

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

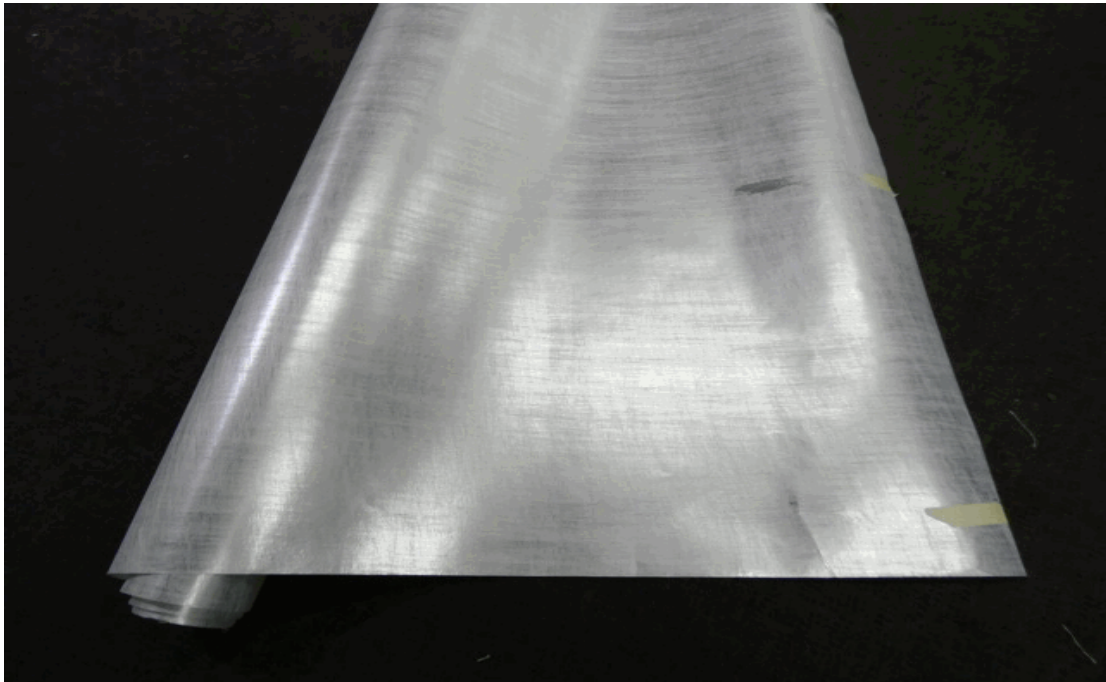
TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 25-002886
Issue Date : 14/08/2025
Print Date : 14/08/2025
Order Number : 03665

Sample Description

Clients Ref : "Brushed Metallic Wall Covering"
Printed Wall paper covering
Colour : Silver
End Use : Wall Covering
Nominal Composition : Thermoplastic Polyolefin on paper base
Nominal Mass per Unit Area/Density : 170gsm
Nominal Thickness : <1mm



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Accreditation Numbers: 983, 985, and 1356



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A handwritten signature in black ink, appearing to read 'Chris Campbell'.

Chris Campbell
APPROVED SIGNATORY

A handwritten signature in black ink, appearing to read 'Michael A. Jackson'.

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

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ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 14-08-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	3.5	3.9	3.8	3.7	kW/m ²
Average Specific extinction area	0.0	0.0	0.0	0.0	m ² /kg

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
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	184	159	171	171	sec
Test duration	1984	1959	1971	1971	sec
Peak heat release after ignition	92.6	92.3	92.7	92.5	kW/m ²
Average heat at 180 s	25.5	25.2	28.9	26.6	kW/m ²
Average heat at 300 s	16.6	16.3	18.1	17.0	kW/m ²
Total heat released	7.6	8.3	8.0	8.0	MJ/m ²
Average effective heat of combustion	4.5	4.7	4.5	4.6	MJ/kg
Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	59.6	59	58.9	59.2	g
Mass at sustained flaming	55.0	54.9	54.8	54.9	g
Mass remaining	47.8	46.9	46.6	47.1	g
Mass loss	1460.1	1496.9	1517.7	1491.6	g/m ²
Average rate of mass loss	0.8	0.8	0.8	0.8	g/m ² .s

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Total smoke Production (Non Flaming phase)	89.5	87.8	48.7	75.3	m ² /m ²
Total smoke Production (Flaming phase)	95.9	74.6	54.2	74.9	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	185.4	162.4	102.9	150.2	m ² /m ²
C-Factor (Calibration Constant)	0.041832	0.041832	0.041832	-	
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

Retainer grid was used to contain the test specimen within the sample holder

Note: All calculations are based on ignition + 30 minutes.

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.

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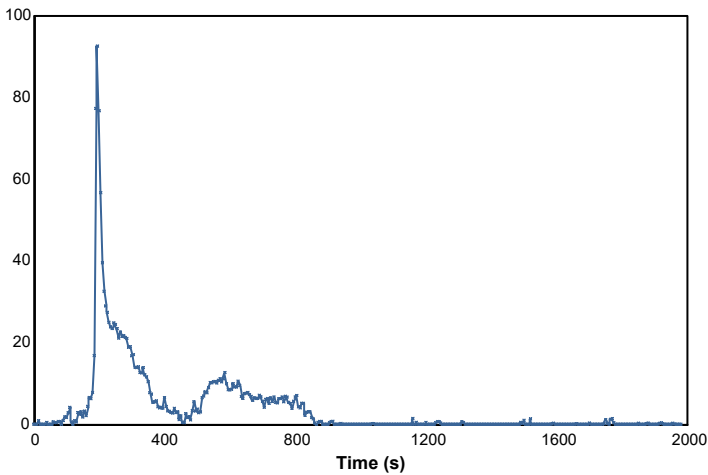
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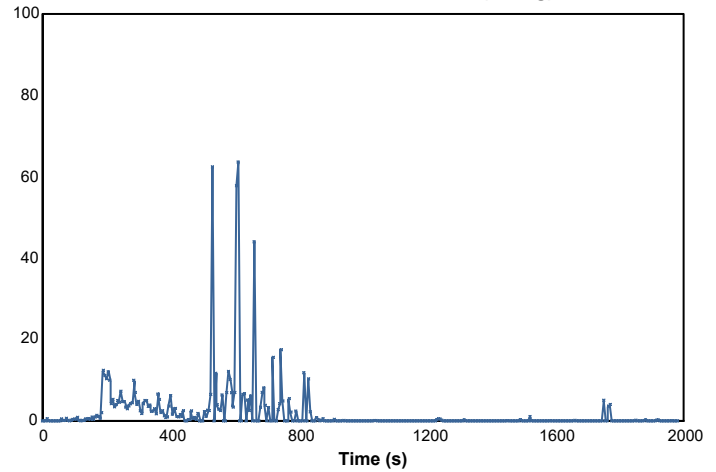
Test Number : 25-002886
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Specimen : 1

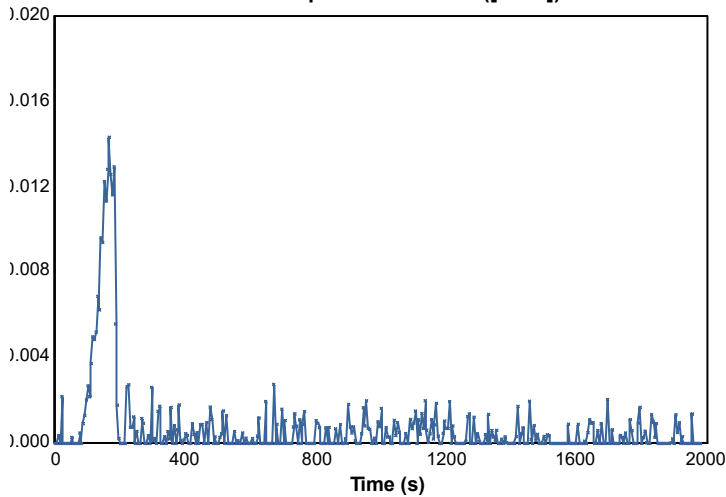
Heat release rate (kW/m²)



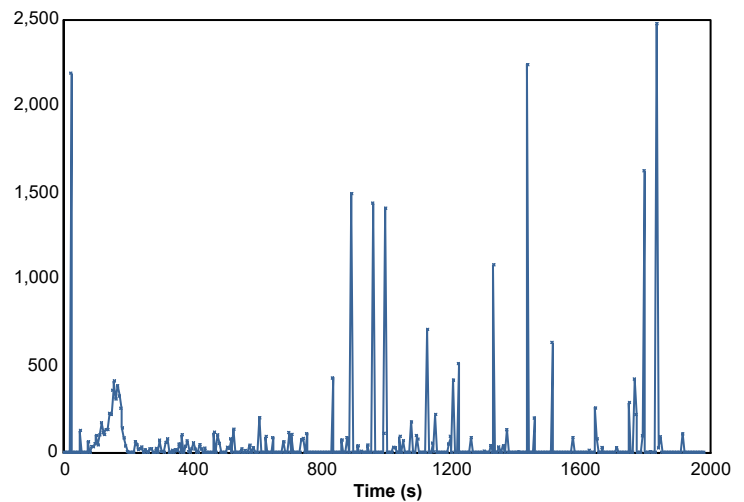
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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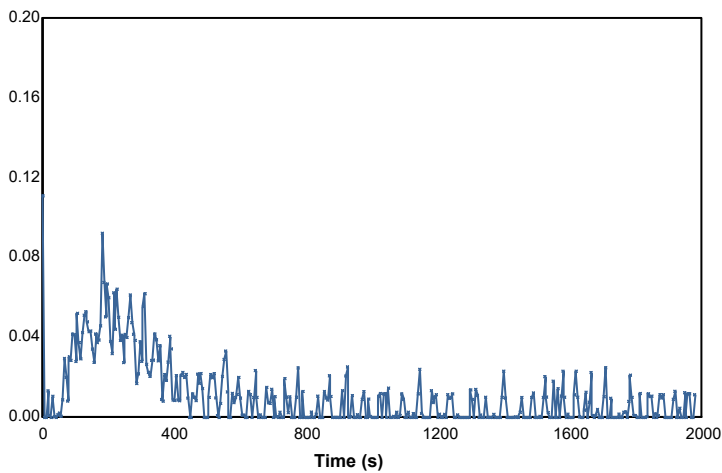
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TEST REPORT

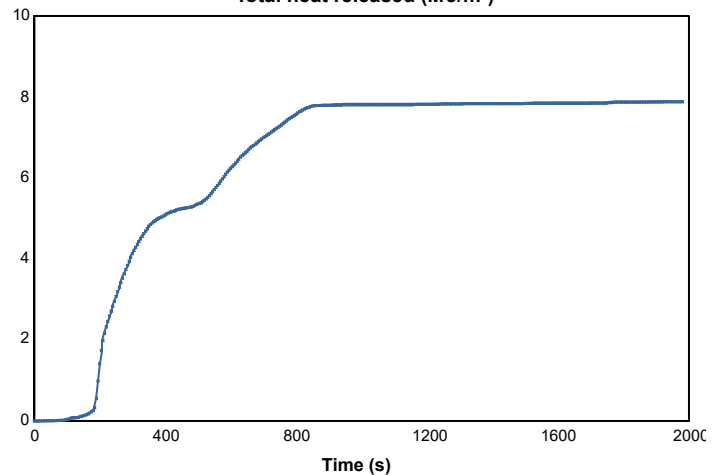
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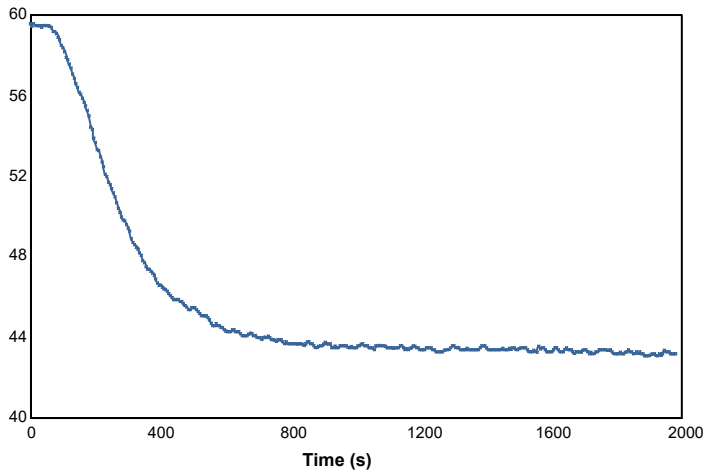
Mass loss rate (g/s)



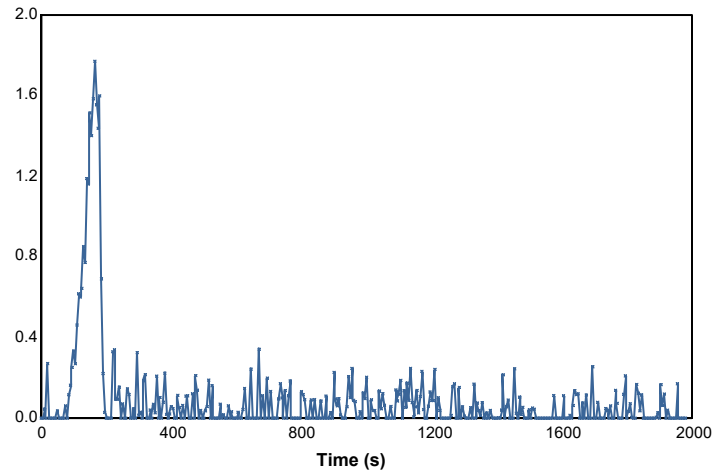
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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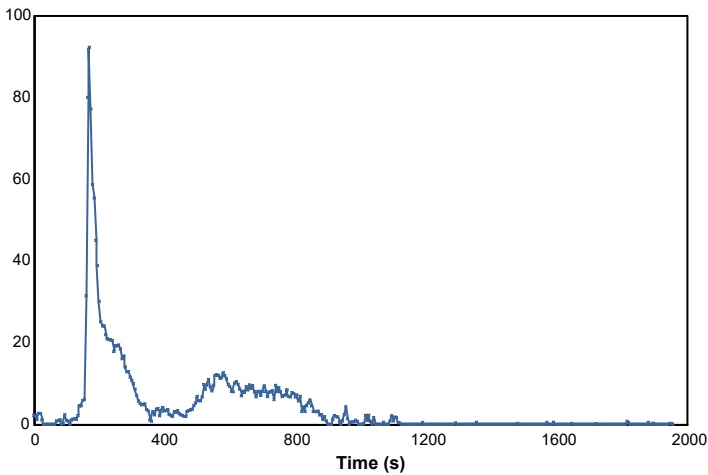
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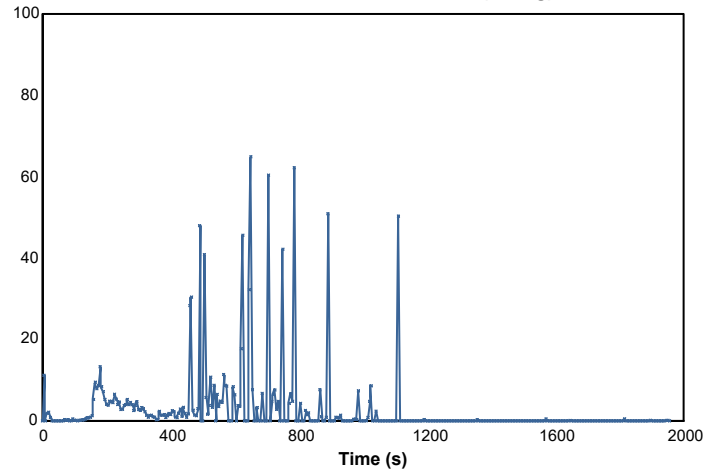
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Specimen : 2

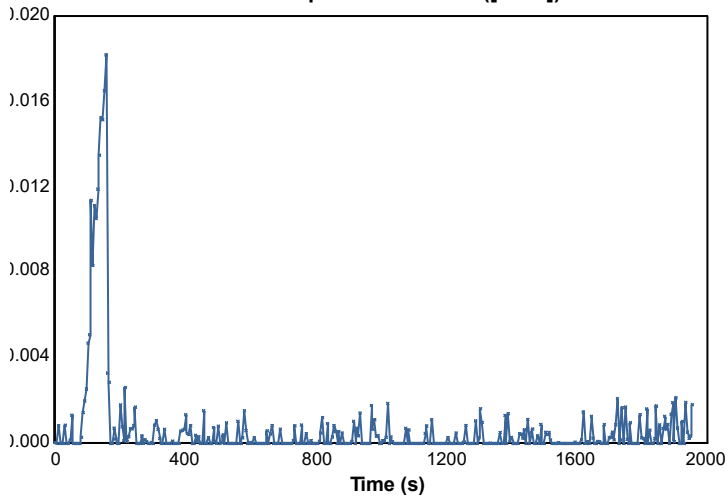
Heat release rate (kW/m²)



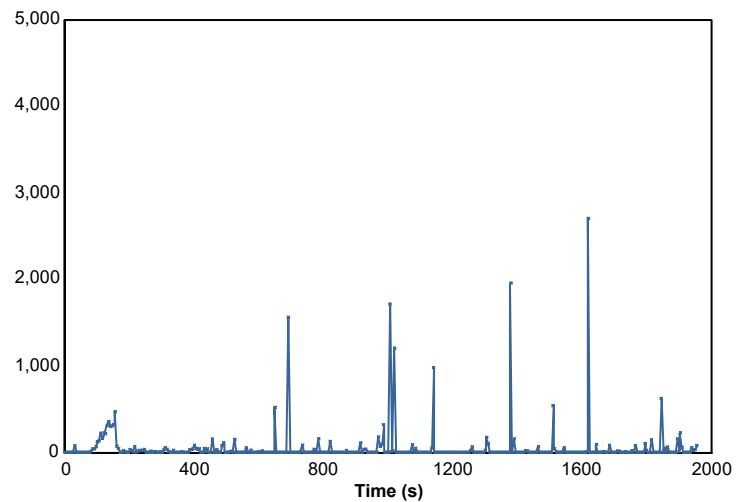
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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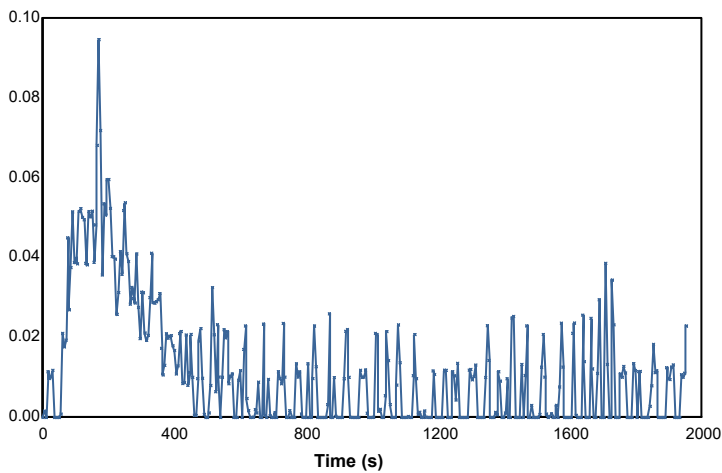
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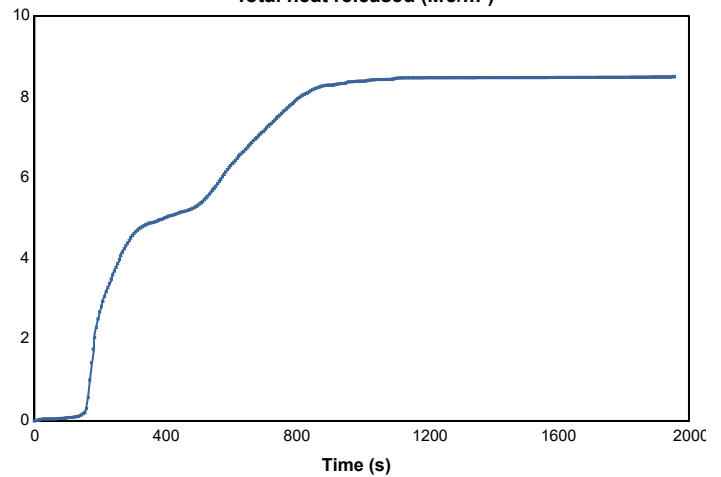
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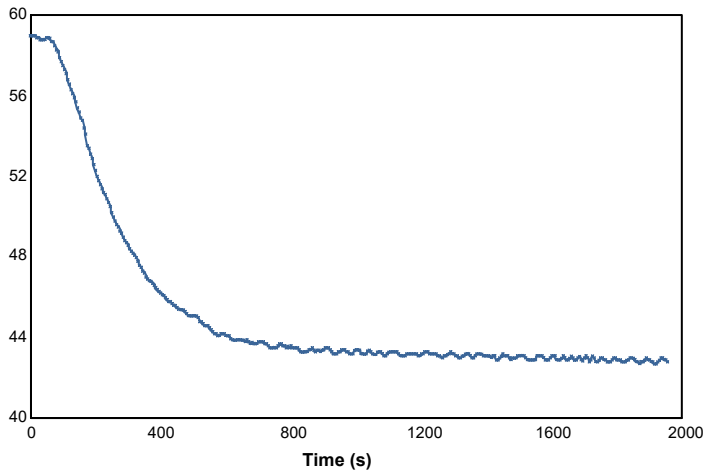
Mass loss rate (g/s)



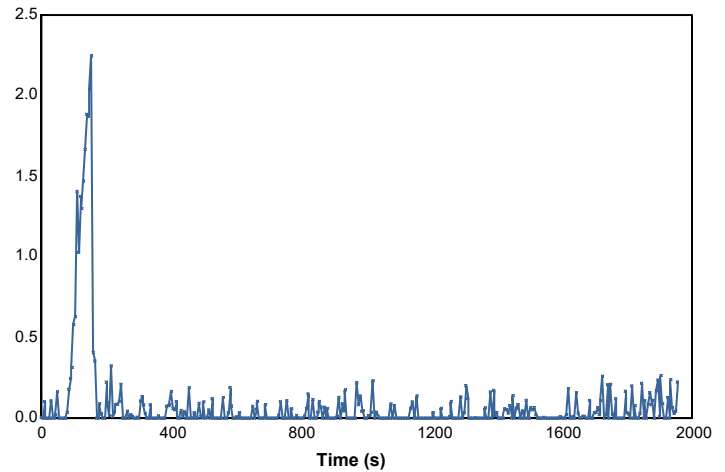
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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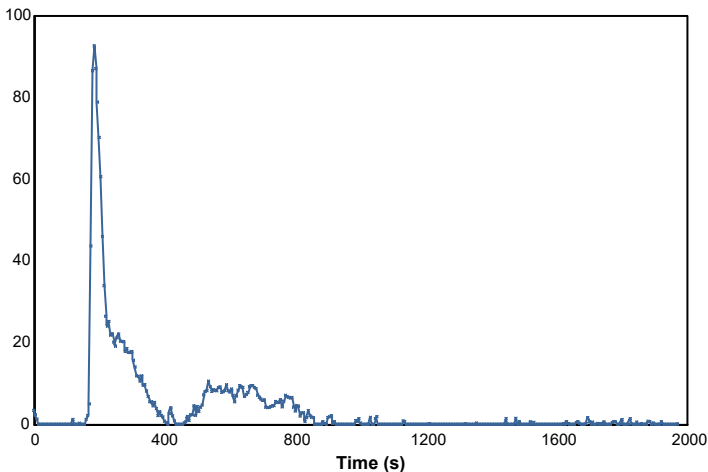
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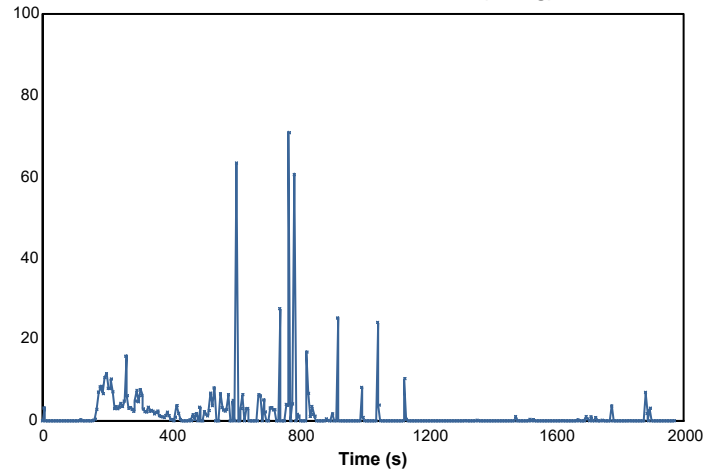
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Specimen : 3

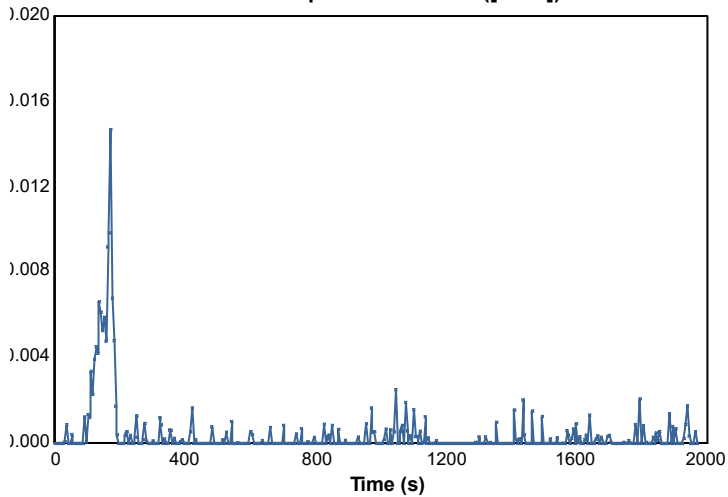
Heat release rate (kW/m²)



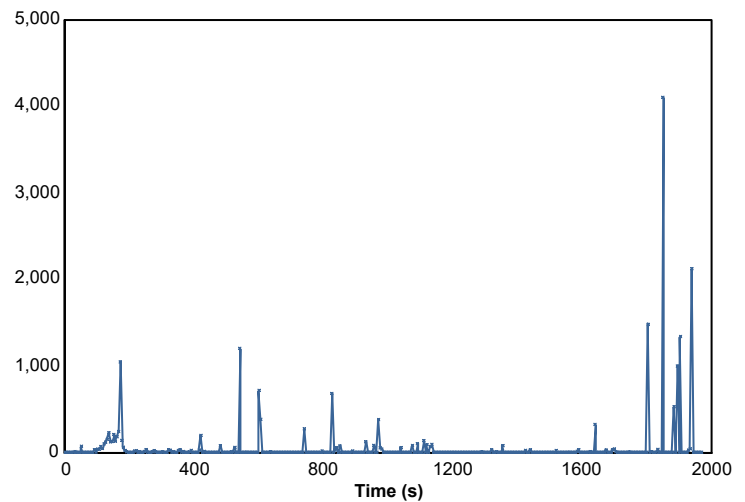
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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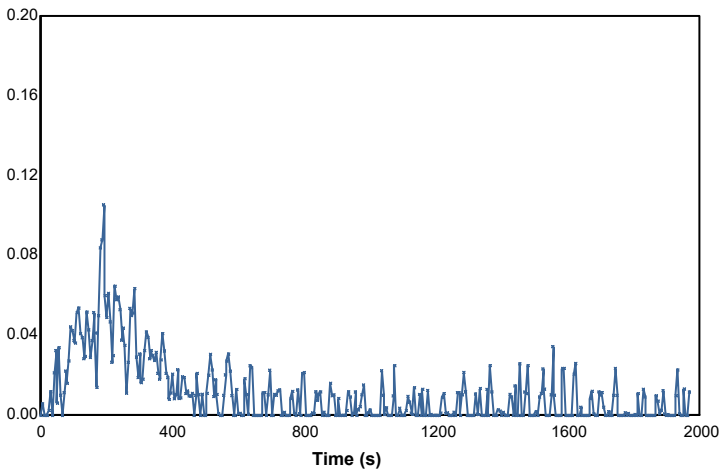
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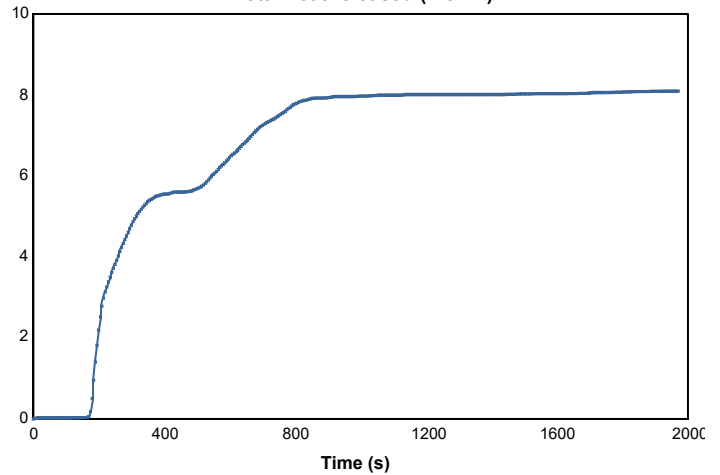
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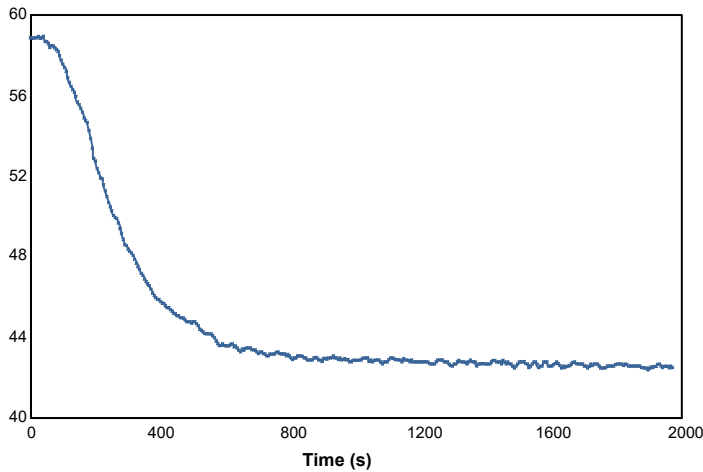
Mass loss rate (g/s)



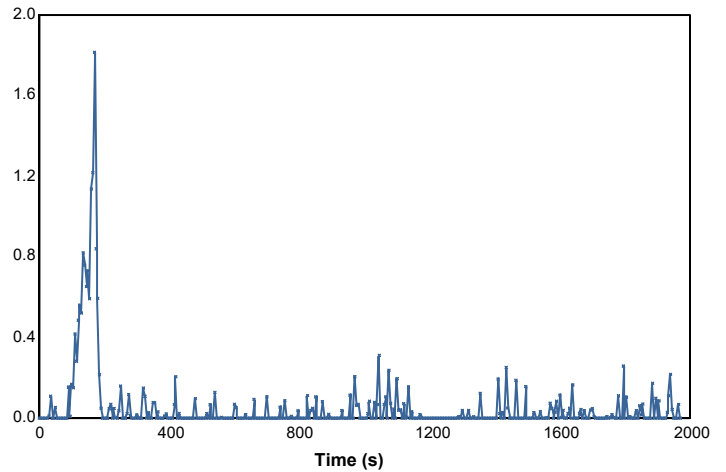
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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