

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 : 21-003076
Issue Date : 25/06/2021
Print Date : 25/06/2021

Sponsor Product Clients Ref : "Handcrafted"
Printed wallpaper sample
Colour : Multicolour
End Use : Wallcovering
Nominal Composition : Facing: Polyester/Metal Film
Backing: Non woven
Nominal Mass per Unit Area/Density : Approx: 370g/m2
Nominal Thickness : Approx: 0.6mm

Product Group Number Classification : 2

Average Specific Extinction Area : 27.4 m²/kg



Fiona McDonald
Testing Technologist

52401

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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 21-003076
Issue Date : 24/06/2021
Print Date : 25/06/2021
Order Number : 45002

Sample Description Clients Ref : "Handcrafted"
Printed wallpaper sample
Colour : Multicolour
End Use : Wallcovering
Nominal Composition : Facing: Polyester/Metal Film
Backing: Non woven
Nominal Mass per Unit Area/Density : Approx: 370g/m2
Nominal Thickness : Approx: 0.6mm

AS/NZS 3837-1998

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

Date Tested 24-06-2021
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	43.7	41.6	45.2	43.5	kW/m ²
Average Specific extinction area	23.9	24.7	33.5	27.4	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	12	14	10	12	sec
Test duration	276	240	246	254	sec
Peak heat release after ignition	104.5	106.7	100.1	103.8	kW/m ²
Average heat at 60 s	75.7	73.0	71.2	73.3	kW/m ²

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MANAGING DIRECTOR

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Average heat at 180 s	56.0	47.9	53.3	52.4	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	11.5	9.4	10.6	10.5	MJ/m ²
Average effective heat of combustion	7.7	7.2	7.6	7.5	MJ/kg
Initial thickness	10.6	10.6	10.6	10.6	mm
Initial mass	63.7	61.9	63.1	62.9	g
Mass remaining	51.5	51.2	51.8	51.5	g
Mass percentage pyrolysed	19.2	17.3	17.9	18.1	%
Mass loss	1.5	1.3	1.4	1.4	kg/m ²
Average rate of mass loss	5.7	5.8	5.9	5.8	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.

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 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

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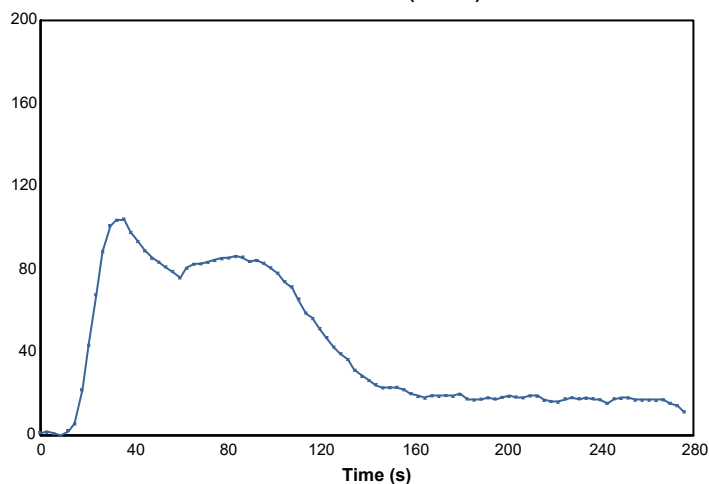
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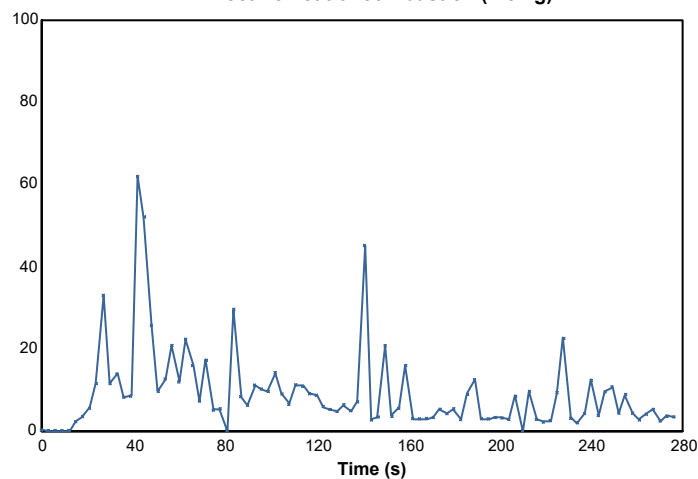
Test Number : 21-003076
Issue Date : 24/06/2021
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Order Number : 45002

Specimen : 1

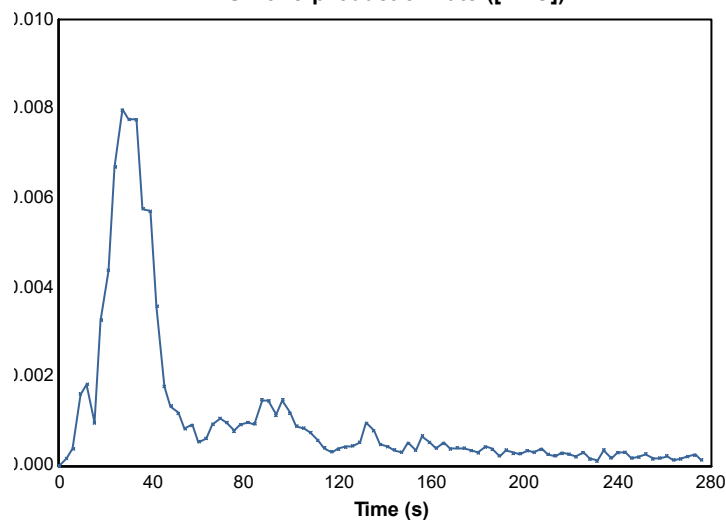
Heat release rate (kW/m²)



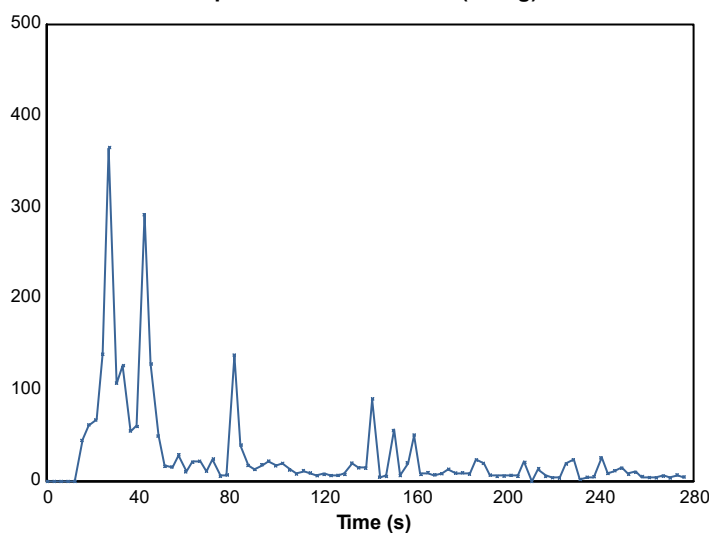
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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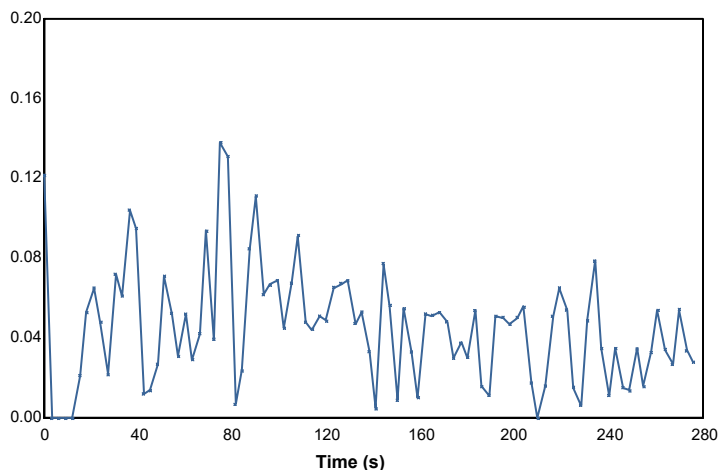
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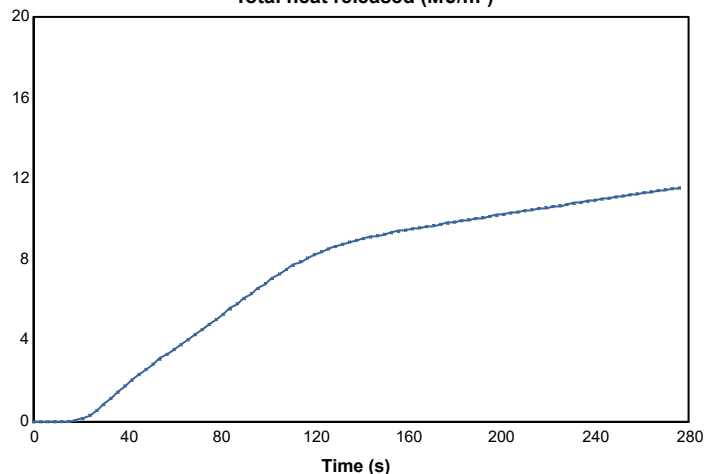
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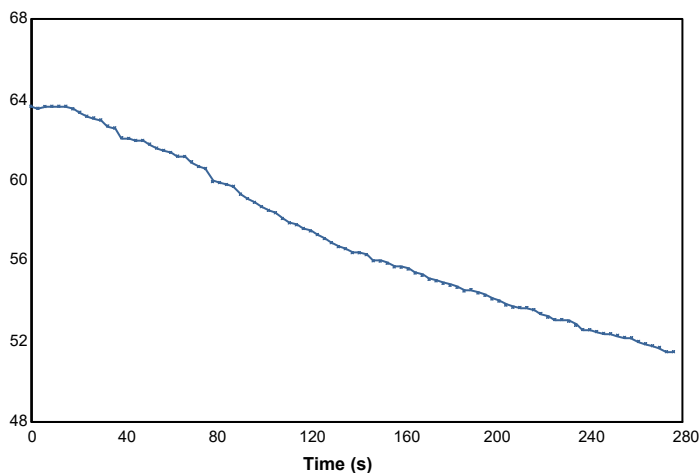
Mass loss rate (g/s)



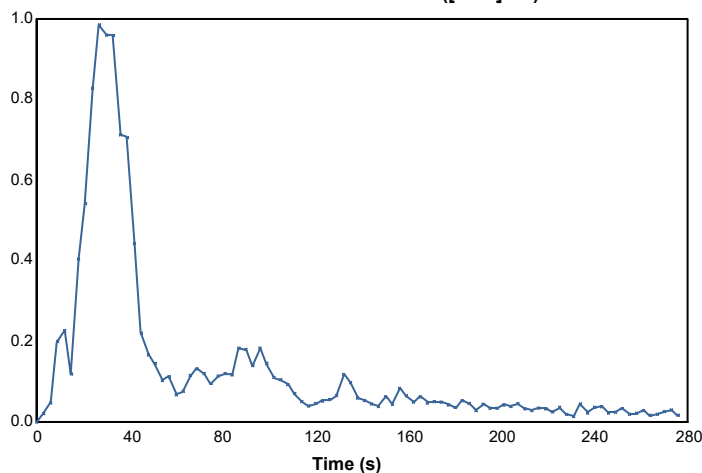
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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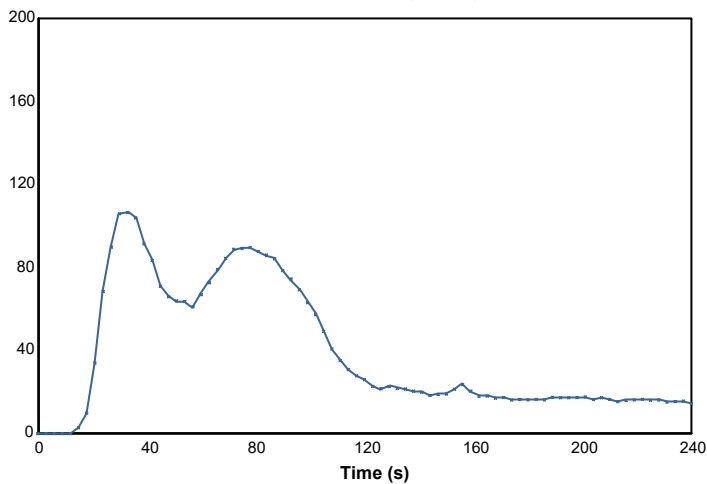
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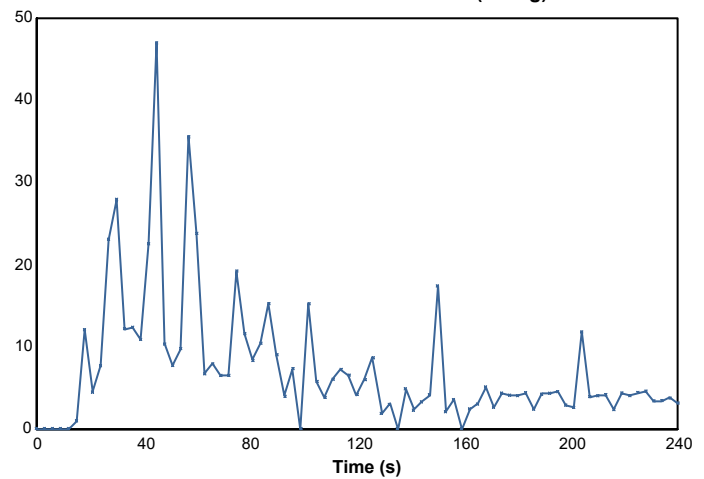
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Issue Date : 24/06/2021
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Order Number : 45002

Specimen : 2

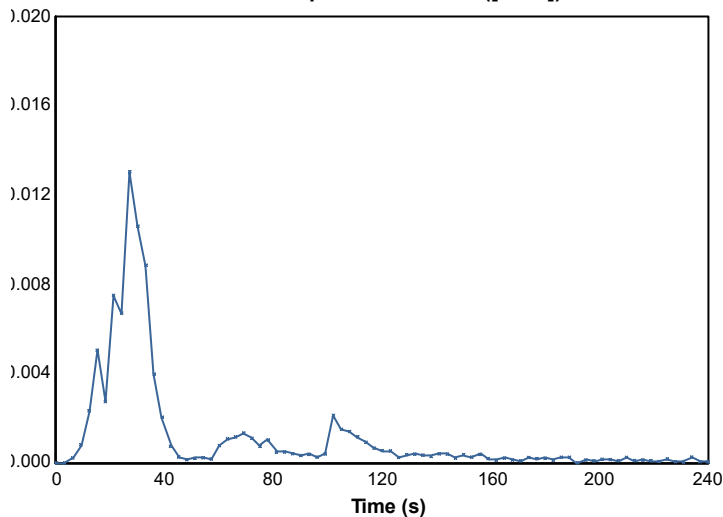
Heat release rate (kW/m²)



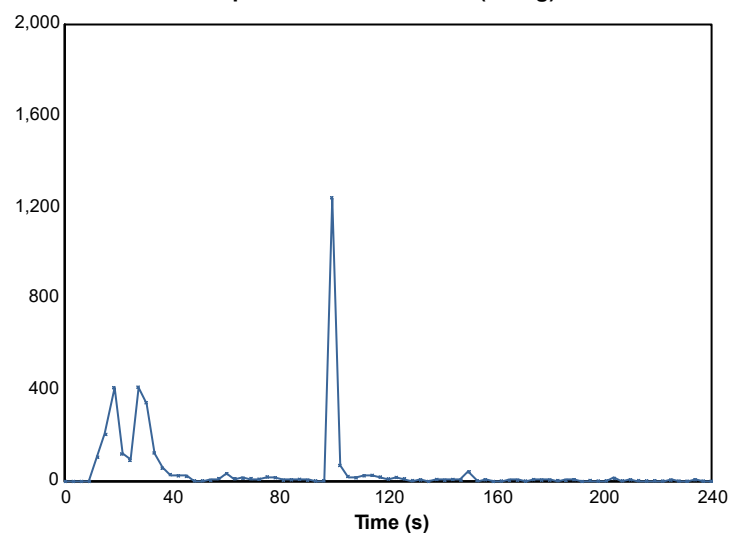
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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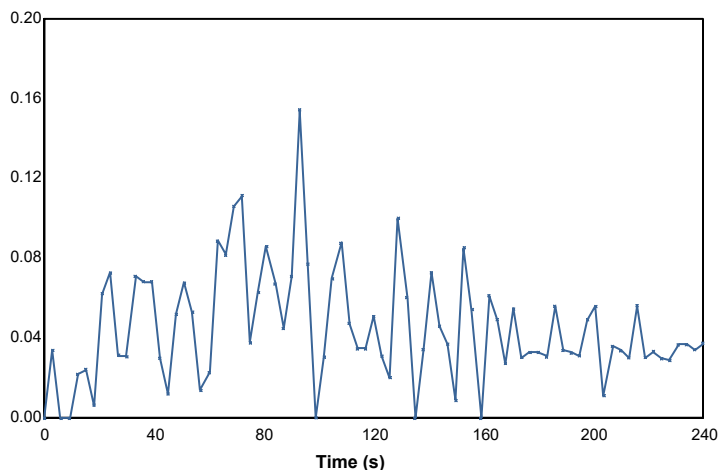
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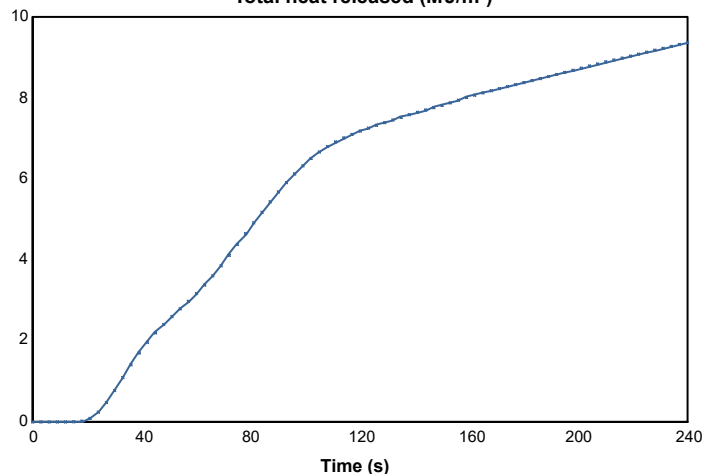
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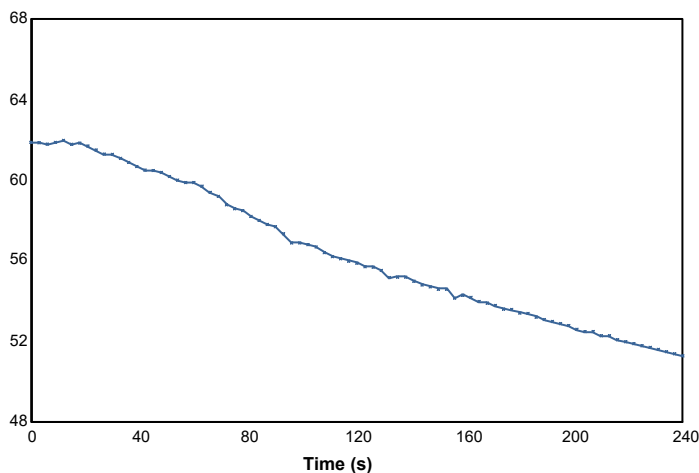
Mass loss rate (g/s)



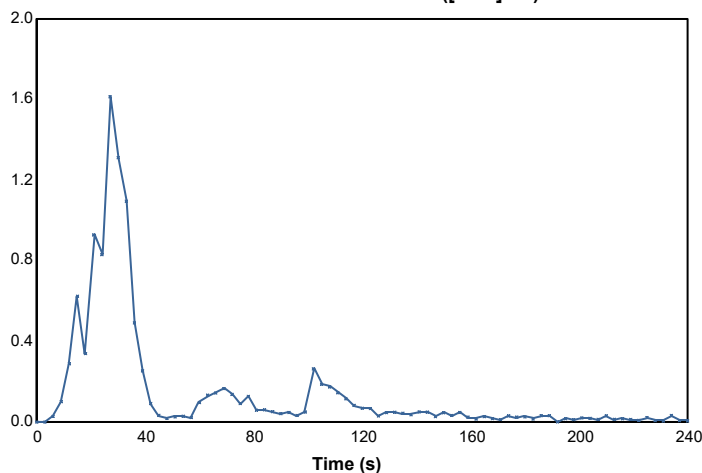
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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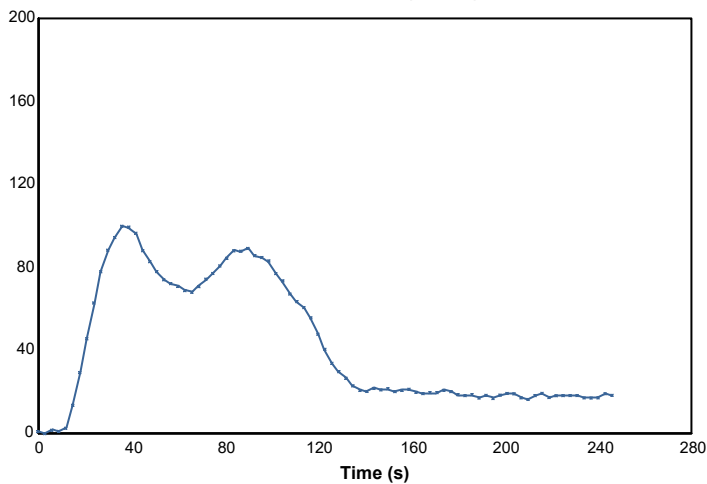
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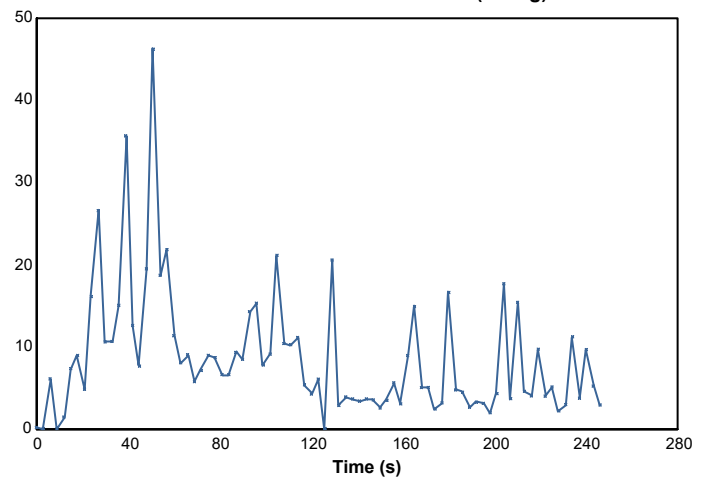
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Order Number : 45002

Specimen : 3

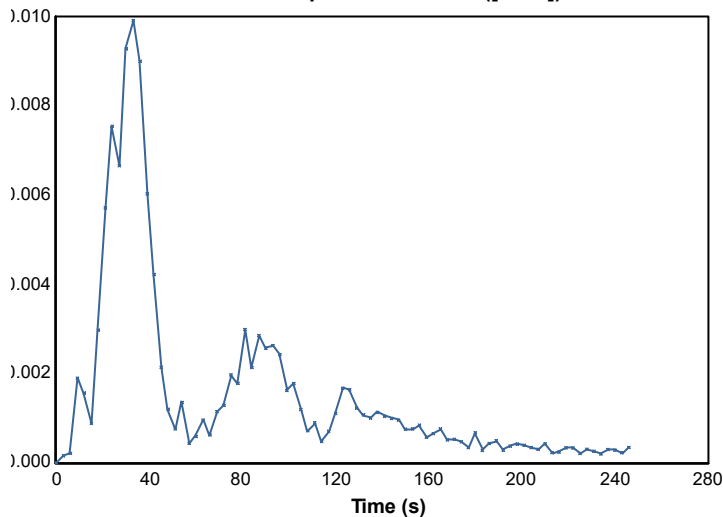
Heat release rate (kW/m²)



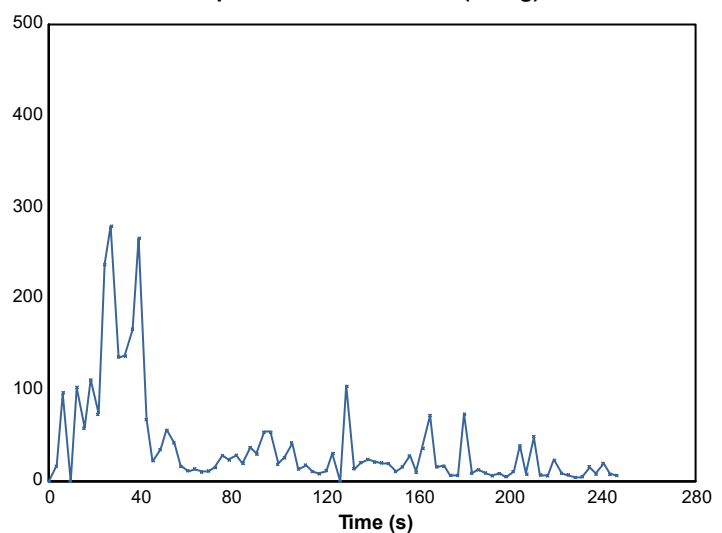
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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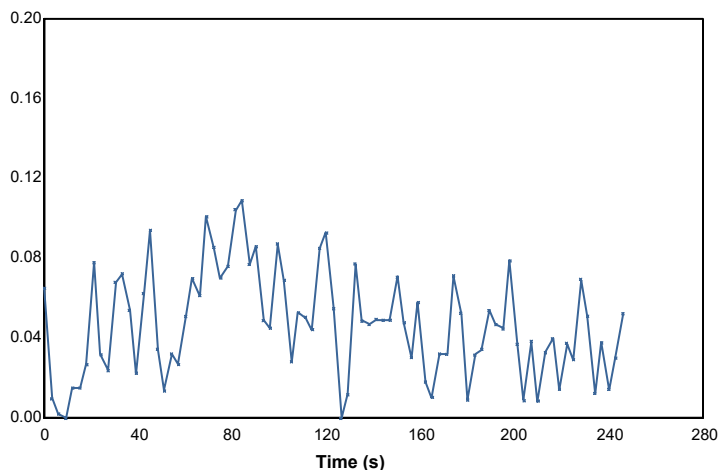
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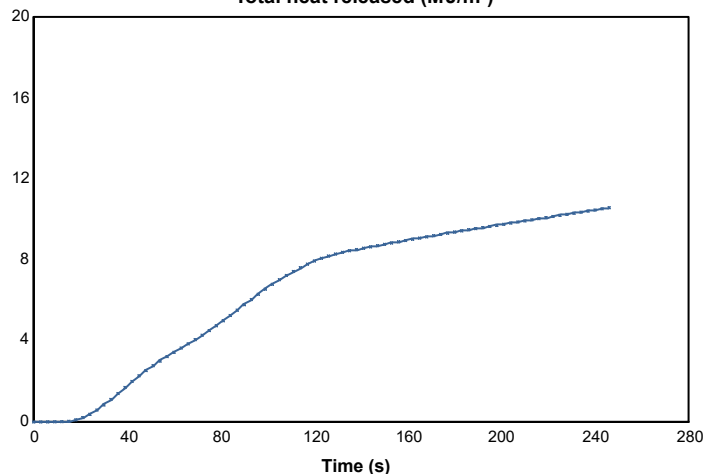
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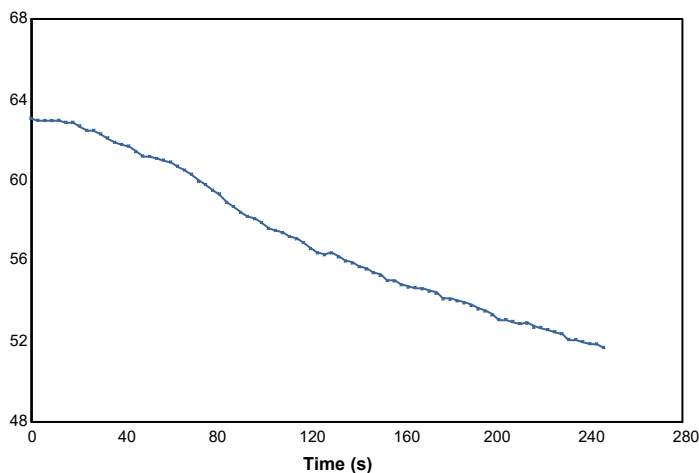
Mass loss rate (g/s)



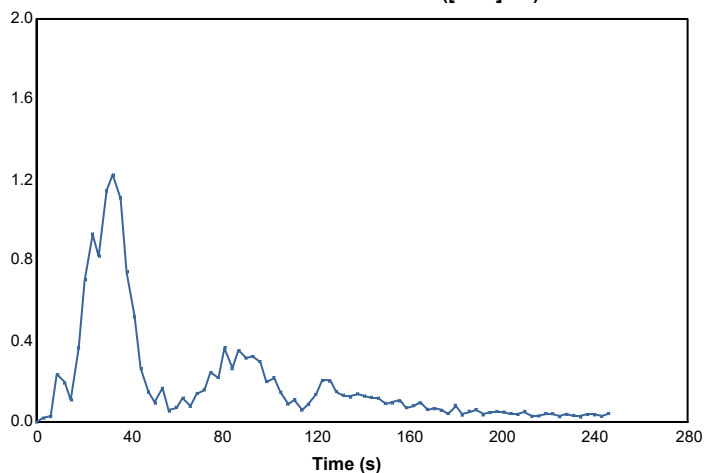
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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