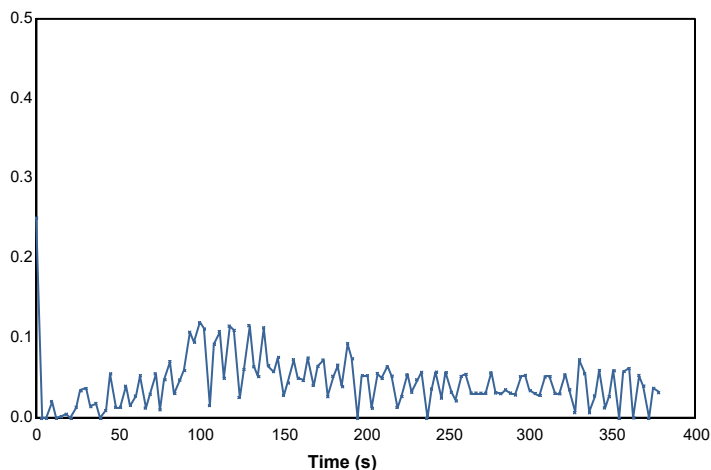
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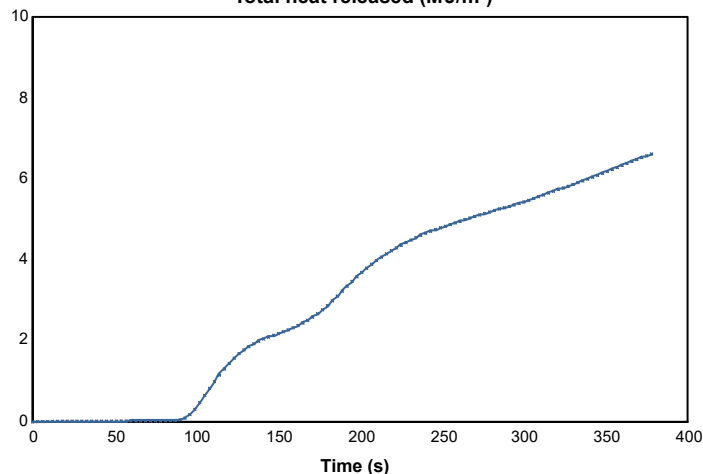
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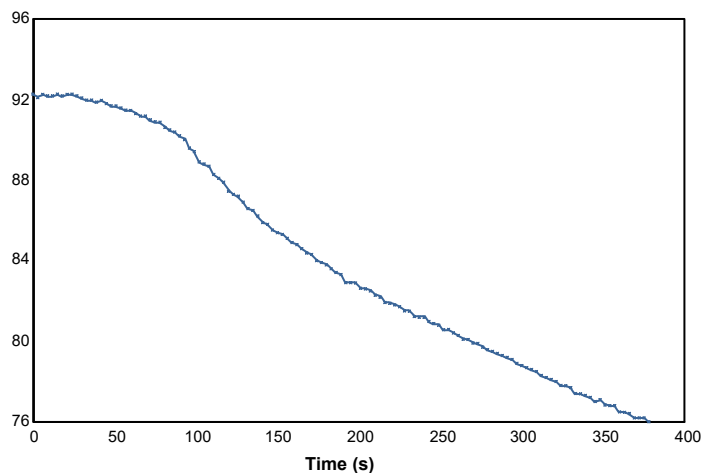
Mass loss rate (g/s)



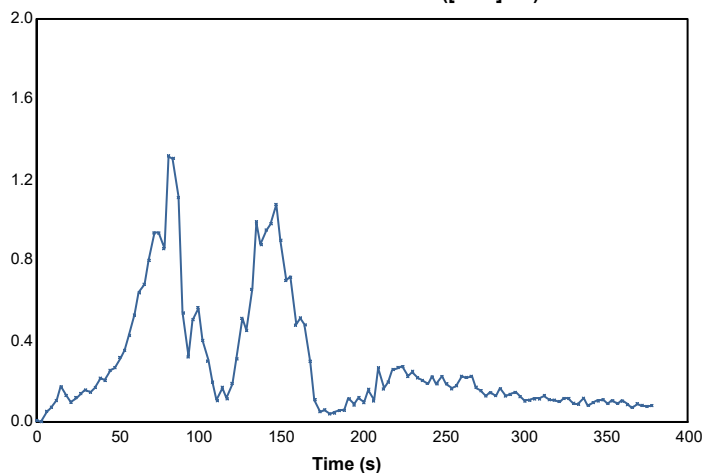
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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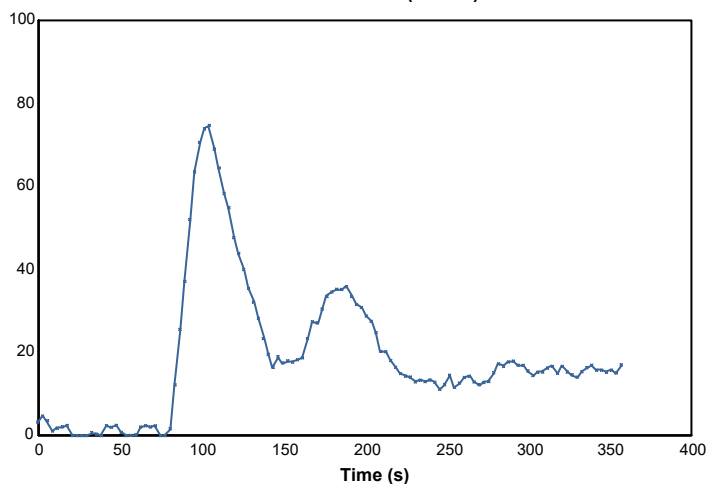
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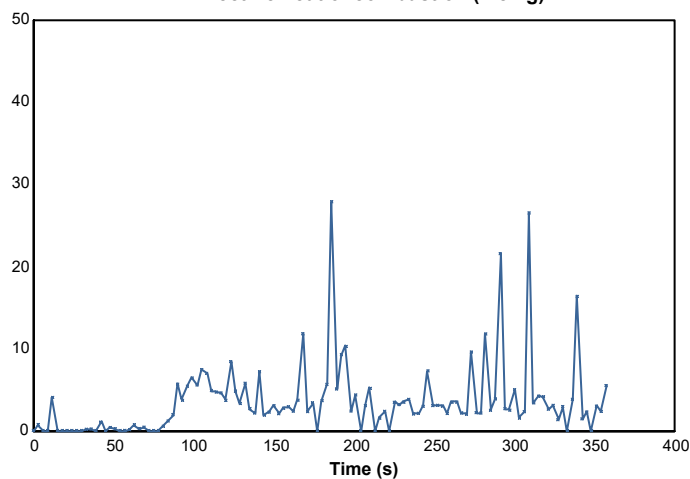
Test Number : 21-003608
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Order Number : 45298

Specimen : 2

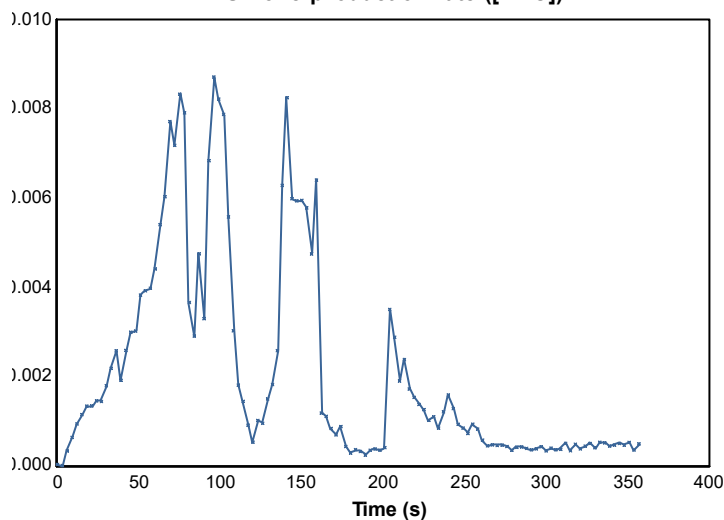
Heat release rate (kW/m²)



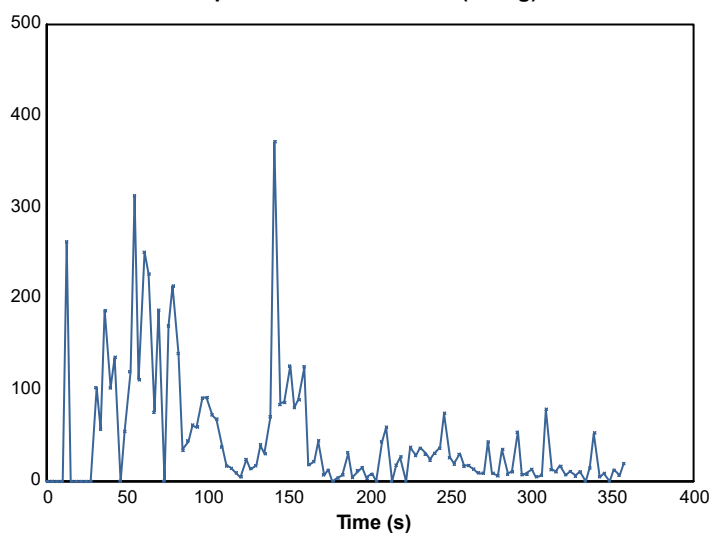
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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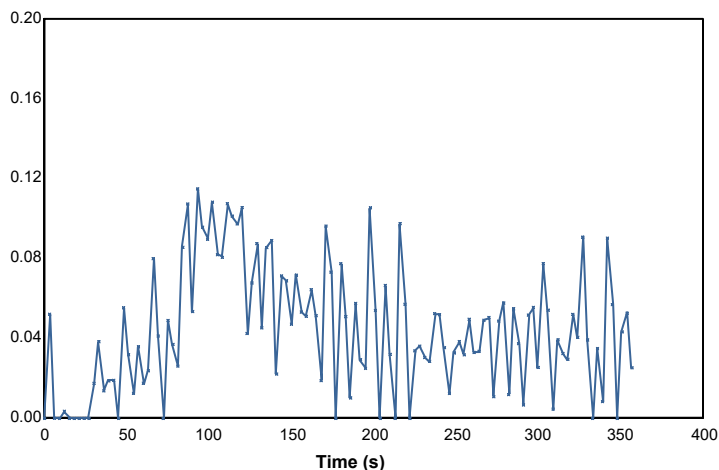
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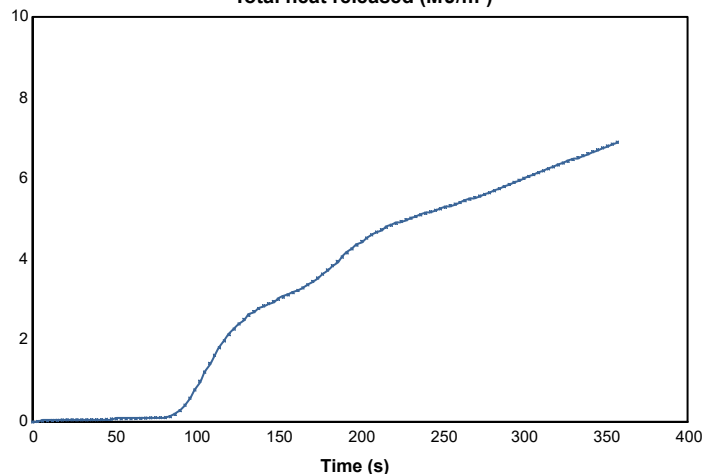
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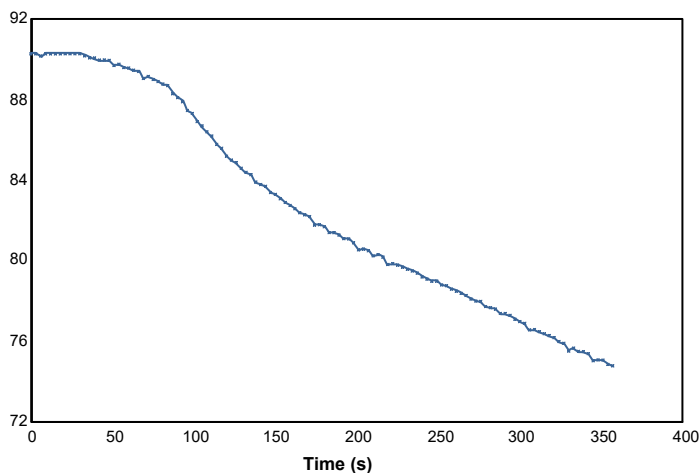
Mass loss rate (g/s)



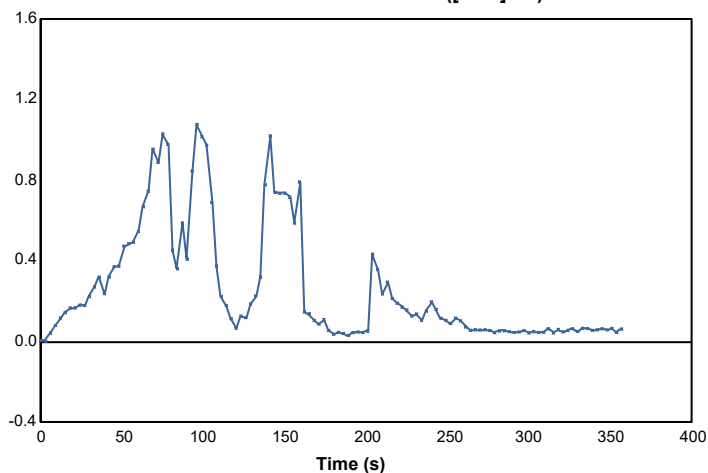
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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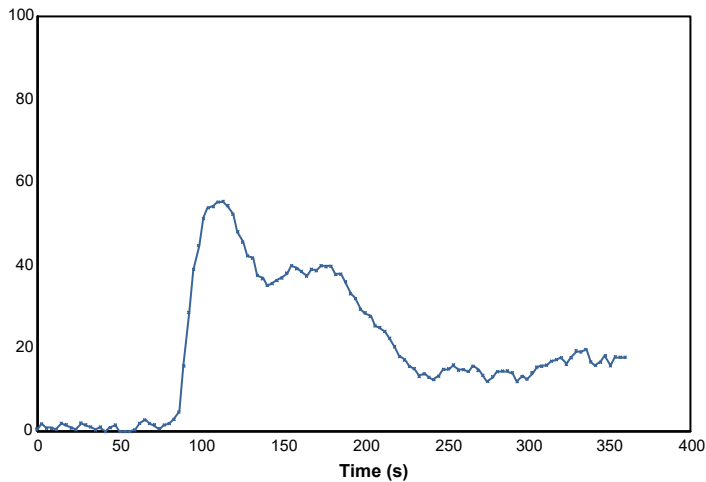
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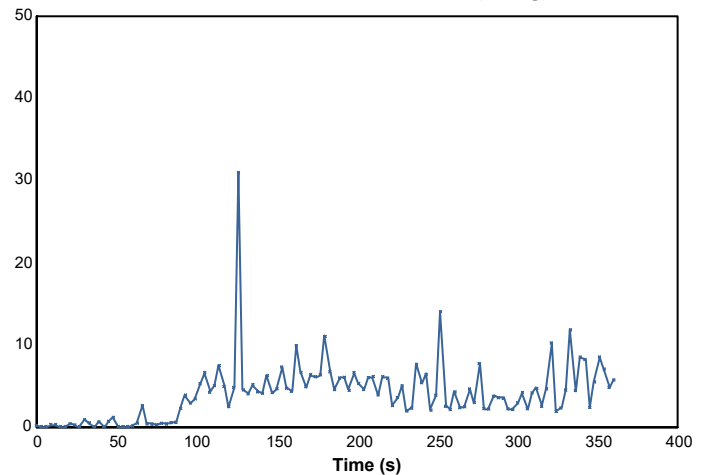
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Specimen : 3

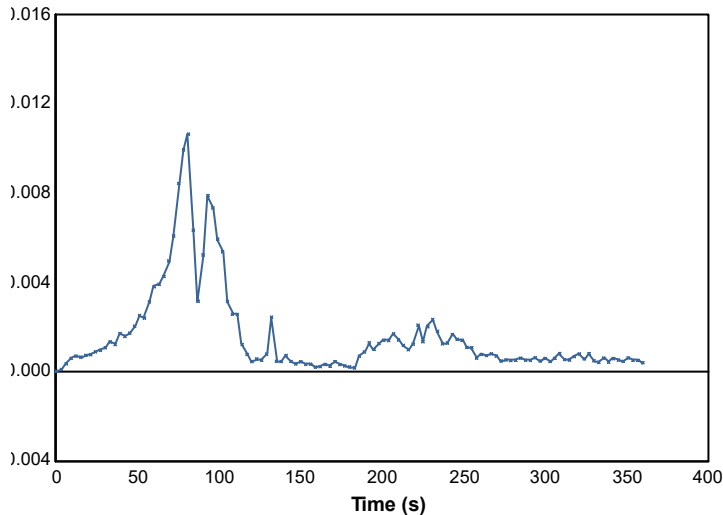
Heat release rate (kW/m²)



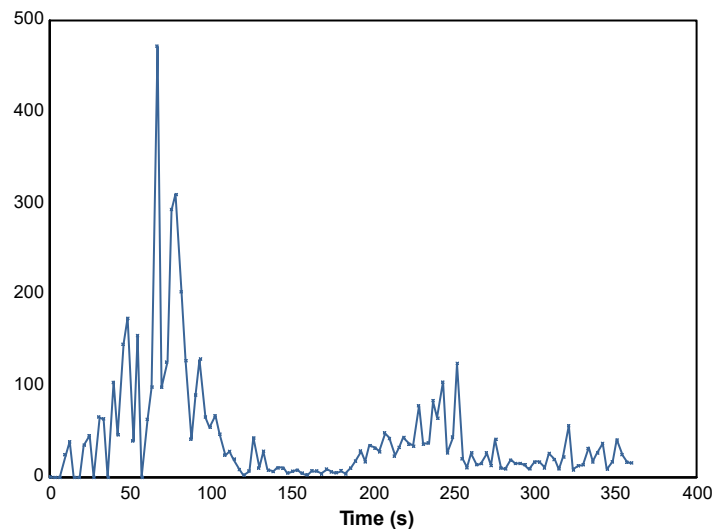
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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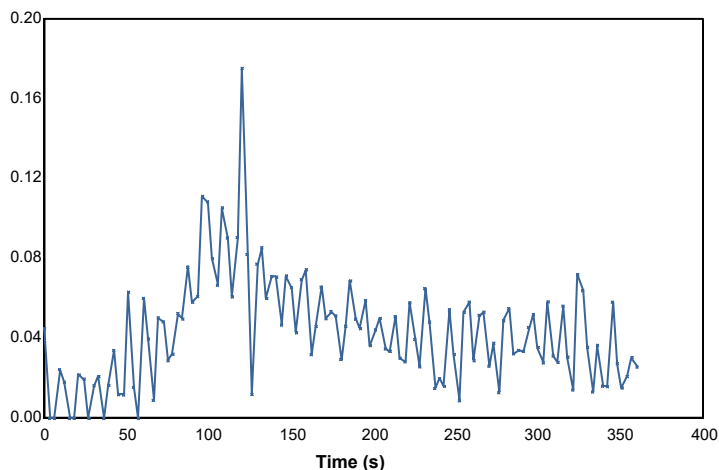
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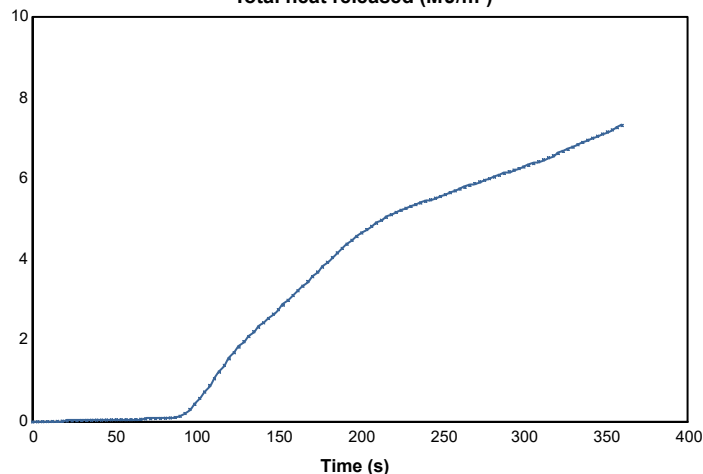
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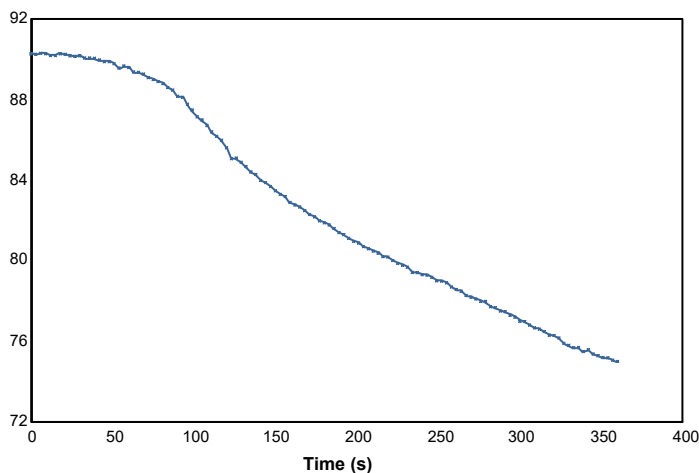
Mass loss rate (g/s)



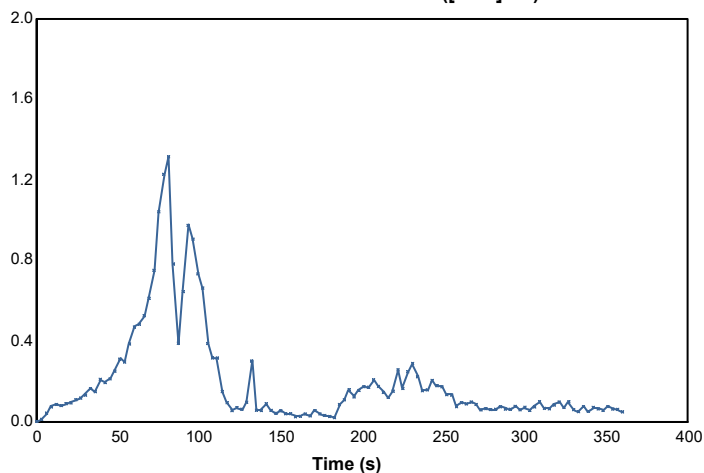
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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