

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

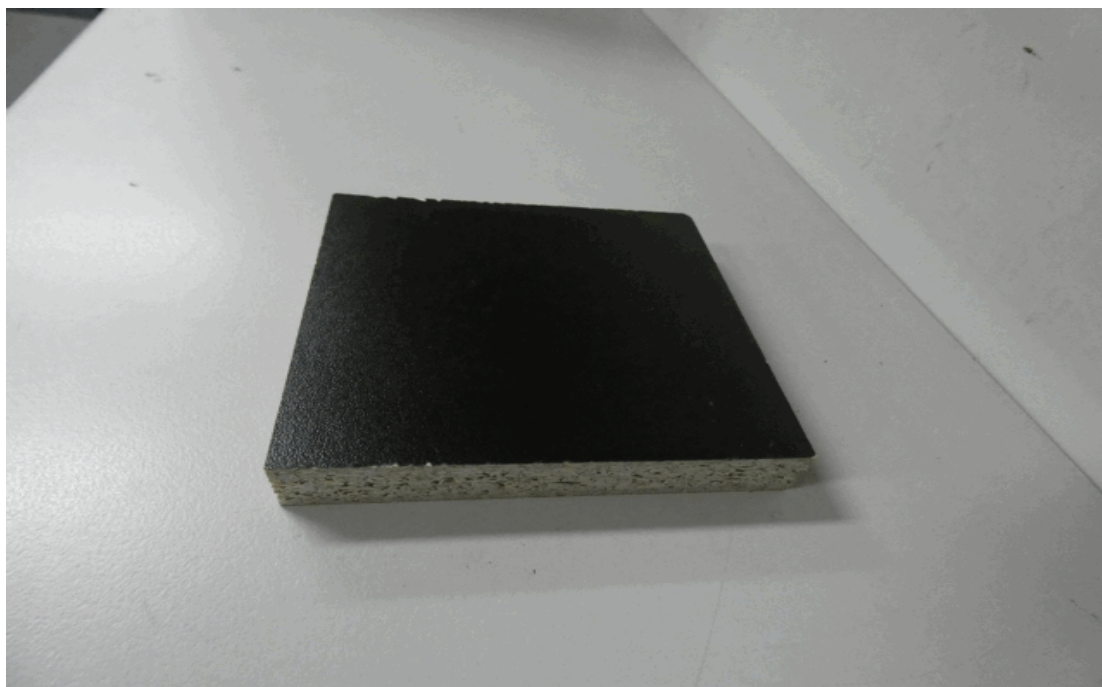
TEST REPORT

Client : Forest One
601 Victoria Street
Abbotsford VIC 3067

Test Number : 25-001152
Issue Date : 15/04/2025
Print Date : 15/04/2025

Sample Description

Clients Ref : "Designer One Melamine Board"
Rigid Panel
Colour : Black
End Use : Panels, Wall Linings
Nominal Composition : Particleboard substrate with decorative paper top and bottom
Nominal Mass per Unit Area/Density : >600kg/m3
Nominal Thickness : 16mm



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Chris Campbell

APPROVED SIGNATORY



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

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AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 15-04-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	48.8	67.5	90.1	68.8	kW/m ²
Average Specific extinction area	46.9	70.6	23.4	47.0	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	63	60	62	62	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	193.0	183.1	207.7	194.6	kW/m ²
Average heat at 60 s	169.6	144.3	177.0	163.6	kW/m ²
Average heat at 180 s	158.8	157.7	168.8	161.8	kW/m ²
Average heat at 300 s	141.4	151.9	149.9	147.7	kW/m ²
Total heat released	172.5	238.9	318.6	243.3	MJ/m ²
Average effective heat of combustion	16.1	19.2	29.2	21.5	MJ/kg
Initial thickness	16	16	16	16.0	mm
Initial mass	94.5	110.9	97	100.8	g
Mass remaining	7.0	9.9	8.1	8.4	g
Mass percentage pyrolysed	92.6	91.1	91.6	91.8	%

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Mass loss	10.8	12.5	11.0	11.4	kg/m ²
Average rate of mass loss	3.0	3.5	3.1	3.2	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Tests were conducted with a wire grid placed over the sample during testing.
This was done to contain intumescing sample within the sample holder.

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.

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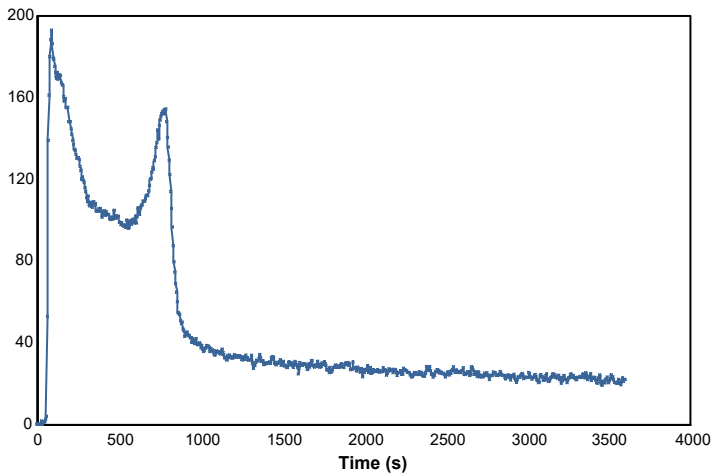
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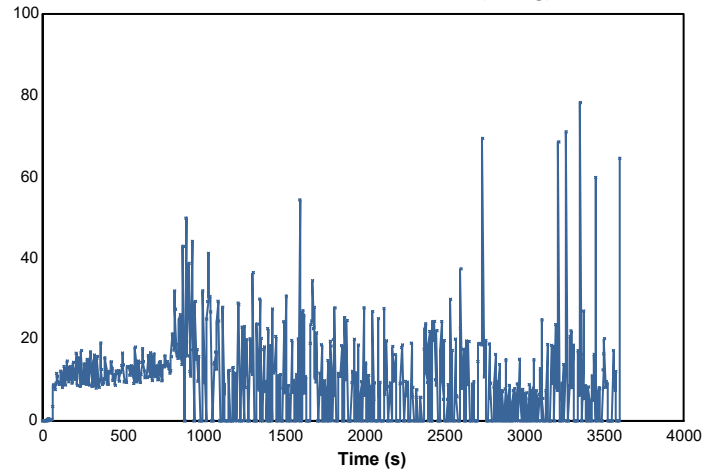
Test Number : 25-001152
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Specimen : 1

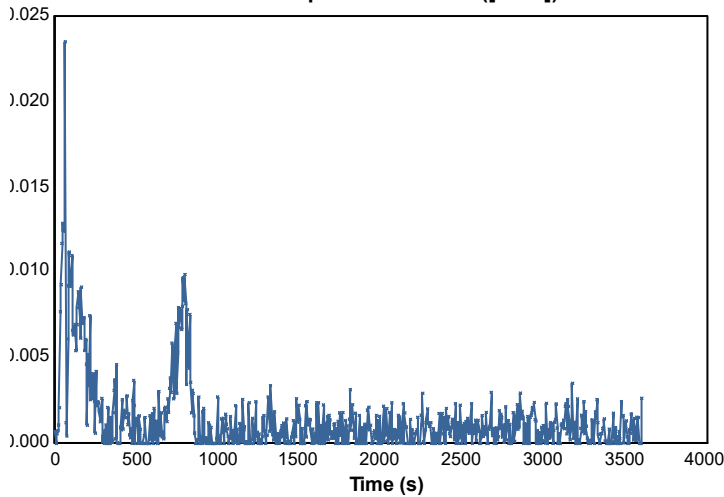
Heat release rate (kW/m²)



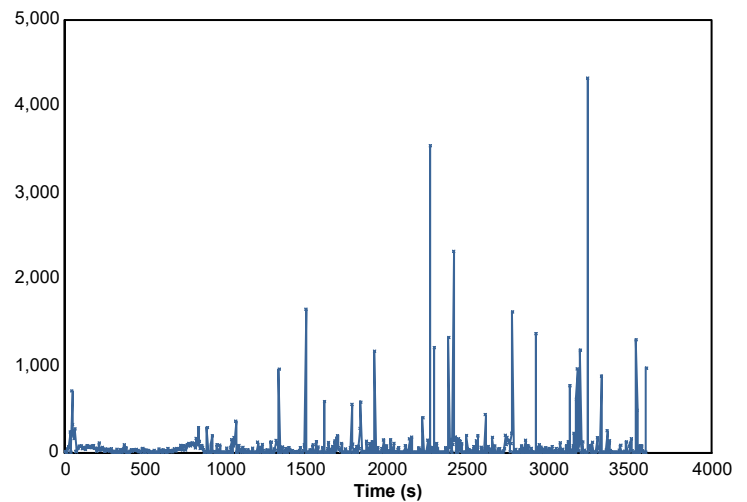
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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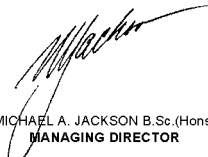
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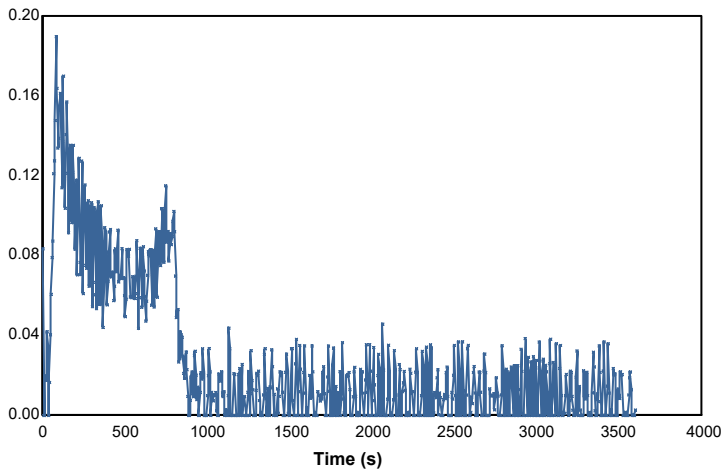
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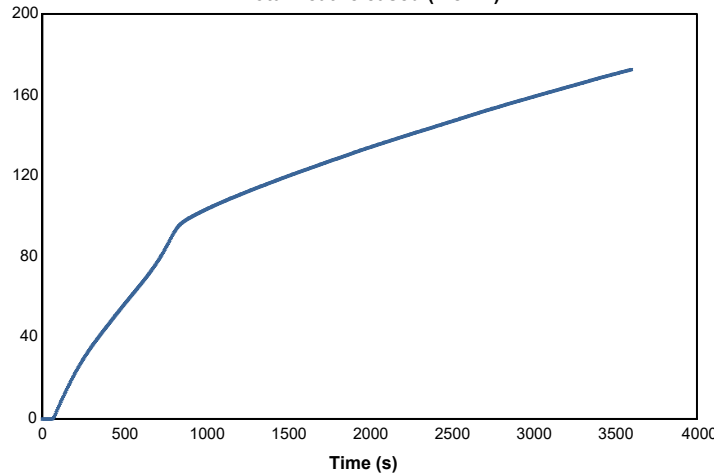
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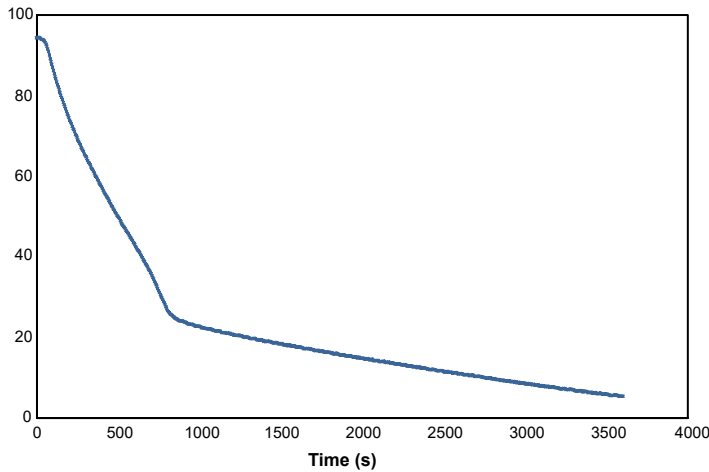
Mass loss rate (g/s)



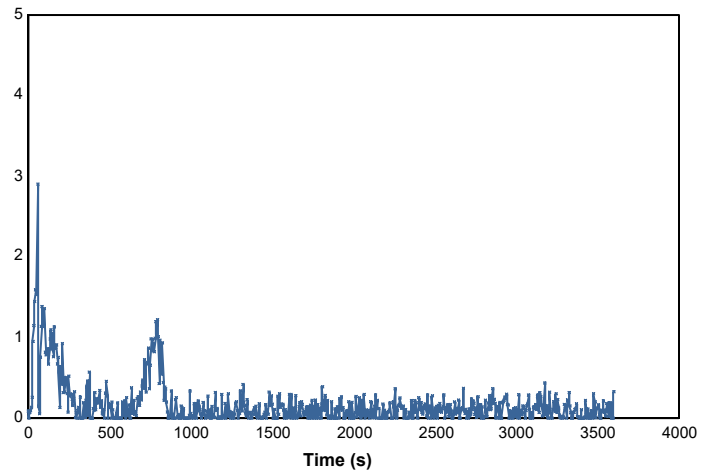
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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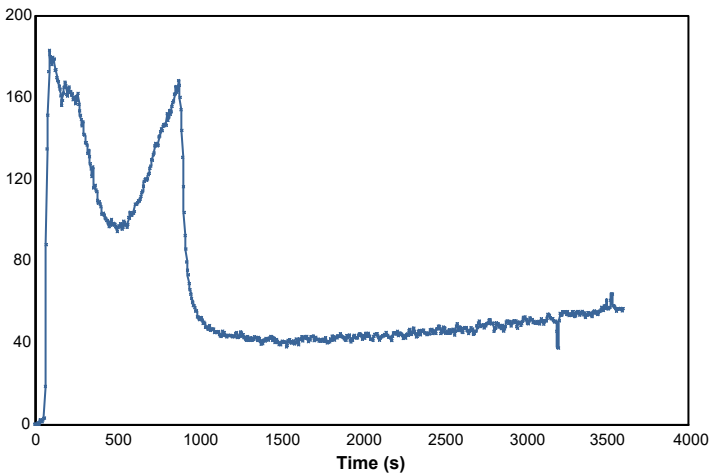
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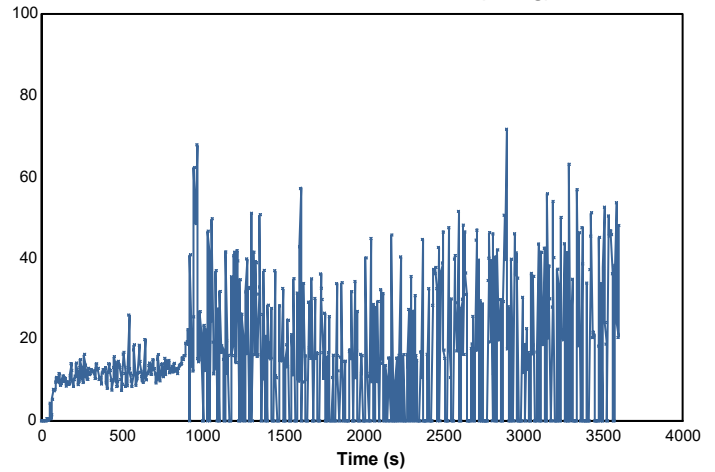
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Specimen : 2

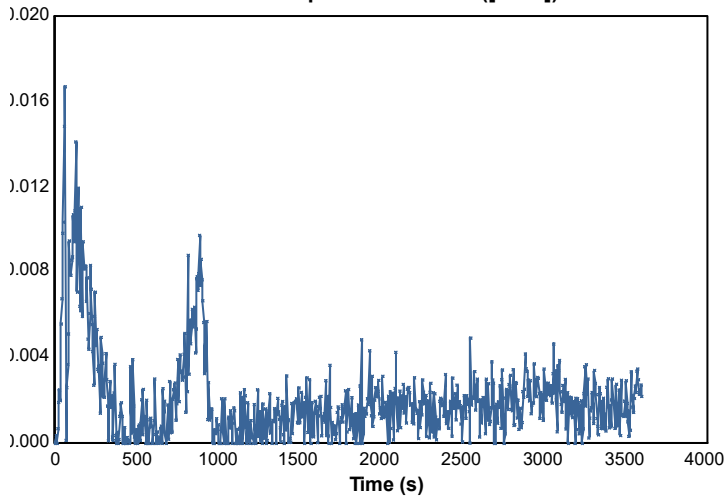
Heat release rate (kW/m²)



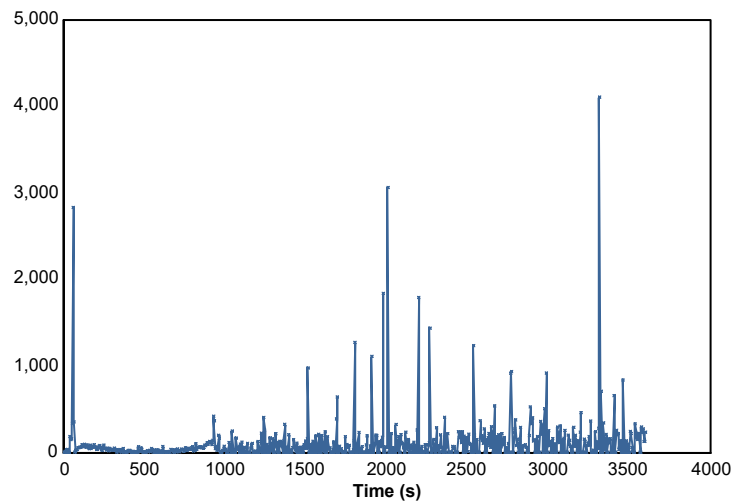
Effective heat of combustion (MJ/kg)



Smoke production rate ([m³/s])



Specific extinction area (m²/kg)



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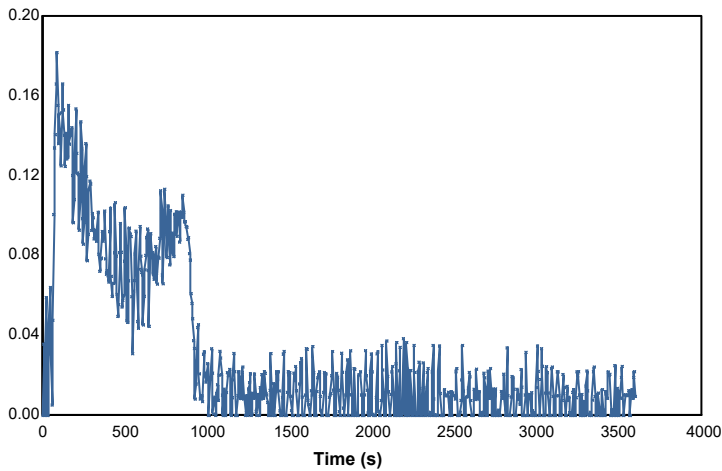
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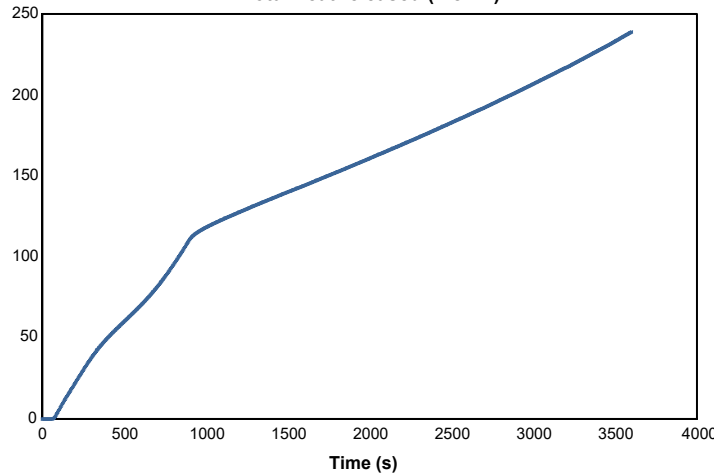
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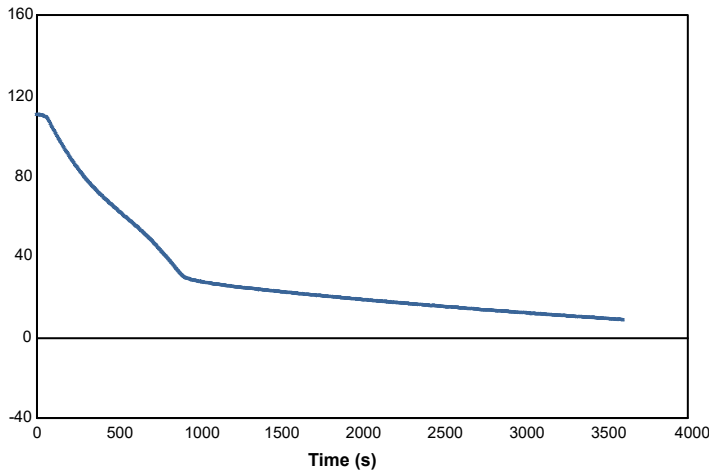
Mass loss rate (g/s)



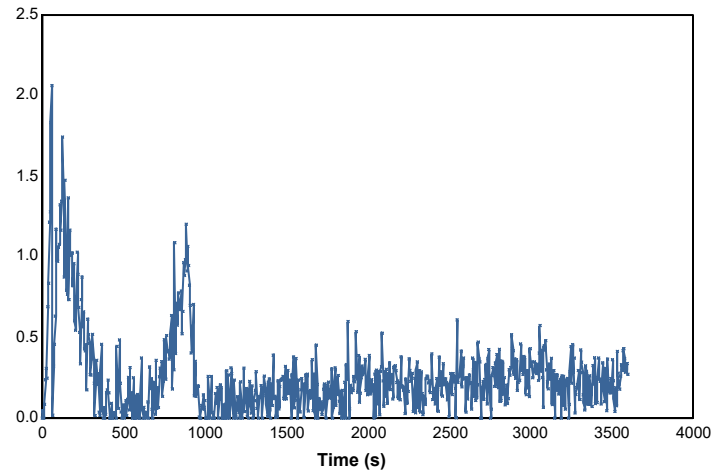
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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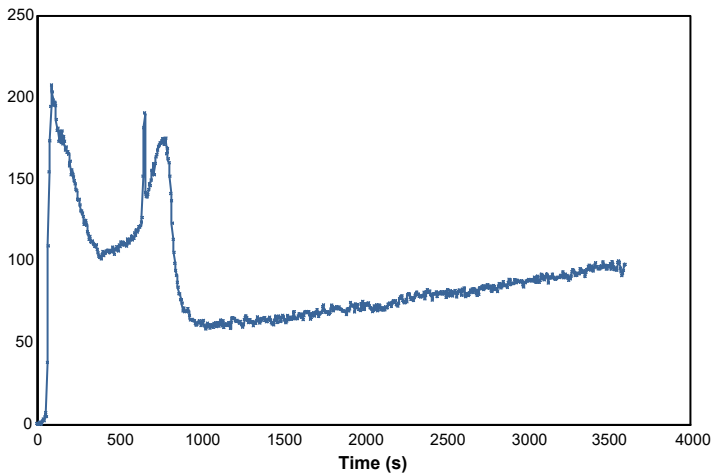
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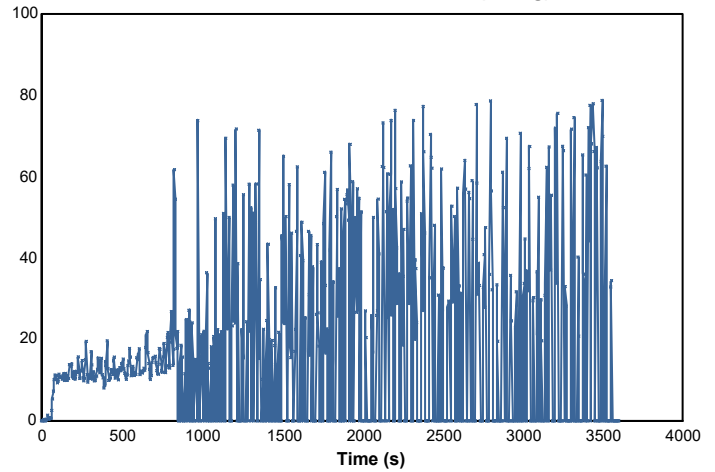
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Specimen : 3

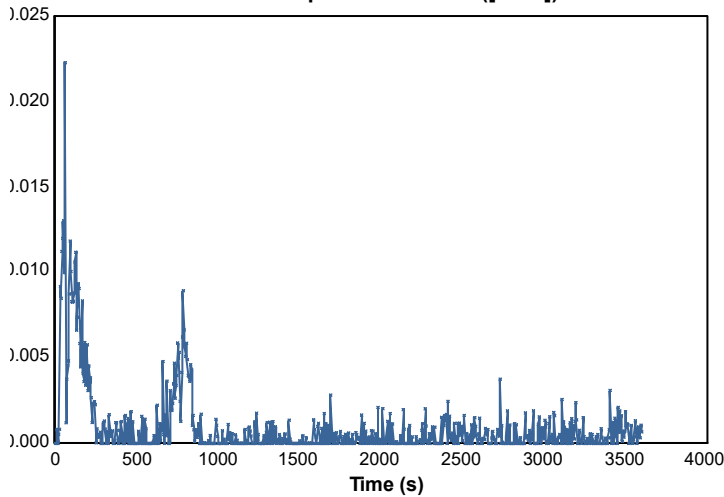
Heat release rate (kW/m²)



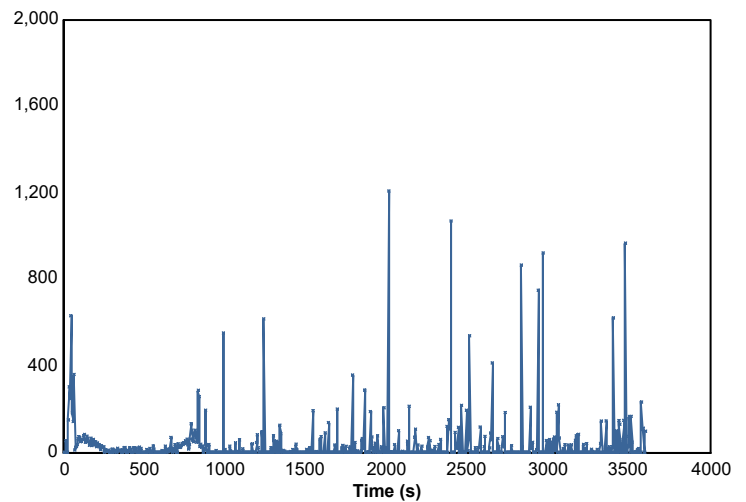
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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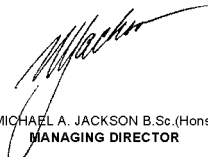
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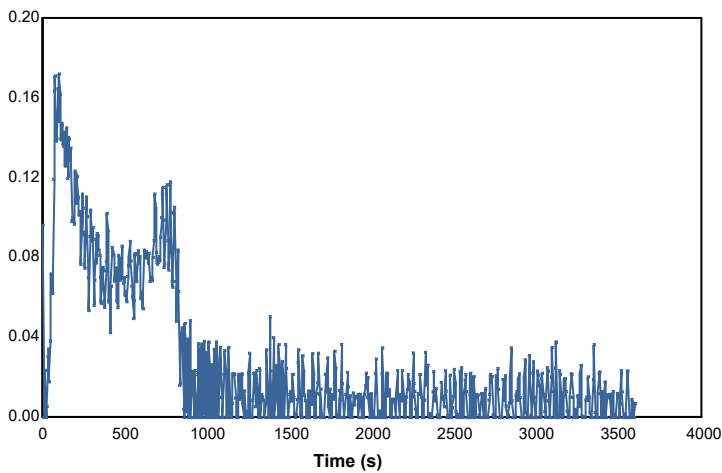
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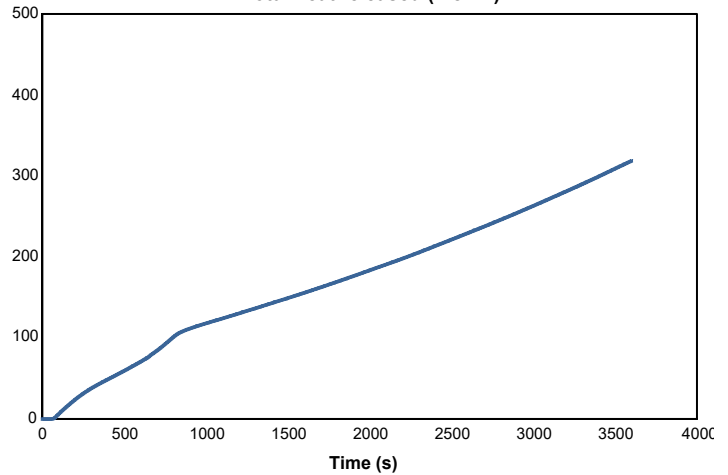
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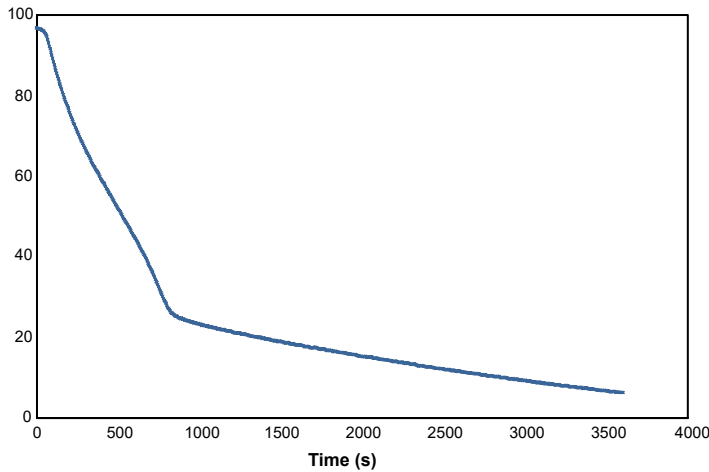
Mass loss rate (g/s)



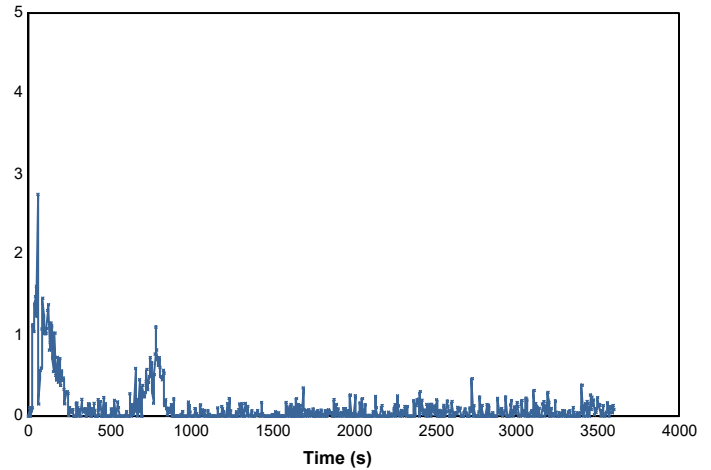
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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