

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

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 Sponsor : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 17-003309
Issue Date : 20/07/2017
Print Date : 20/07/2017

Sponsor Product Clients Ref : "Main Sail, Silk Road & Sandy Bank - Vinyl Wall Covering"
Coated fabric
Colour : White
End Use : Wallcovering

Product Group Number Classification : 1
Average Specific Extinction Area : 87.1 m²/kg



Chris Campbell
Client Relations Manager

20416

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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 17-003309
Issue Date : 20/07/2017
Print Date : 20/07/2017
Order Number : 35887

Sample Description Clients Ref : "Vinyl Wall Covering"
Coated fabric
Colour : White
End Use : Wallcovering

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	11.5	12.6	11.9	12.0	kW/m ²
Average Specific extinction area	74.2	82.6	104.3	87.1	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	92	97	112	100	sec
Test duration	336	318	360	338	sec
Peak heat release after ignition	33.7	32.5	35.8	34.0	kW/m ²
Average heat at 60 s	26.3	27.6	24.8	26.2	kW/m ²
Average heat at 180 s	12.5	13.4	12.6	12.8	kW/m ²
Average heat at 300 s	11.5	n/a	11.9	7.8	kW/m ²
Total heat released	2.8	2.9	3.3	3.0	MJ/m ²
Average effective heat of combustion	2.3	2.5	2.5	2.5	MJ/kg

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- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
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Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	89.5	91.9	90.5	90.6	g
Mass remaining	76.5	79.0	76.1	77.2	g
Mass percentage pyrolysed	14.5	14.0	15.9	14.8	%
Mass loss	13.0	12.9	14.4	13.4	g
Average rate of mass loss	4.9	5.0	4.8	4.9	g/m ² .s

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.

Samples were adhered to a substrate of 6mm thick cement sheet using Professional Ultra Clear Pro 880 adhesive prior to testing

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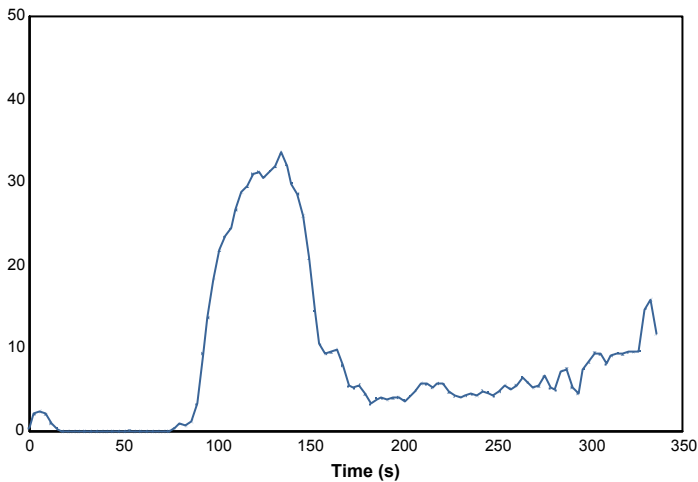
TEST REPORT

Client : Materialised Pty Ltd
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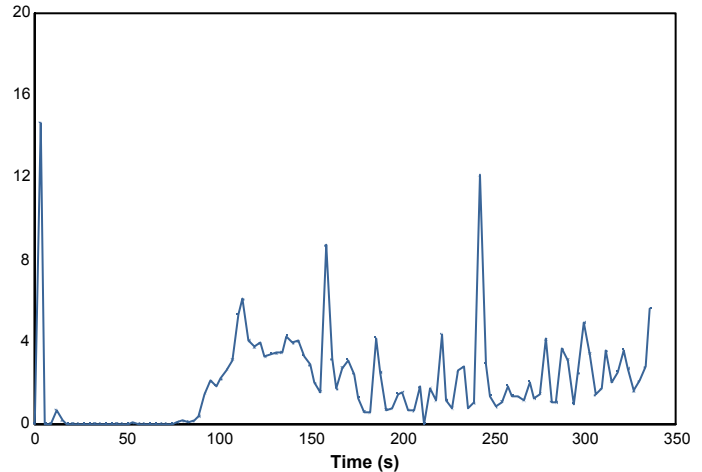
Test Number : 17-003309
Issue Date : 20/07/2017
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Specimen : 1

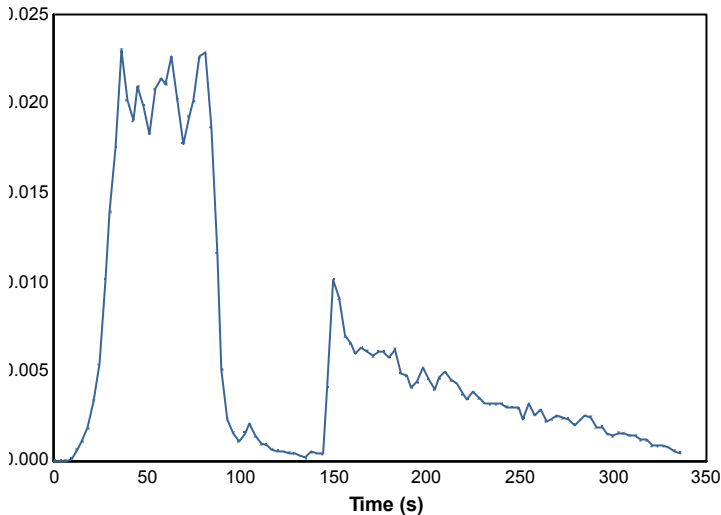
Heat release rate (kW/m²)



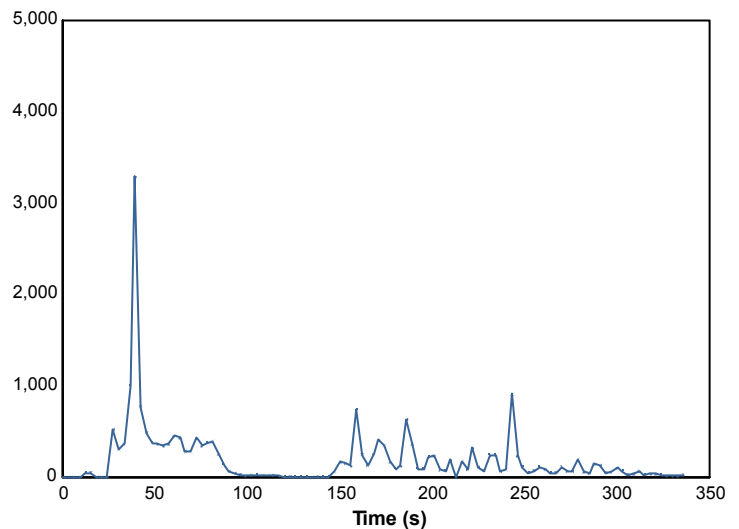
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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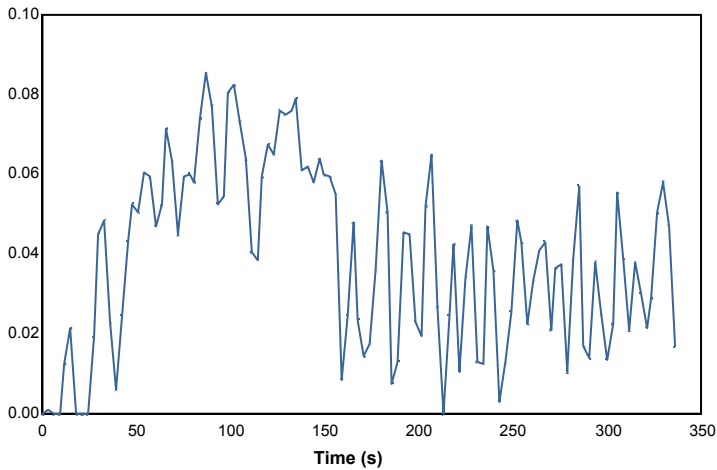
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

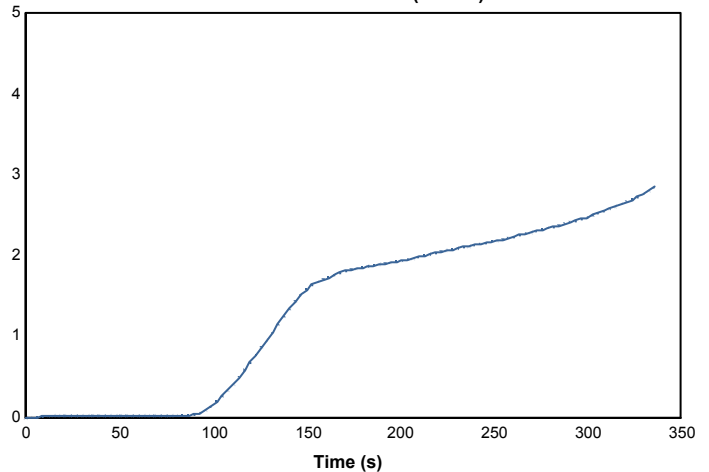
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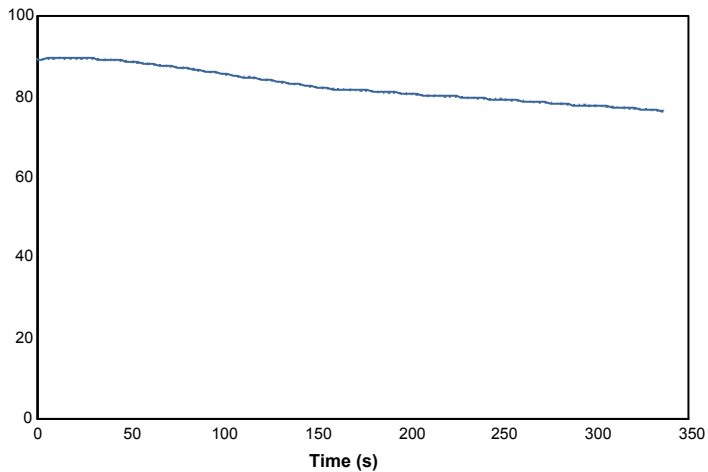
Mass loss rate (g/s)



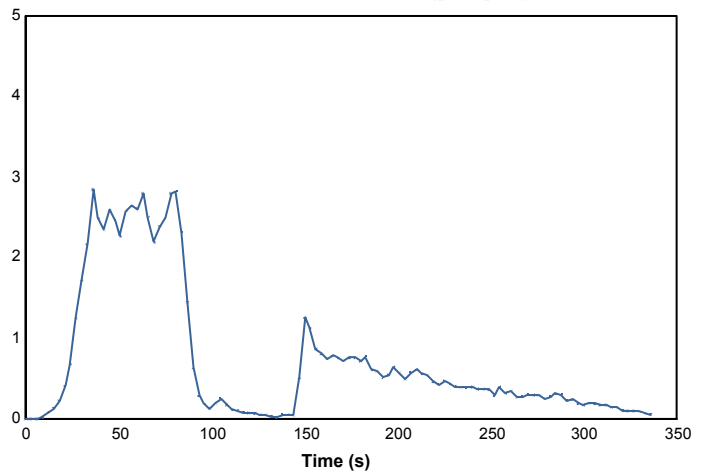
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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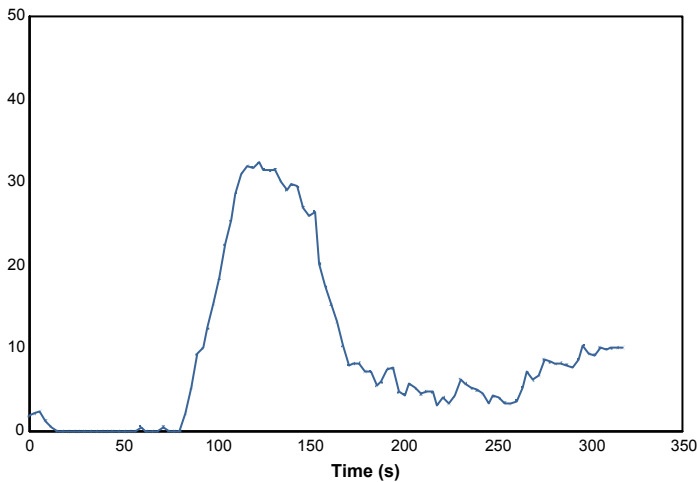
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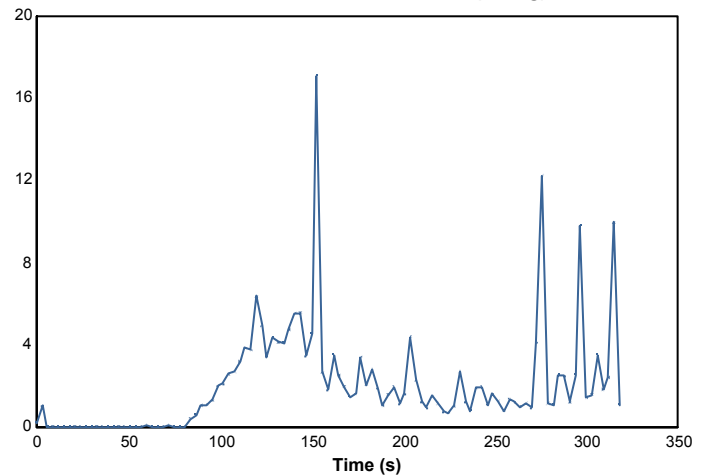
Test Number : 17-003309
Issue Date : 20/07/2017
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Order Number : 35887

Specimen : 2

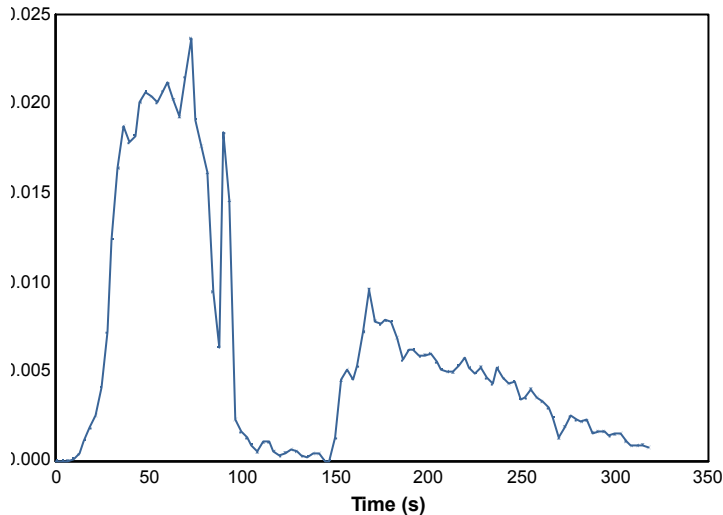
Heat release rate (kW/m²)



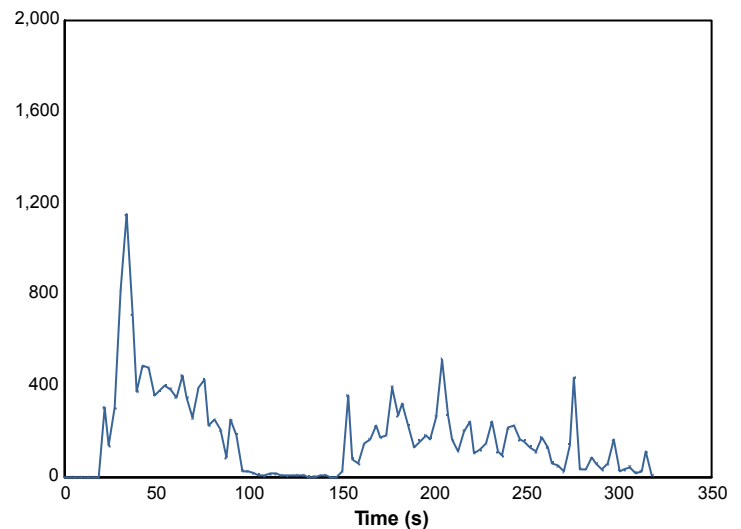
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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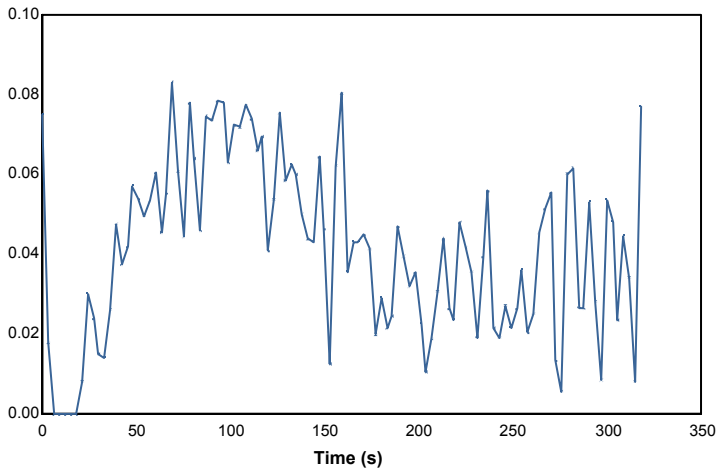
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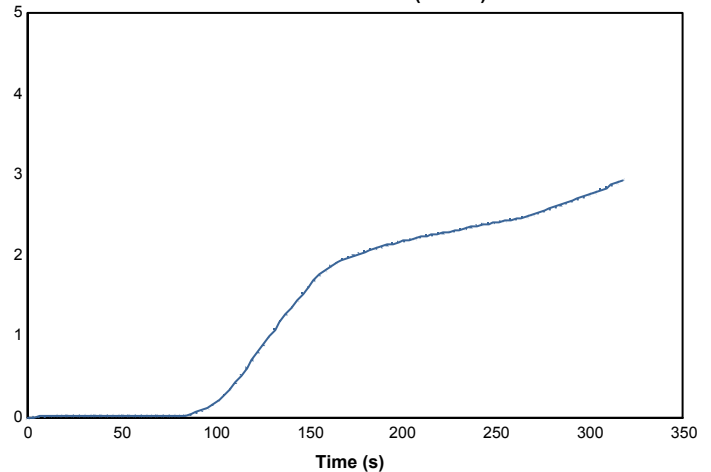
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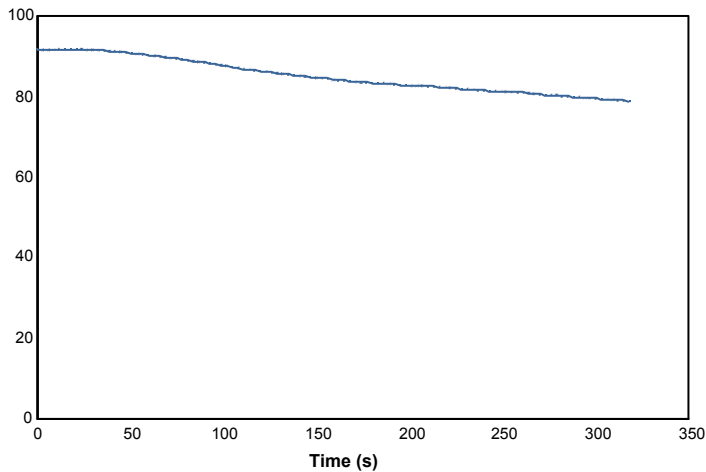
Mass loss rate (g/s)



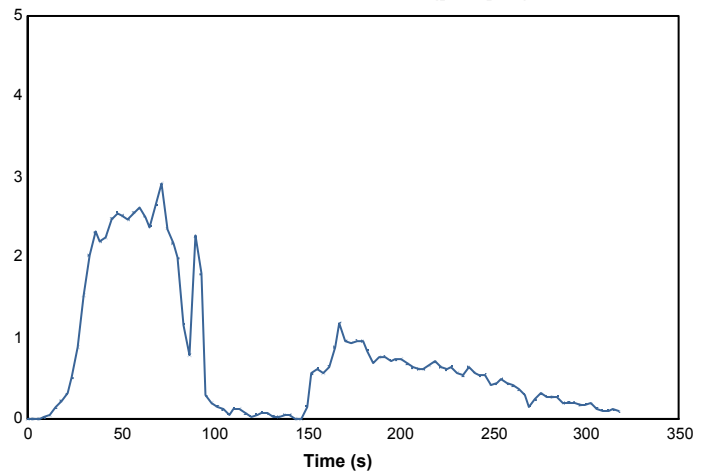
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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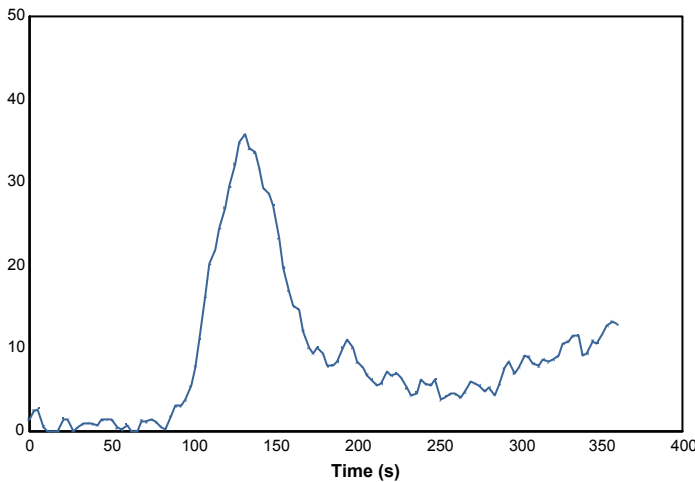
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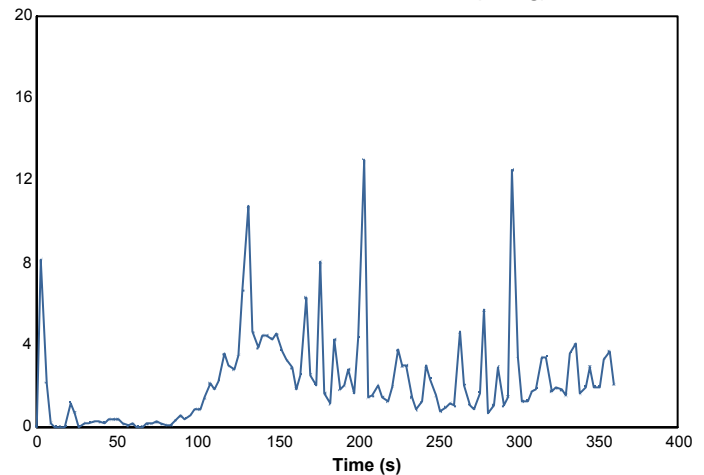
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Specimen : 3

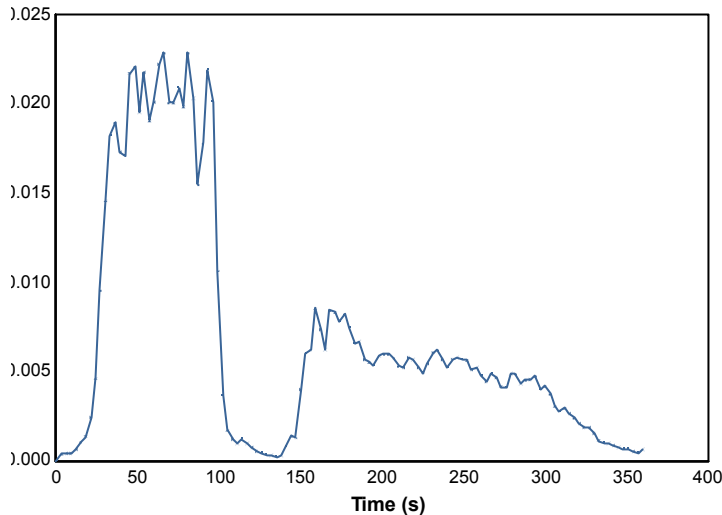
Heat release rate (kW/m²)



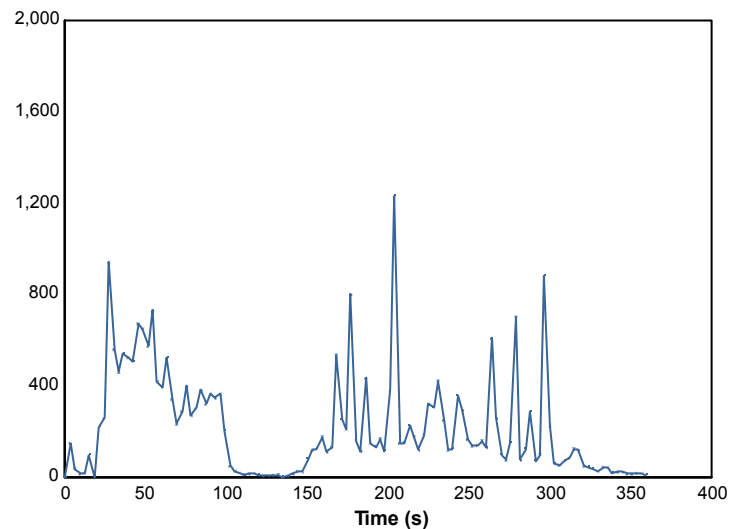
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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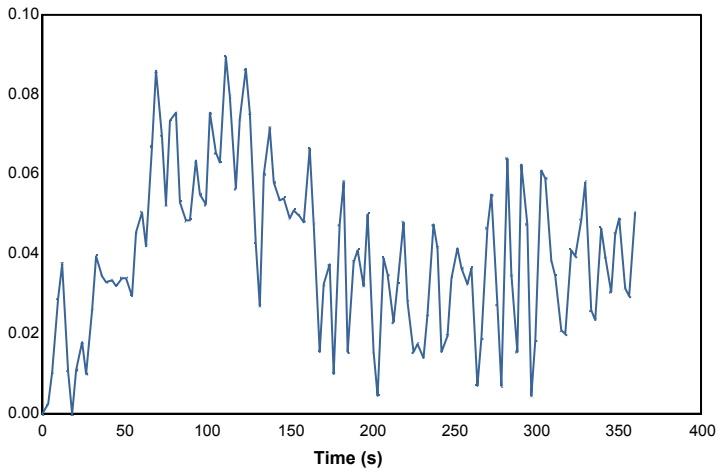
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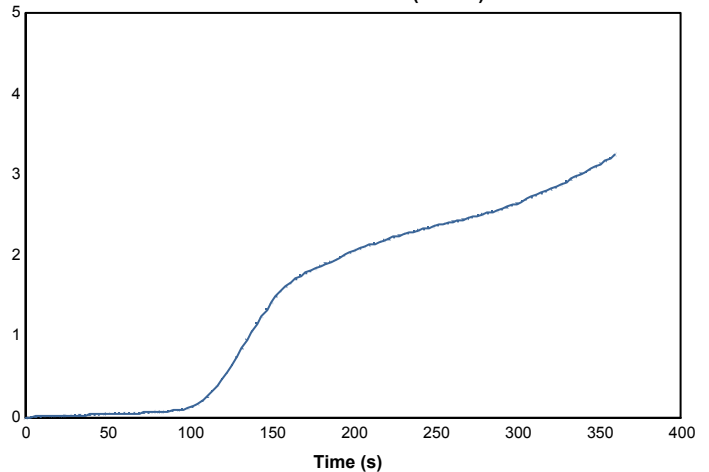
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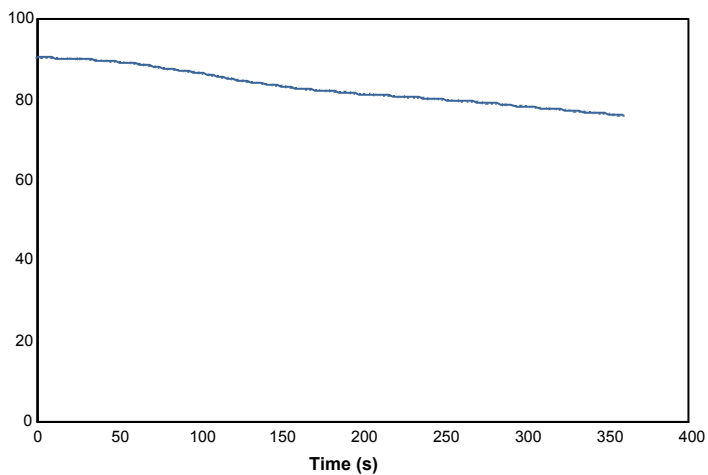
Mass loss rate (g/s)



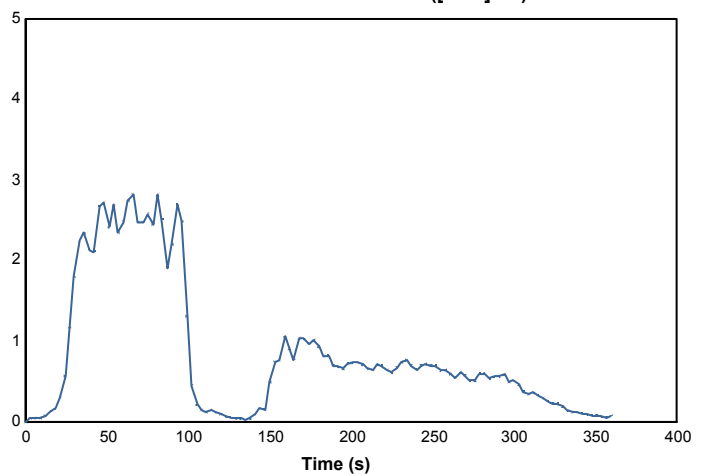
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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