

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 : Composite Materials Engineering Pty Ltd
1/37 Hosie Street
Bayswater VIC 3153

Test Number : 20-000130
Issue Date : 02/03/2020
Print Date : 12/03/2020

Sample Description Clients Ref : "Painted Polymer Panel"
Rigid Panel
Colour : Clear with white backcoating
End Use : Splashbacks and decorative Wall Panels
Nominal Composition : Methyl Methacrylate, Acrylic based paint rear coating
Nominal Mass per Unit Area/Density : 7.14kg/m³
Nominal Thickness : 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 02/03/2020
Operator AWTA Test Operator 7
Face Tested Clear face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	233.7	229.6	213.4	225.6	kW/m ²
Average Specific extinction area	90.4	90.8	85.0	88.7	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	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	33	36	35	35	sec
Test duration	912	959	1070	980	sec
Peak heat release after ignition	688.8	670.9	720.8	693.5	kW/m ²
Average heat at 60 s	346.4	377.0	370.5	364.6	kW/m ²

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APPROVED SIGNATORY

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

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Average heat at 180 s	514.6	517.8	528.5	520.3	kW/m ²
Average heat at 300 s	564.9	565.0	587.4	572.4	kW/m ²
Total heat released	205.7	211.5	220.8	212.7	MJ/m ²
Average effective heat of combustion	20.7	21.0	21.7	21.1	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	126.5	127.2	127.1	126.9	g
Mass at sustained flaming	126.3	127.1	126.9	126.8	g
Mass remaining	46.1	45.4	44.7	45.4	g
Mass percentage pyrolysed	63.6	64.3	64.8	64.2	%
Mass loss	9.9	10.1	10.2	10.1	kg/m ²
Average rate of mass loss	11.3	10.9	9.8	10.7	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 adhered to a substrate of 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive 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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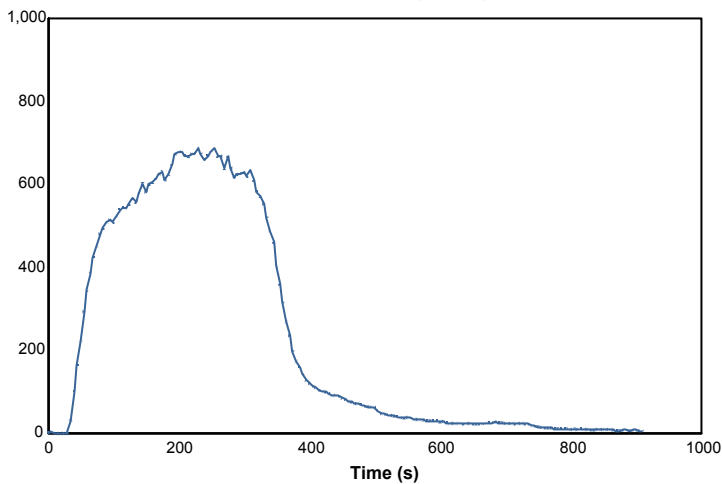
TEST REPORT

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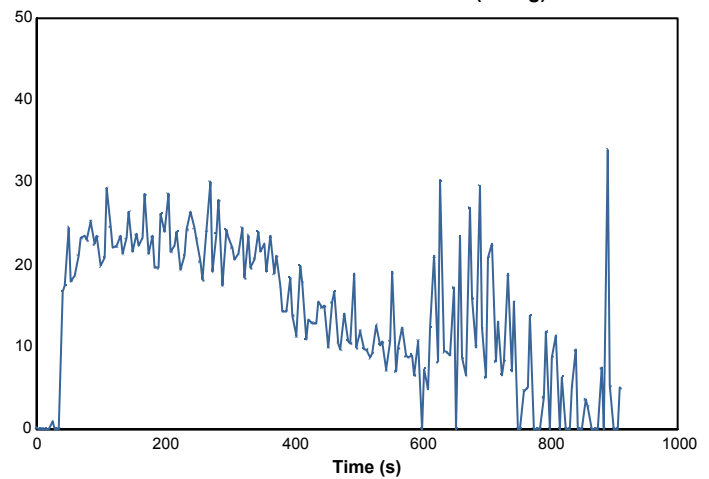
Test Number : 20-000130
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Specimen : 1

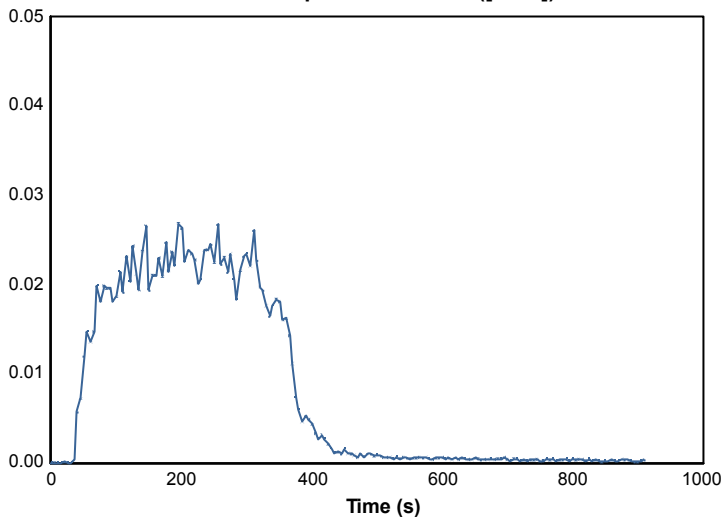
Heat release rate (kW/m²)



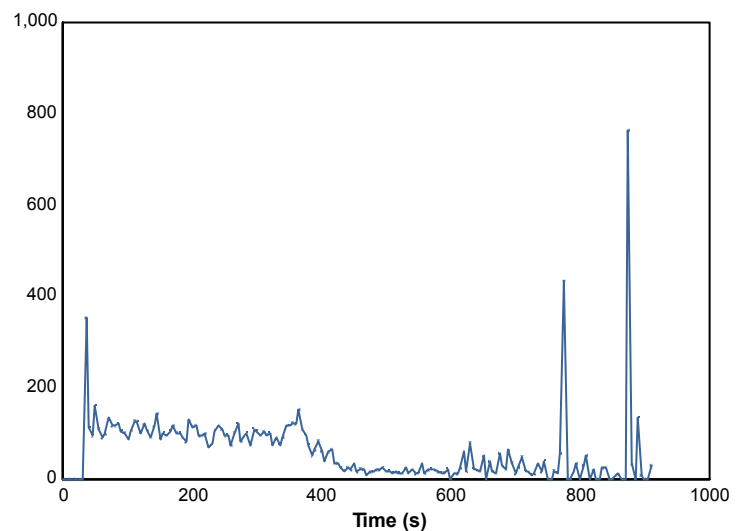
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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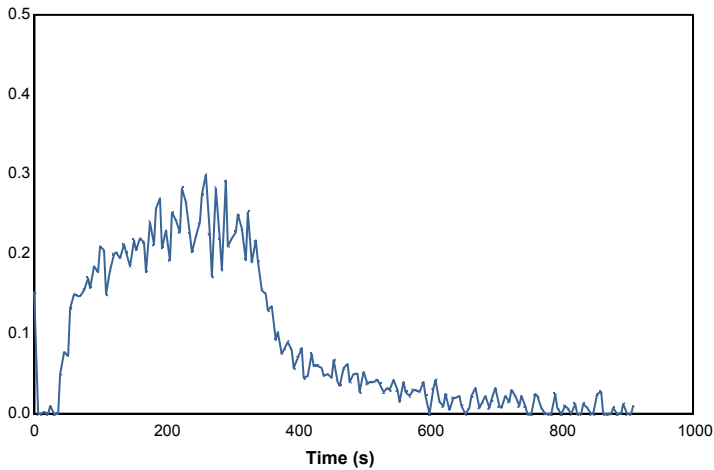
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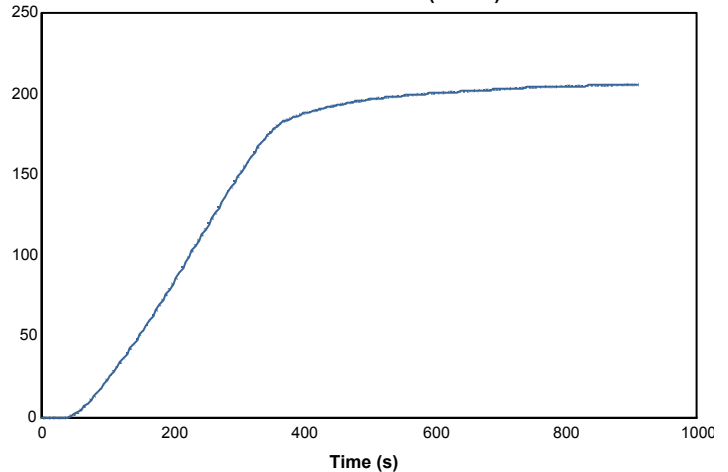
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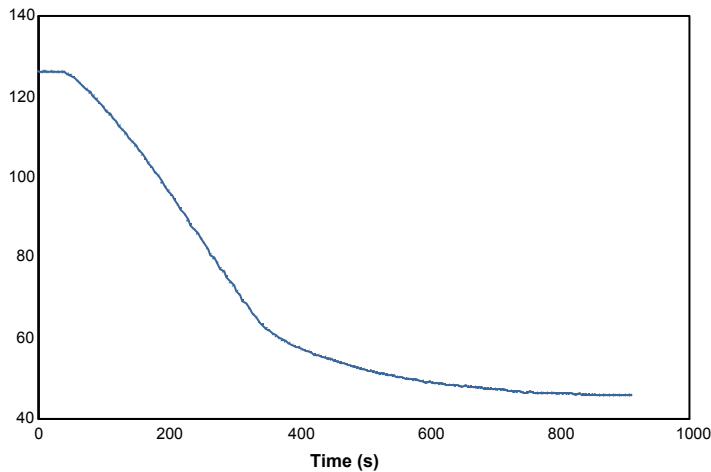
Mass loss rate (g/s)



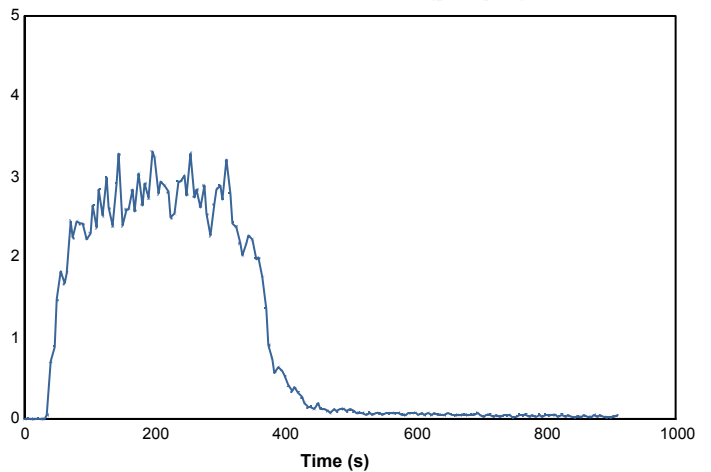
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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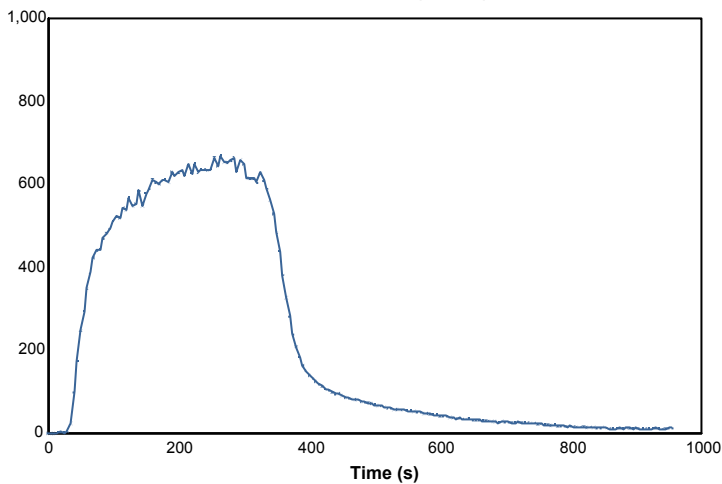
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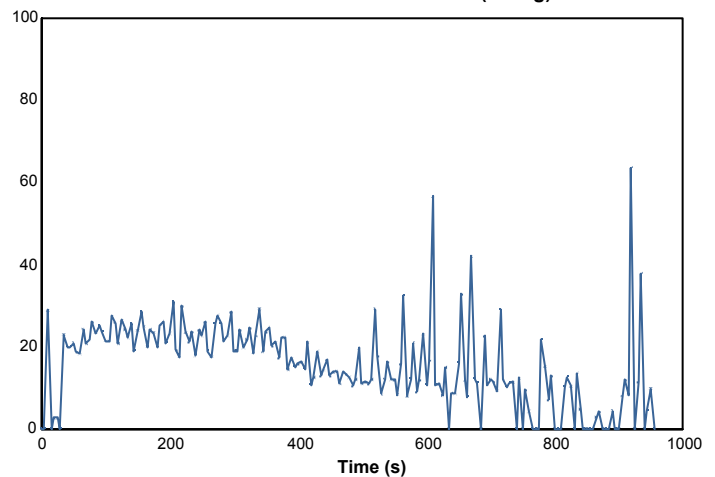
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Specimen : 2

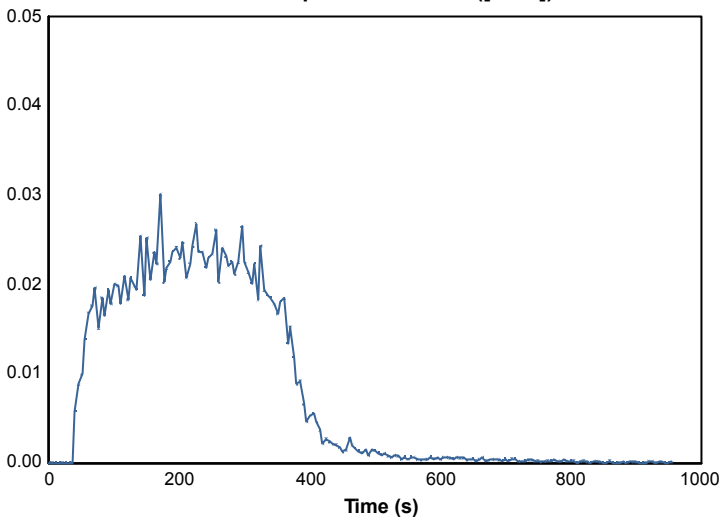
Heat release rate (kW/m²)



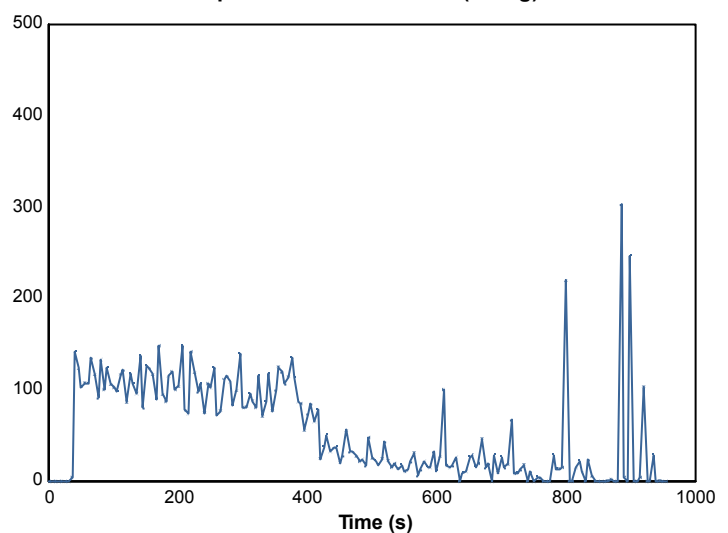
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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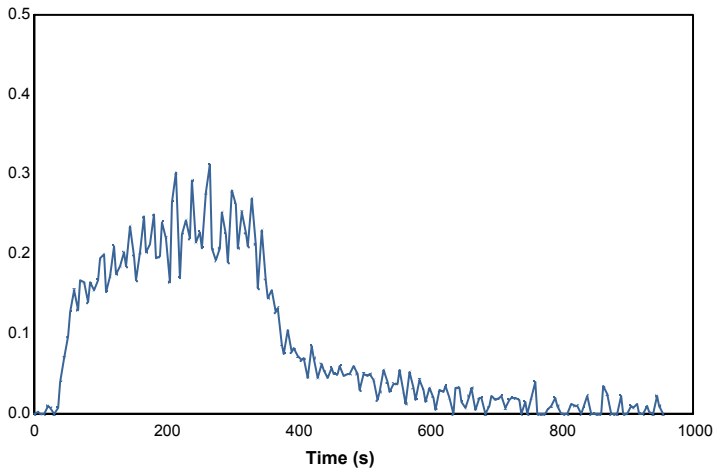
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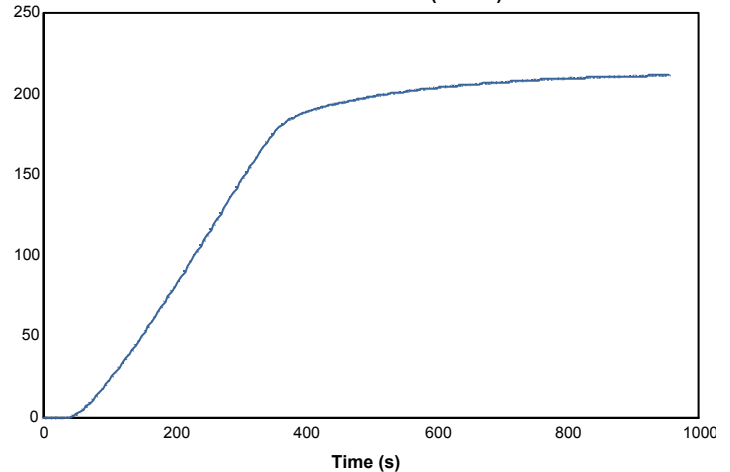
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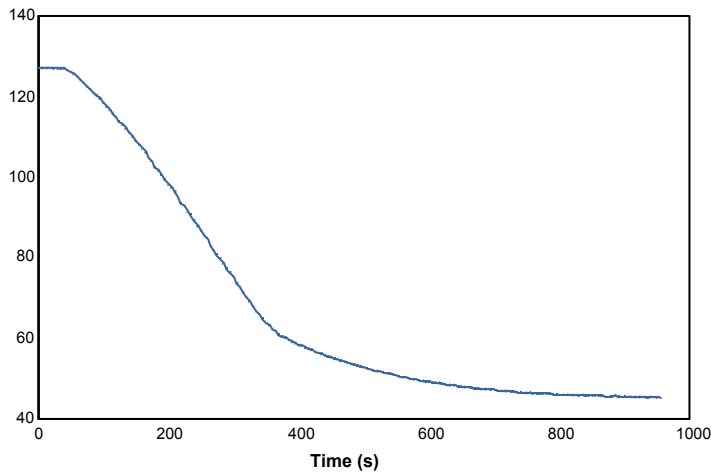
Mass loss rate (g/s)



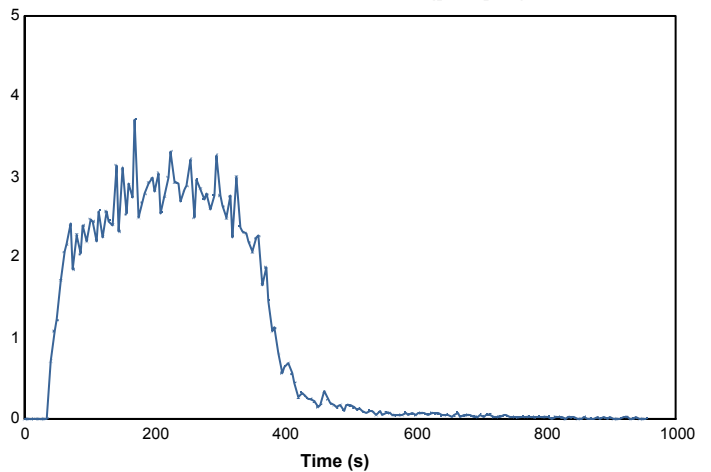
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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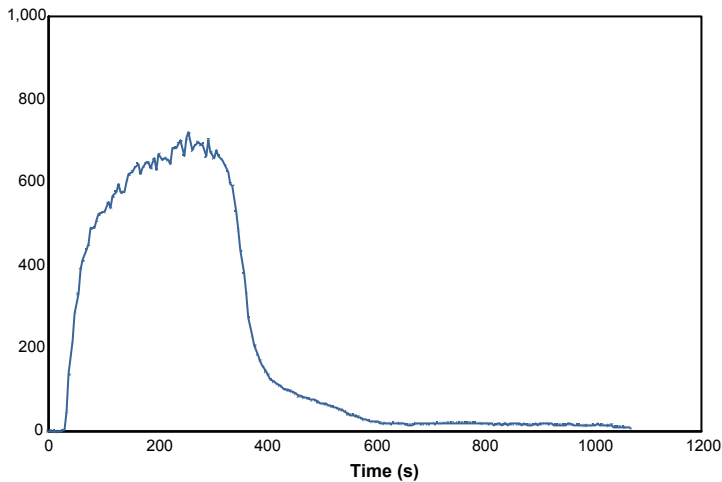
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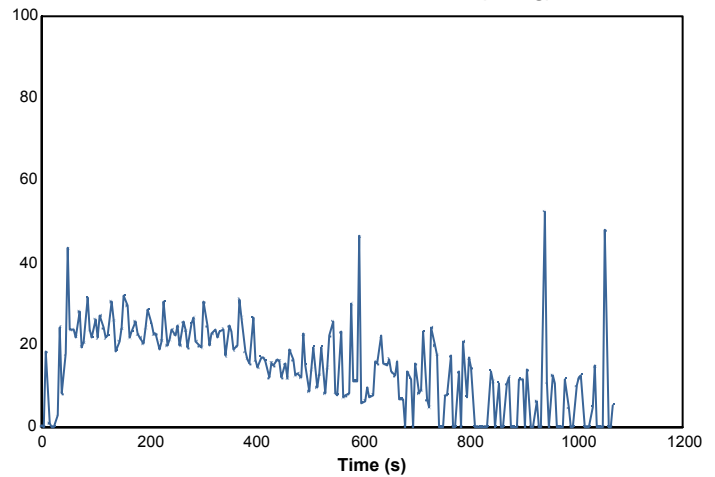
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Specimen : 3

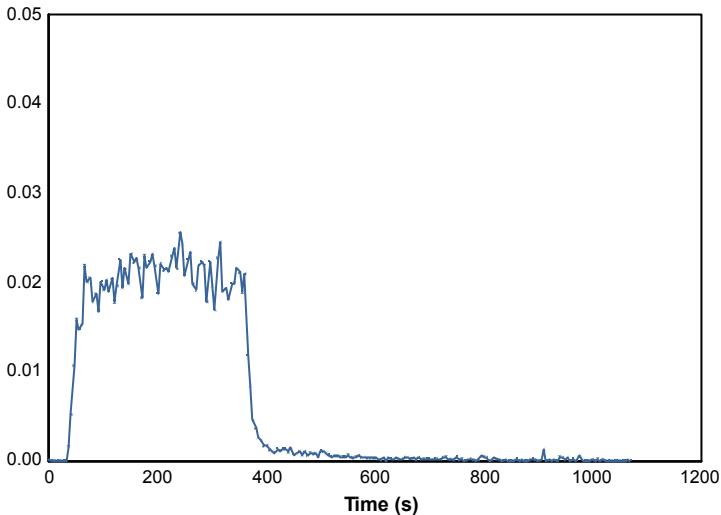
Heat release rate (kW/m²)



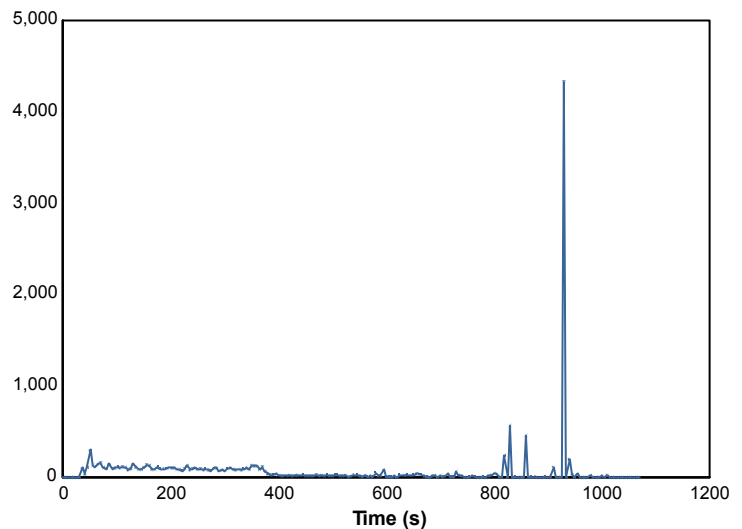
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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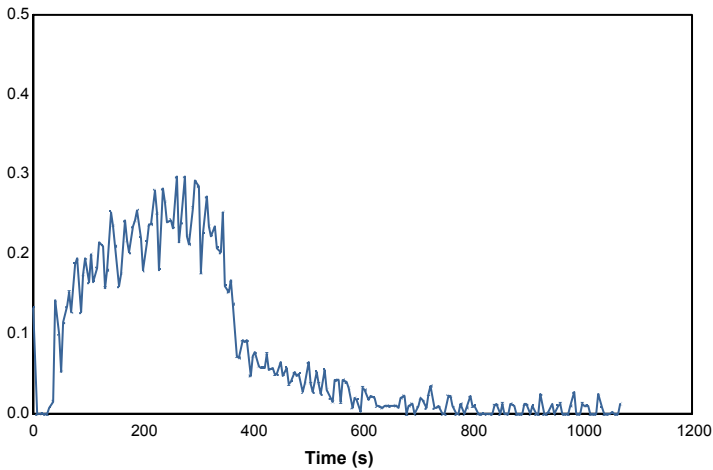
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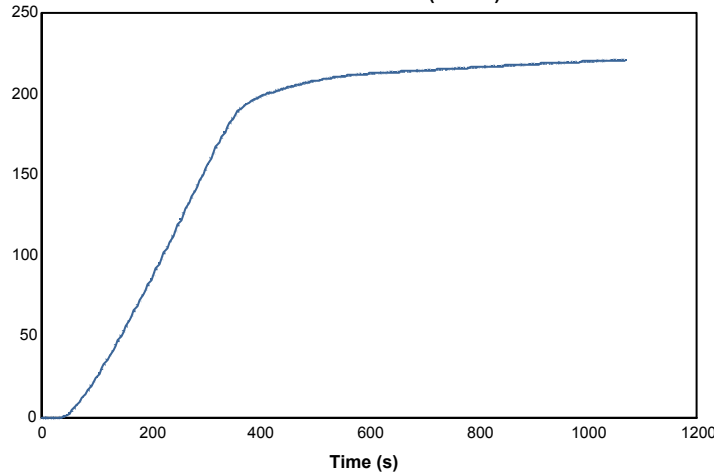
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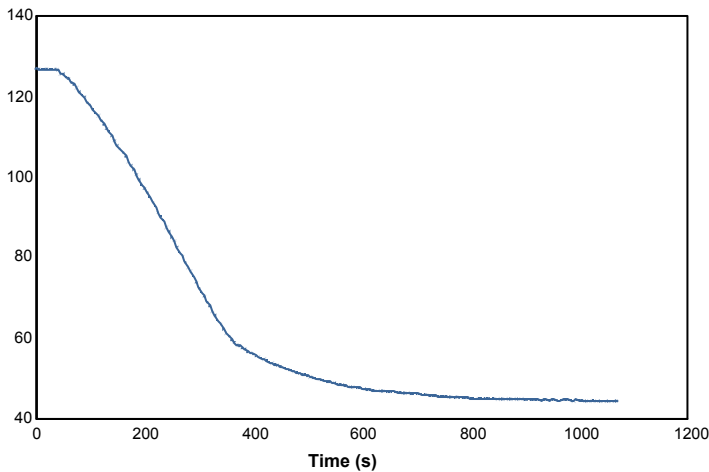
Mass loss rate (g/s)



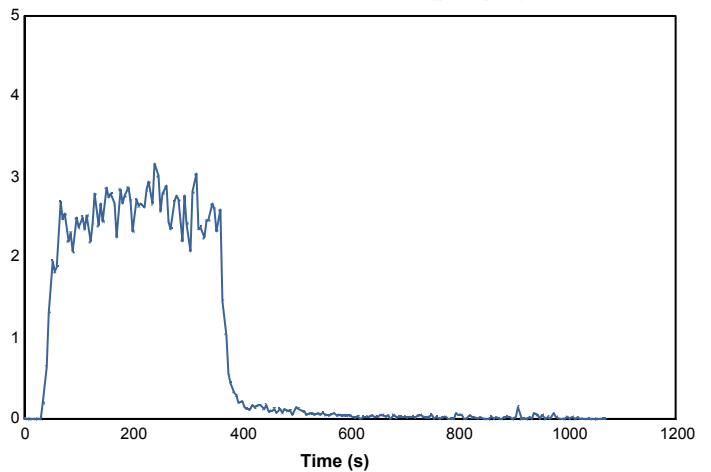
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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