

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

MICHELANGELO BASE CLOTH

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.

Test Number : 19-005890

Issue Date : 14/10/2019

Print Date : 14/10/2019

Sponsor Product

Crepe Woven Fabric

Colour : White

End Use : Wall covering/ Panels

Nominal Composition : 100% Polyester

Nominal Mass per Unit Area/Density : 275g/m2

Product Group Number Classification : 1

Average Specific Extinction Area : 87.0 m²/kg

A handwritten signature in blue ink, appearing to read 'Fiona McDonald'.

Fiona McDonald
Testing Technologist

39676

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TEST REPORT

Test Number : 19-005890
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Print Date : 14/10/2019
Order Number : 41514

Sample Description

Crepe Woven Fabric
Colour : White
End Use : Wall covering/ Panels
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : 275g/m2

AS/NZS 3837-1998

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

Date Tested 14/10/2019
Operator AWTA Test Operator 7
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	32.6	33.7	33.7	33.3	kW/m ²
Average Specific extinction area	104.3	69.4	87.3	87.0	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	100	96	89	95	sec
Test duration	358	355	338	350	sec
Peak heat release after ignition	154.2	111.3	142.8	136.1	kW/m ²
Average heat at 60 s	85.4	82.3	88.8	85.5	kW/m ²
Average heat at 180 s	41.0	41.5	41.5	41.3	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²

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- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

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Total heat released	8.4	8.6	8.4	8.5	MJ/m ²
Average effective heat of combustion	6.1	5.8	6.2	6.0	MJ/kg
Initial thickness	6.5	6.5	6.5	6.5	mm
Initial mass	89.0	88.2	88.3	88.5	g
Mass at sustained flaming	85.9	85.5	86.1	85.8	g
Mass remaining	77.8	76.0	77.3	77.0	g
Mass percentage pyrolysed	12.6	13.8	12.4	13.0	%
Mass loss	1.4	1.5	1.4	1.4	kg/m ²
Average rate of mass loss	5.4	5.8	5.4	5.5	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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TEST REPORT

Test Number : 19-005890

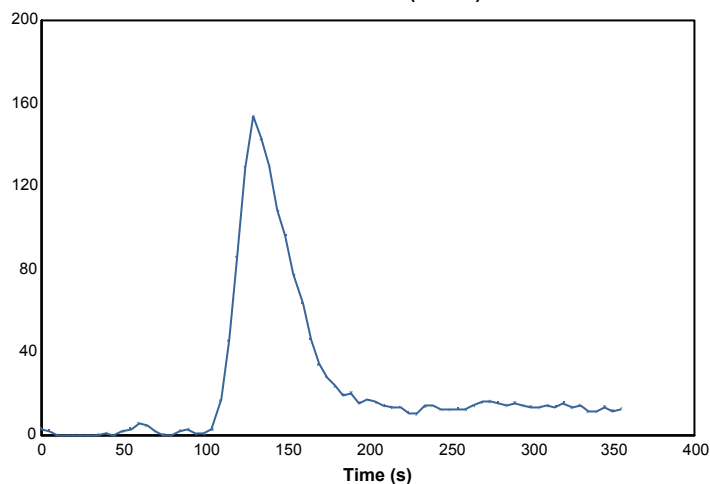
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Print Date : 14/10/2019

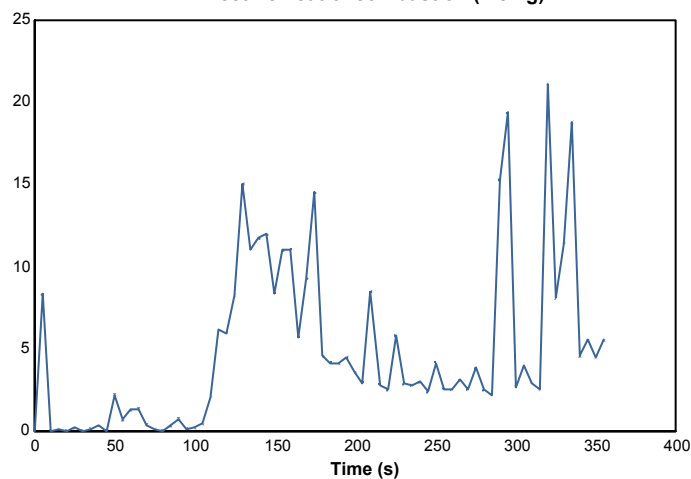
Order Number : 41514

Specimen : 1

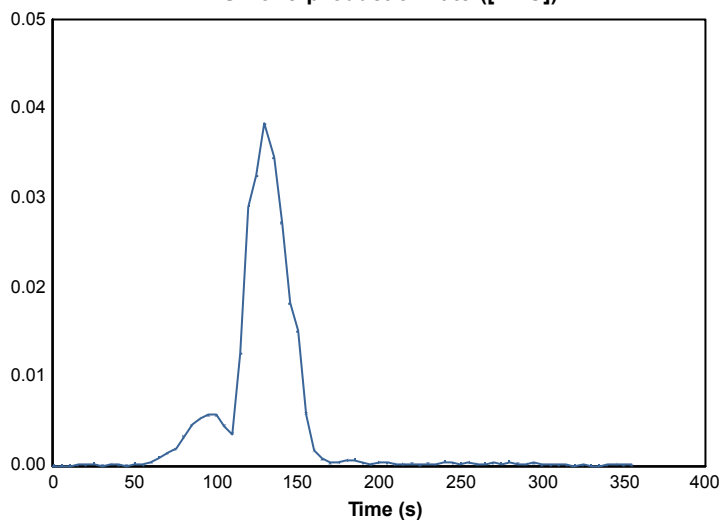
Heat release rate (kW/m²)



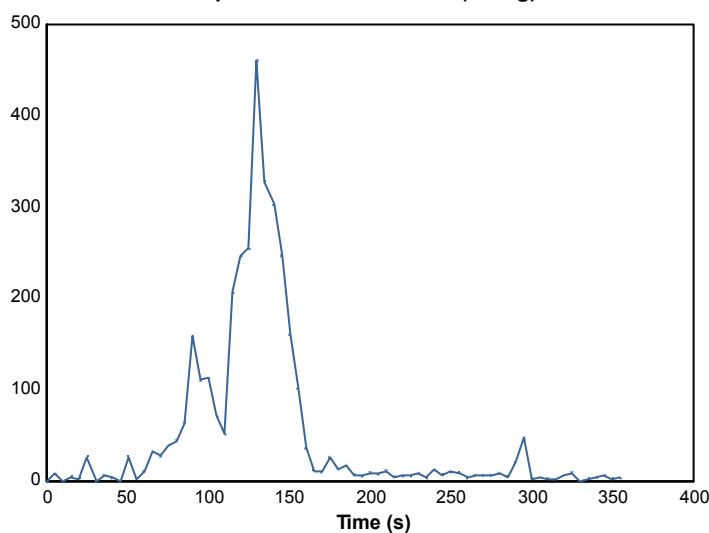
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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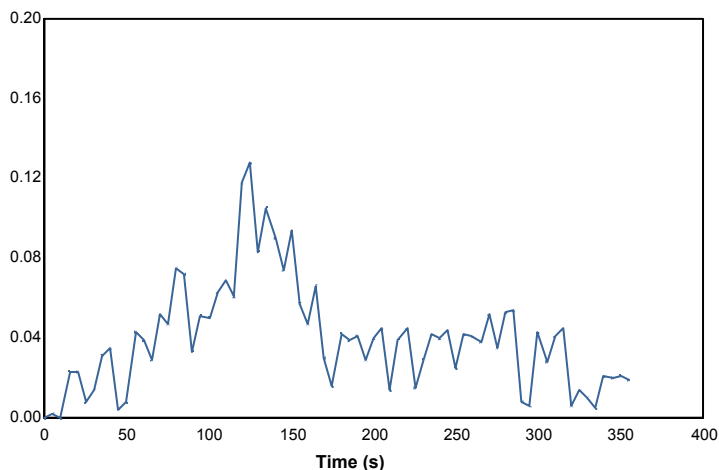
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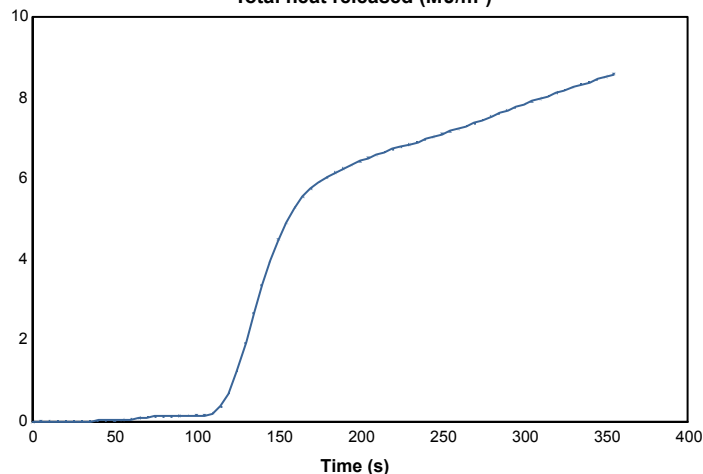
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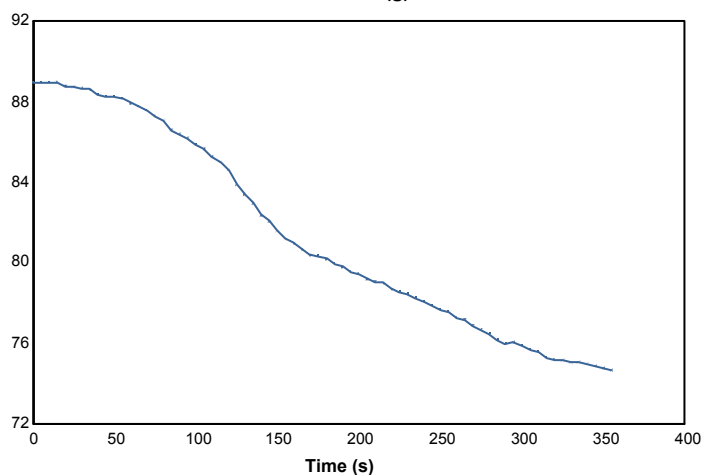
Mass loss rate (g/s)



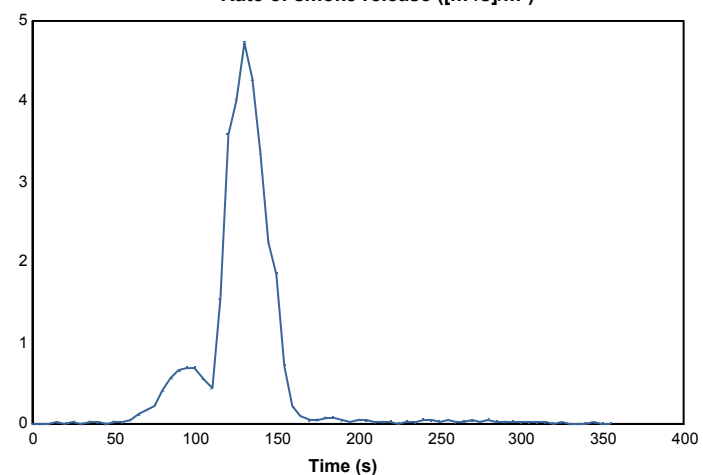
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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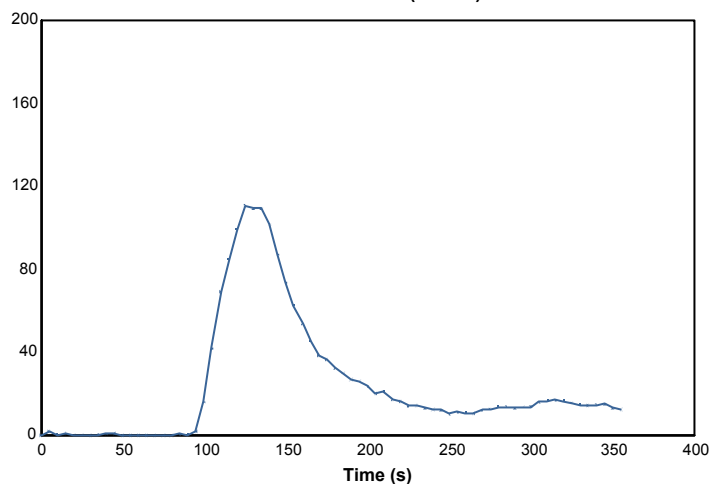
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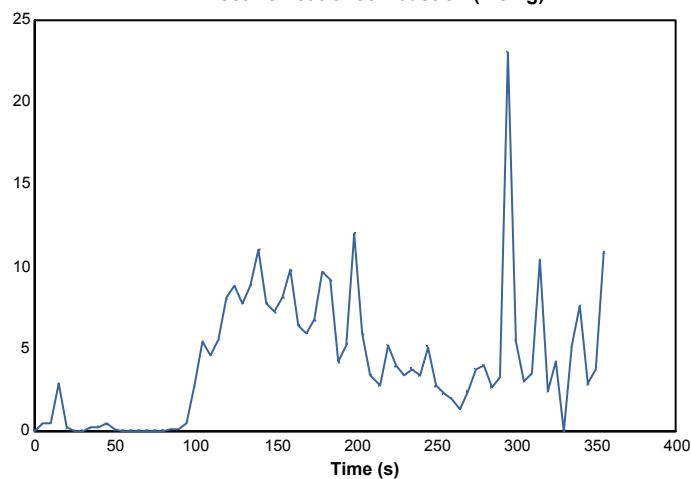
Order Number : 41514

Specimen : 2

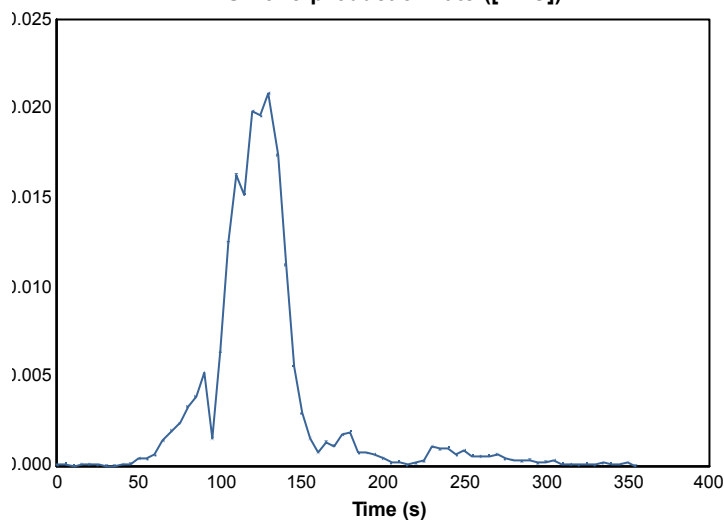
Heat release rate (kW/m²)



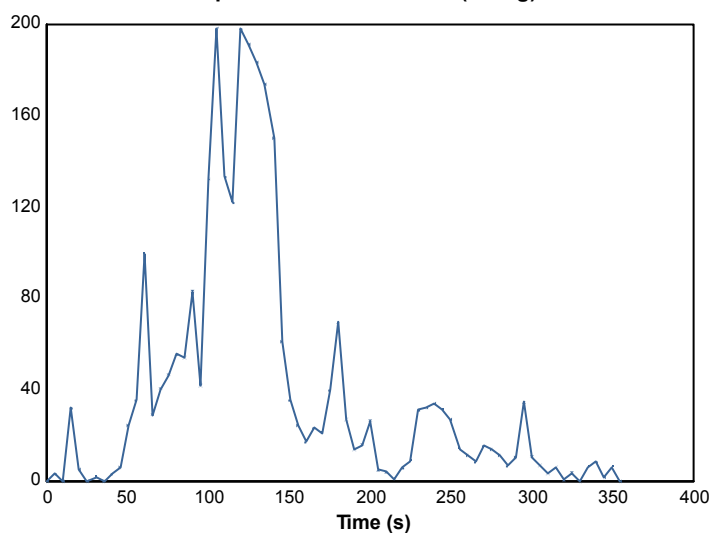
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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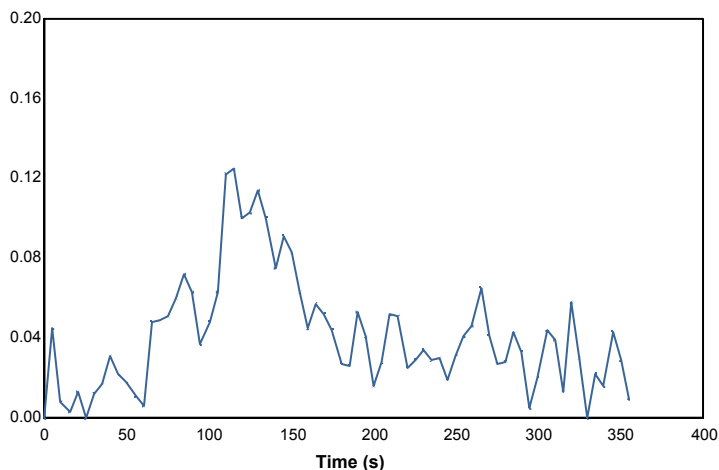
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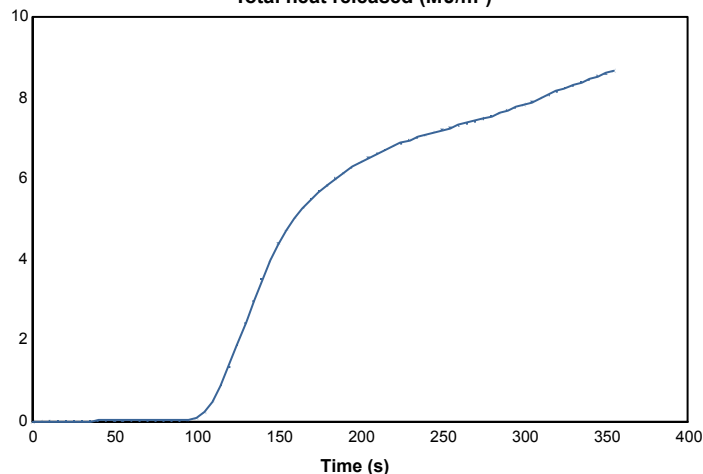
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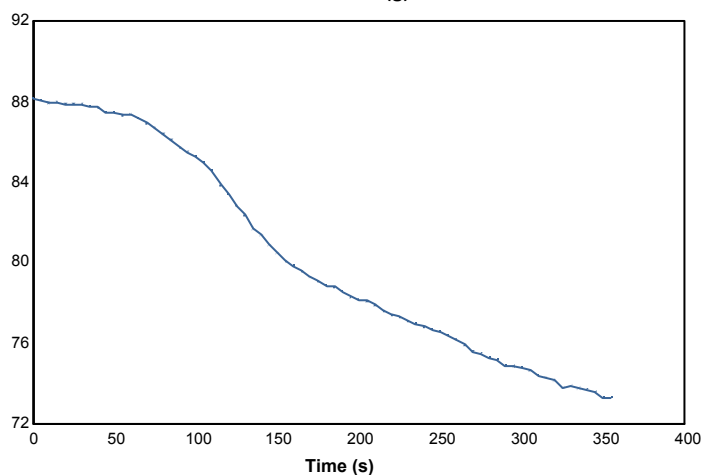
Mass loss rate (g/s)



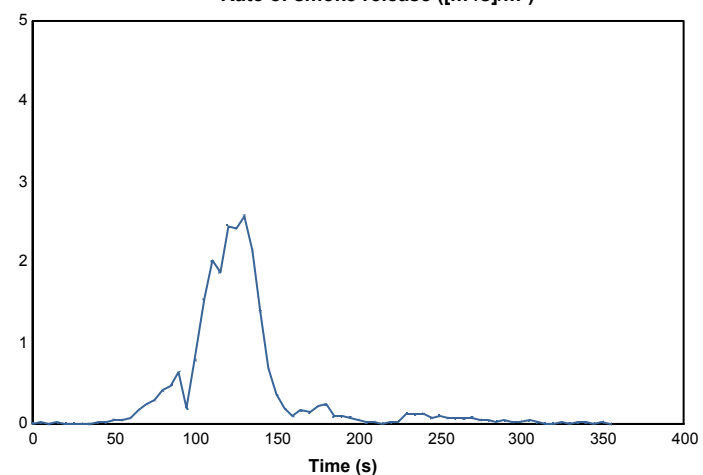
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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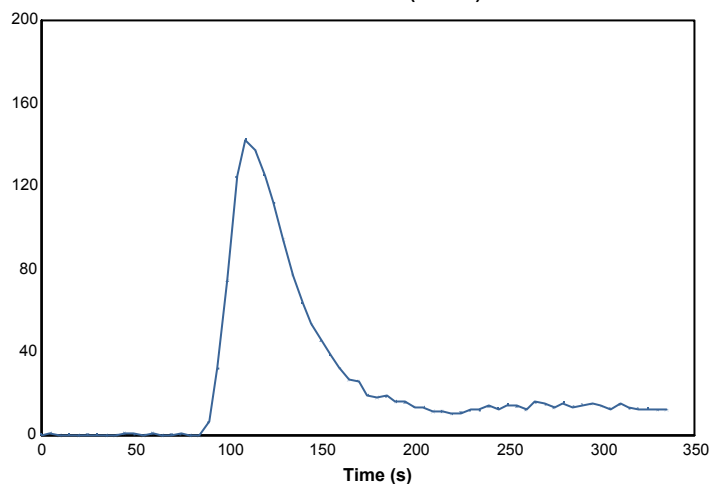
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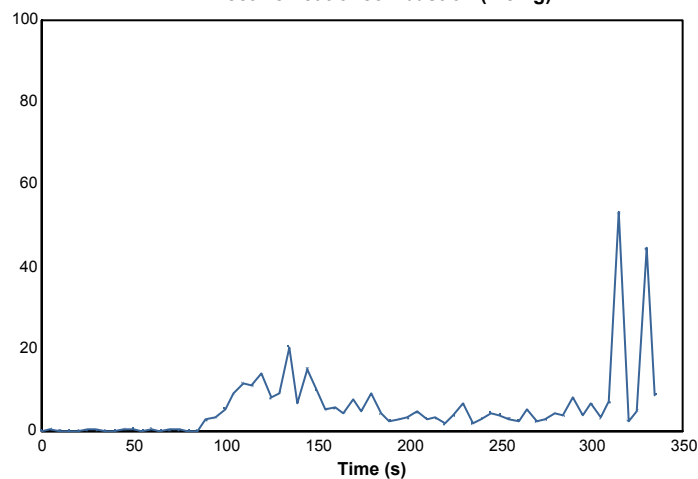
Order Number : 41514

Specimen : 3

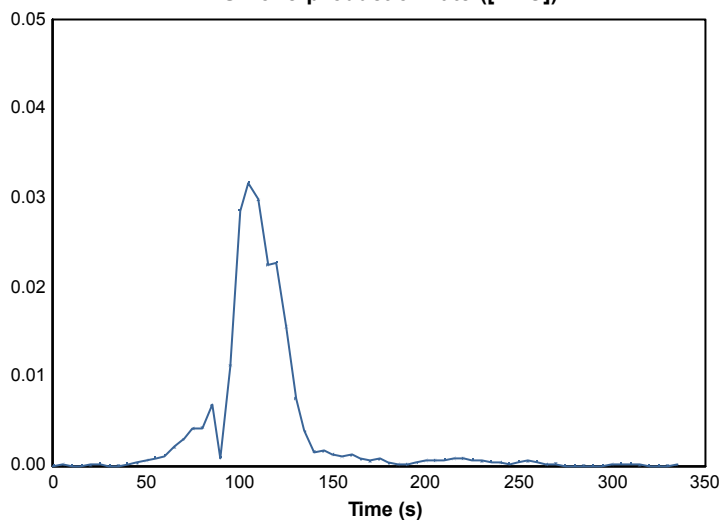
Heat release rate (kW/m²)



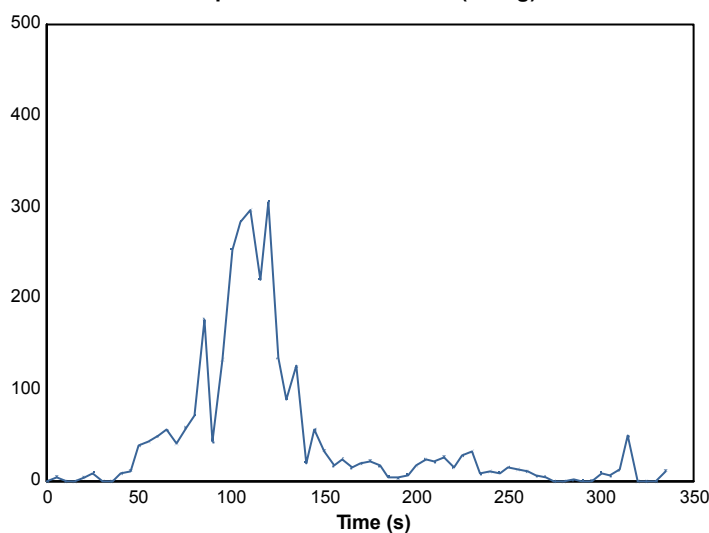
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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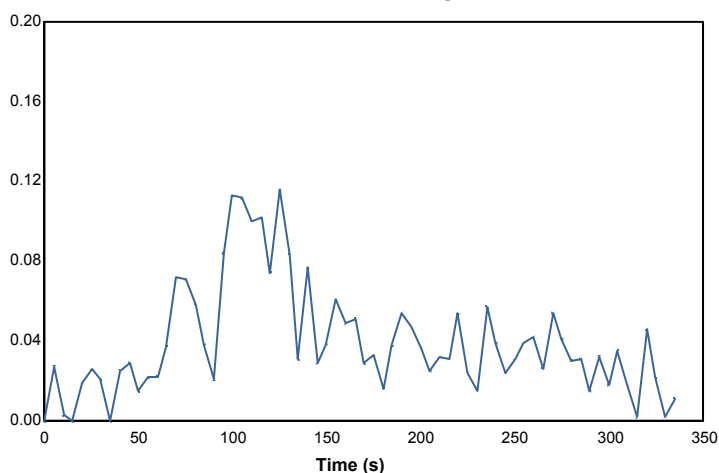
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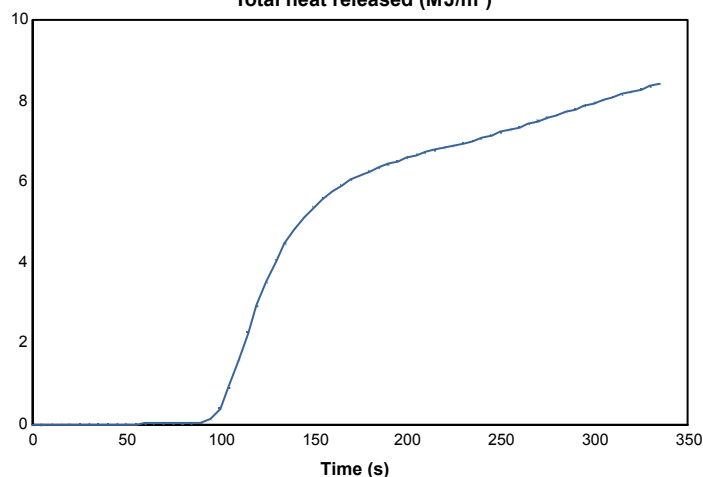
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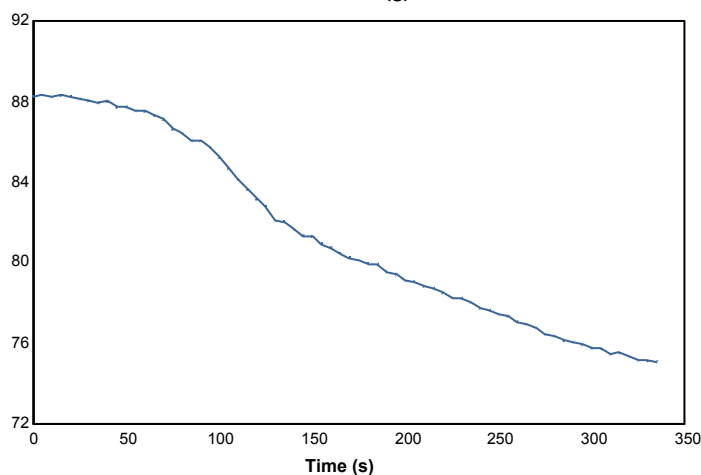
Mass loss rate (g/s)



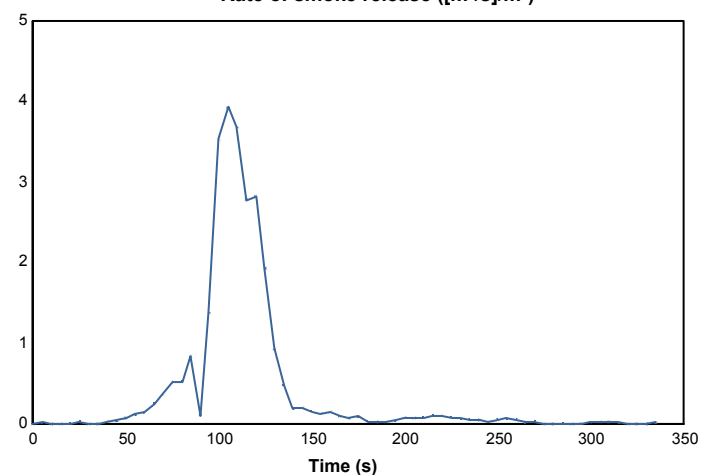
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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