

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 : Serfloor Australia Pty Ltd
1/151 Princes Highway
Hallam VIC 3803

Test Number : 20-004323
Issue Date : 11/09/2020
Print Date : 22/09/2020

Sample Description

Clients Ref : "Wall Profile"
Laminated MDF
Colour : Timber effect
Nominal Composition : MDF with laminated coating
Nominal Mass per Unit Area/Density : Approx: 11.5kg/m²
Nominal Thickness : Approx: 19mm

AS/NZS 3837-1998

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

Date Tested 11/09/2020
Face Tested Timber effect

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	51.2	51.2	53.1	51.8	kW/m ²
Average Specific extinction area	77.1	102.0	98.4	92.5	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	13	21	19	18	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	229.1	228.8	239.5	232.5	kW/m ²
Average heat at 60 s	159.8	172.5	157.2	163.2	kW/m ²
Average heat at 180 s	175.9	174.9	173.4	174.7	kW/m ²
Average heat at 300 s	154.9	152.8	153.2	153.6	kW/m ²
Total heat released	183.4	182.9	190.0	185.4	MJ/m ²

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Average effective heat of combustion	14.2	14.4	15.1	14.6	MJ/kg
Initial thickness	19	19	19	19.0	mm
Initial mass	114.8	115.1	114.8	114.9	g
Mass remaining	10.4	11.8	12.8	11.7	g
Mass percentage pyrolysed	90.9	89.7	88.8	89.8	%
Mass loss	12.9	12.7	12.6	12.7	kg/m ²
Average rate of mass loss	3.6	3.6	3.5	3.6	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.

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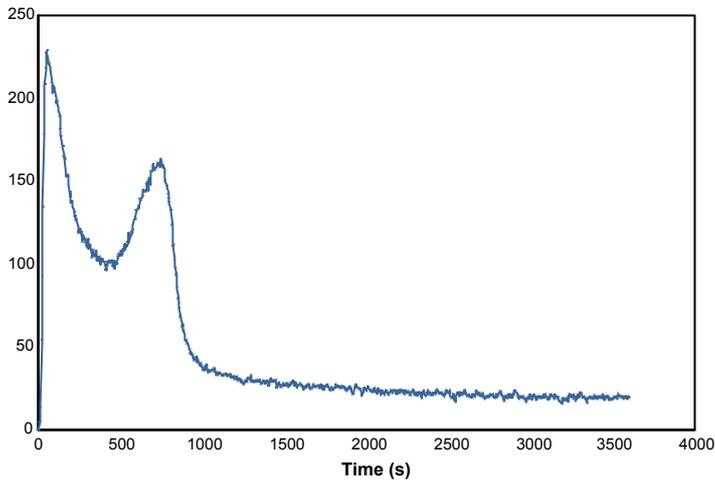
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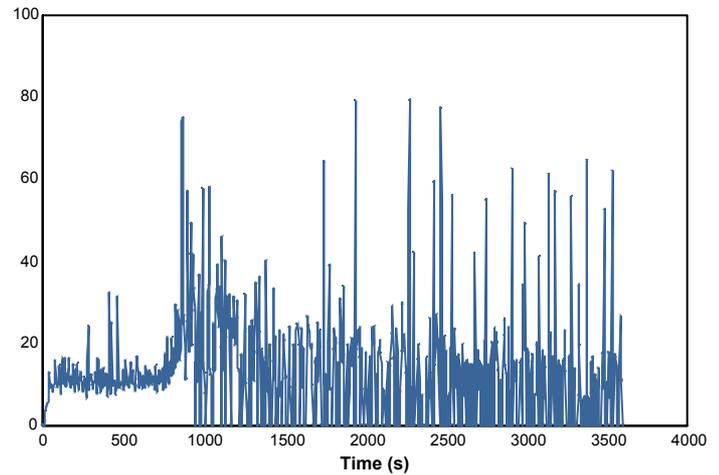
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Specimen : 1

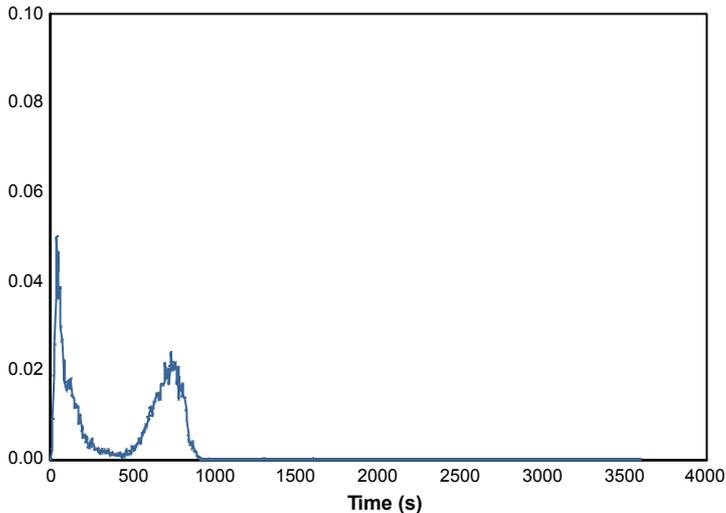
Heat release rate (kW/m²)



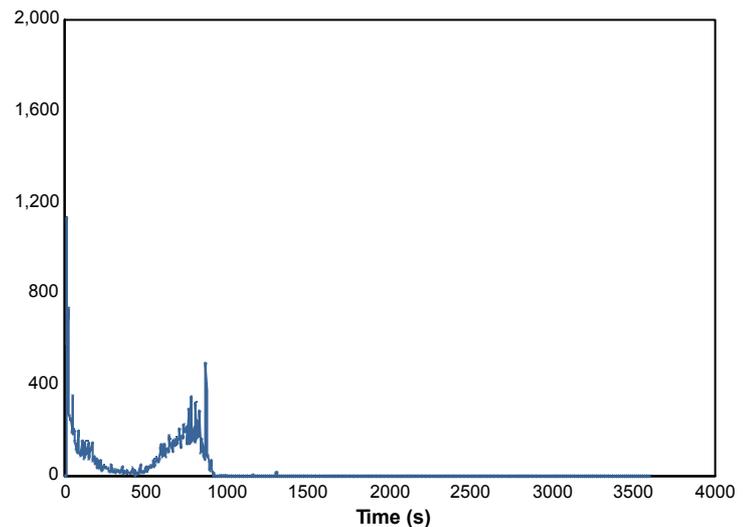
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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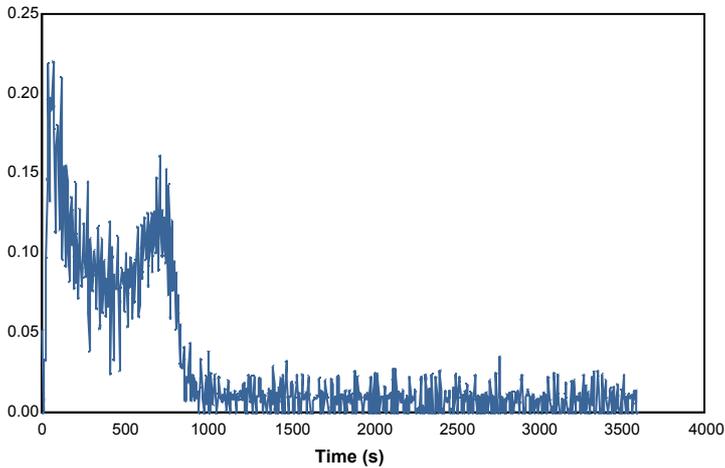
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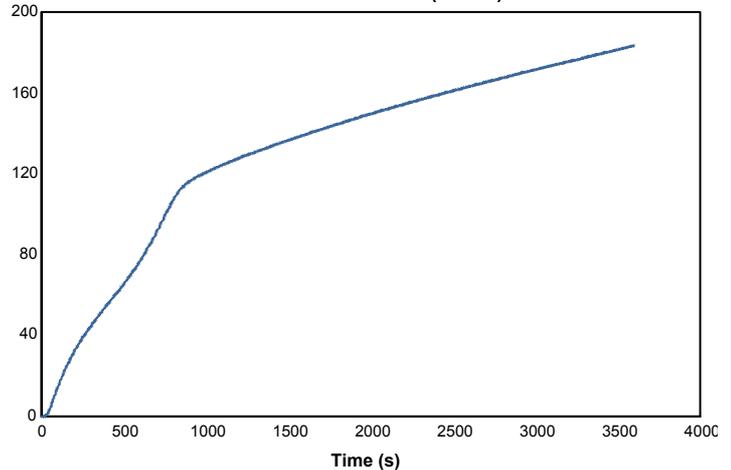
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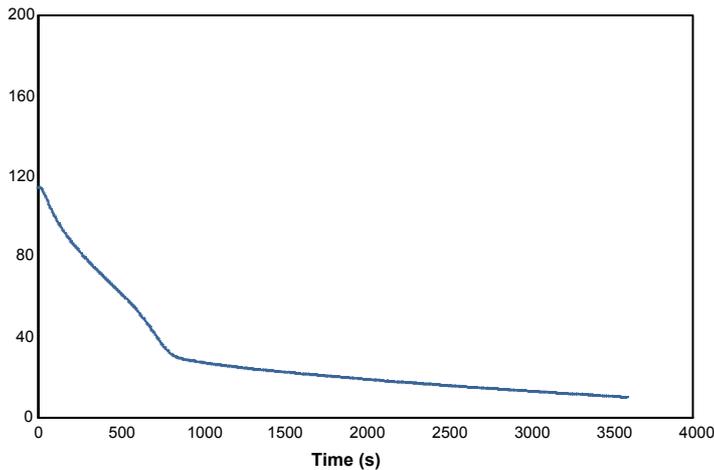
Mass loss rate (g/s)



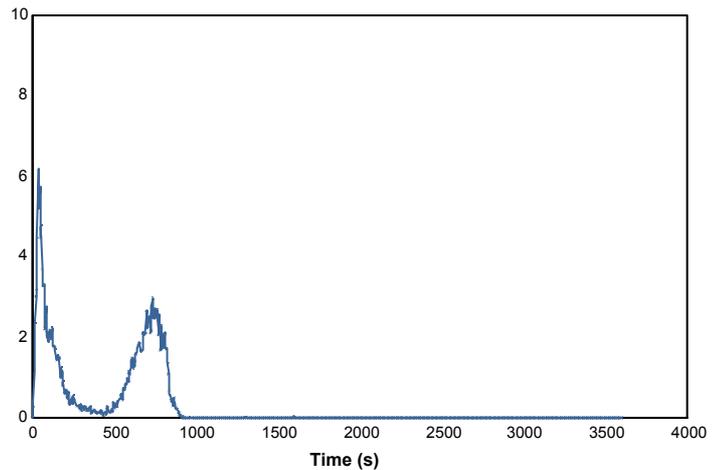
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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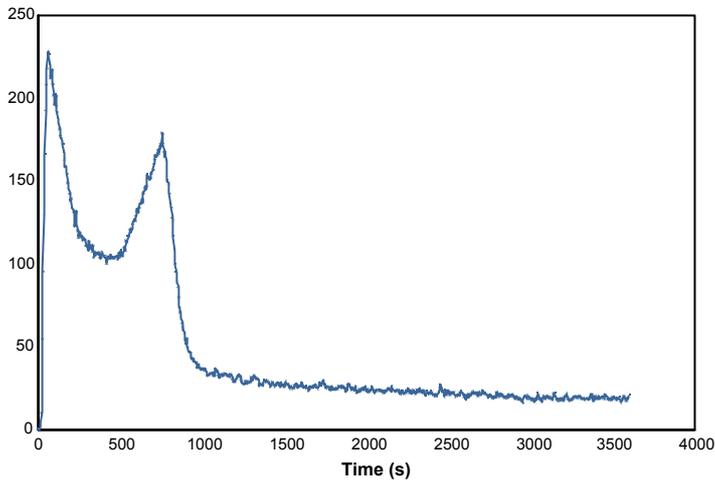
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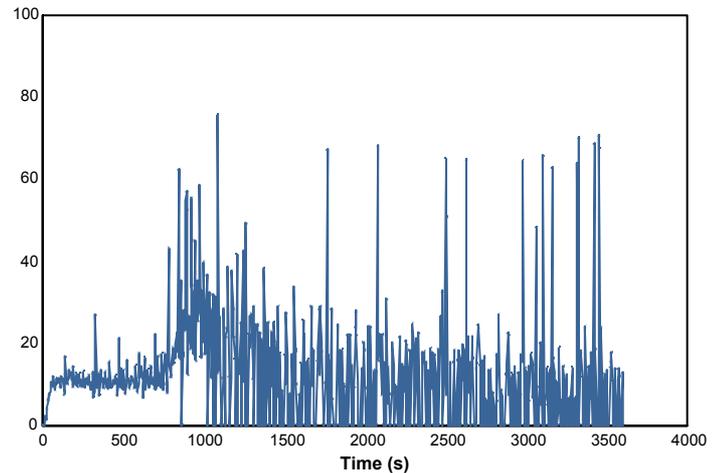
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Specimen : 2

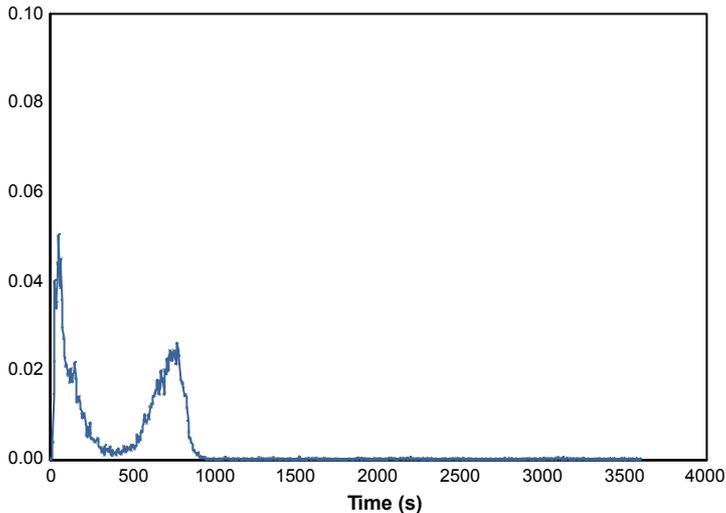
Heat release rate (kW/m²)



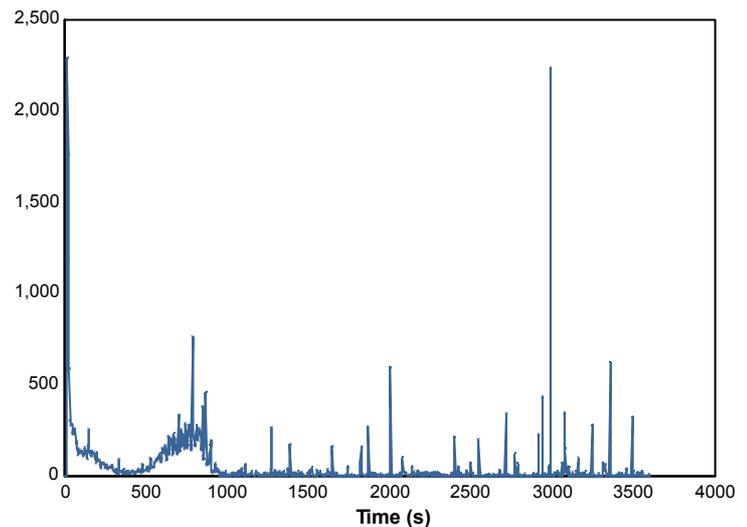
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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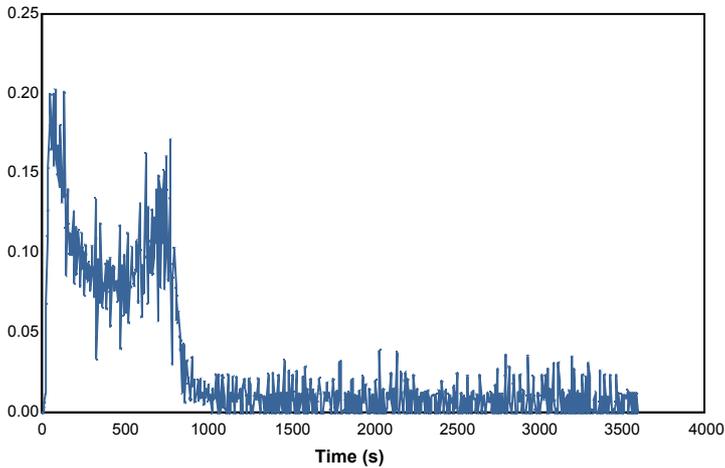
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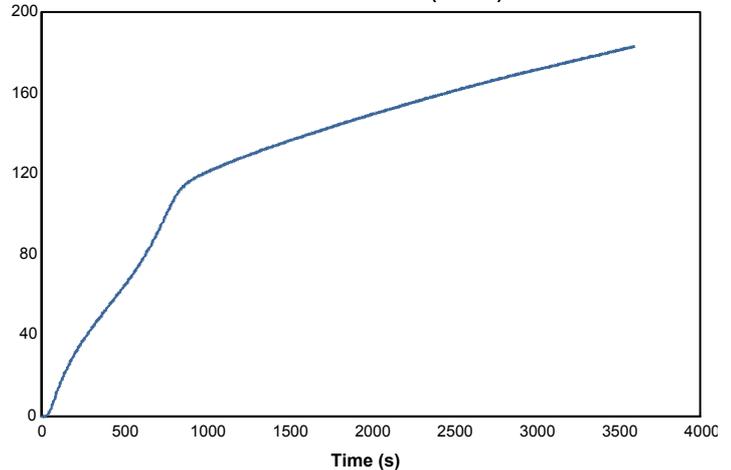
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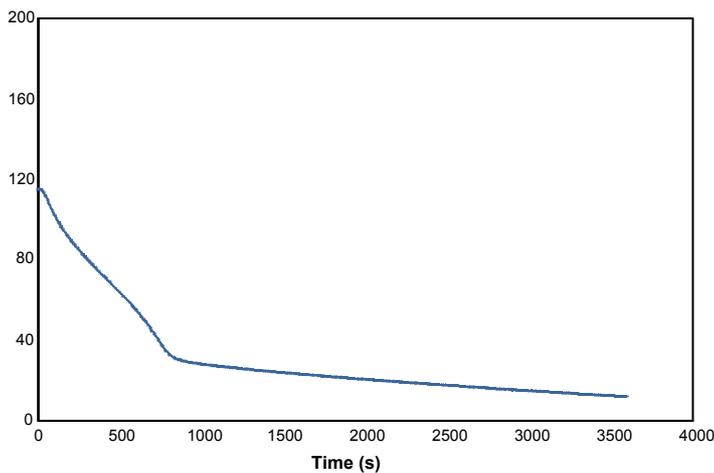
Mass loss rate (g/s)



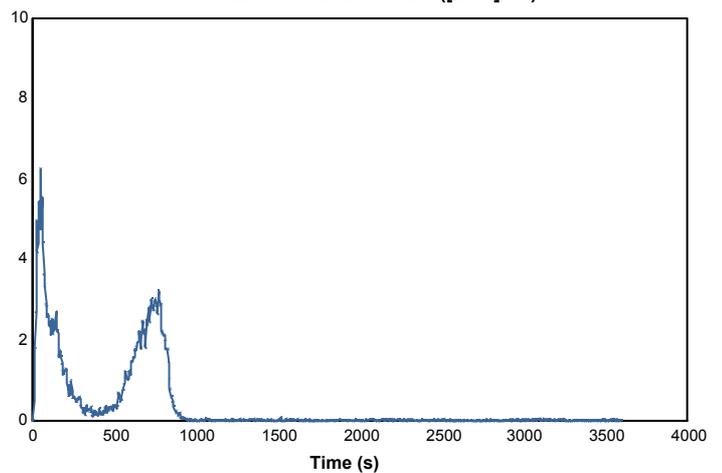
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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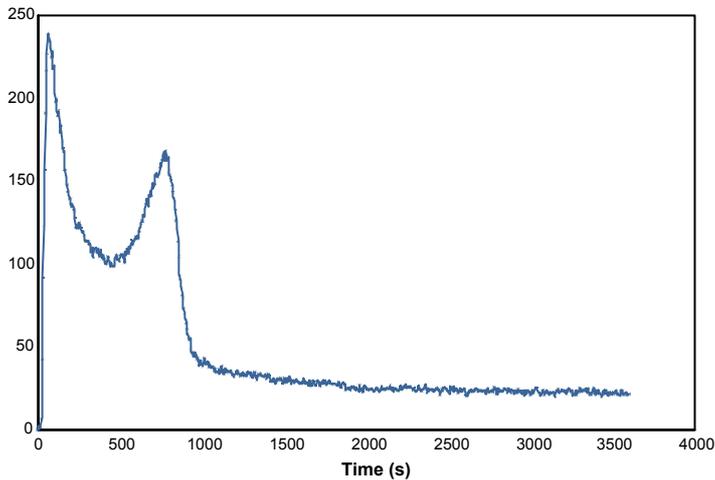
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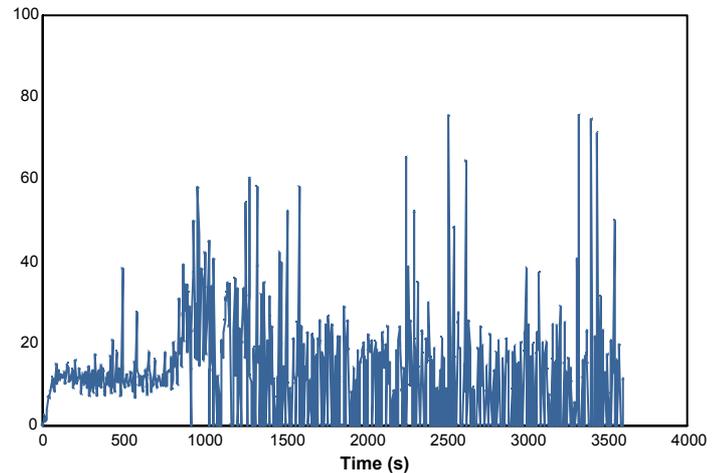
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Specimen : 3

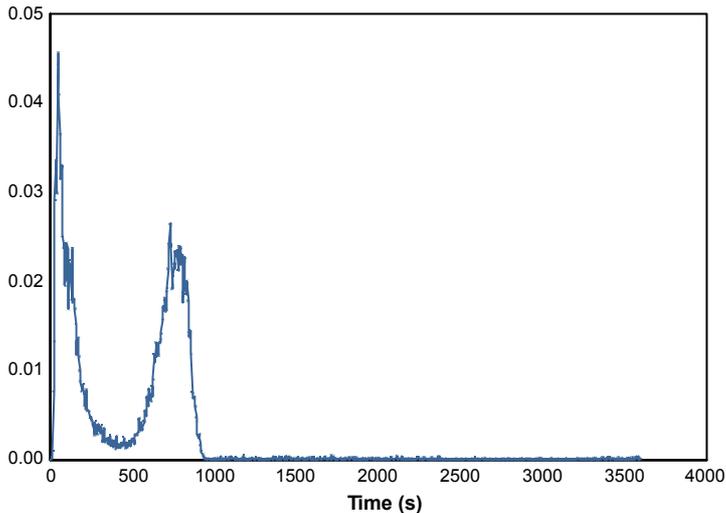
Heat release rate (kW/m²)



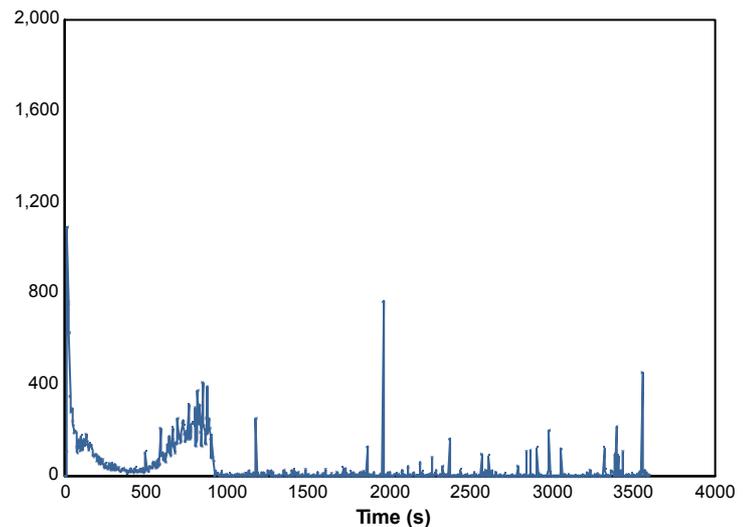
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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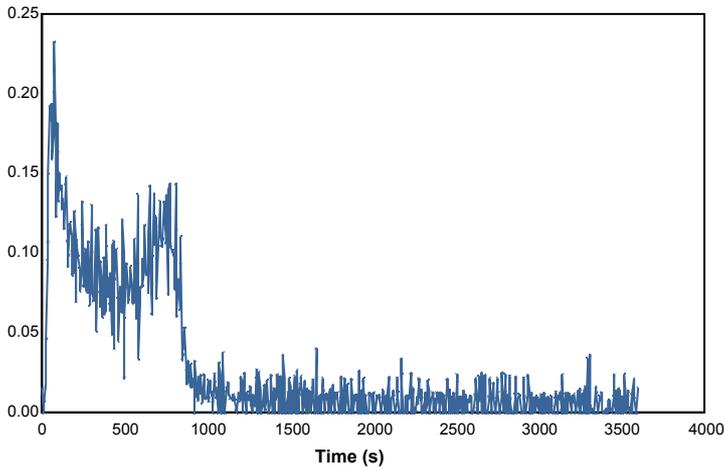
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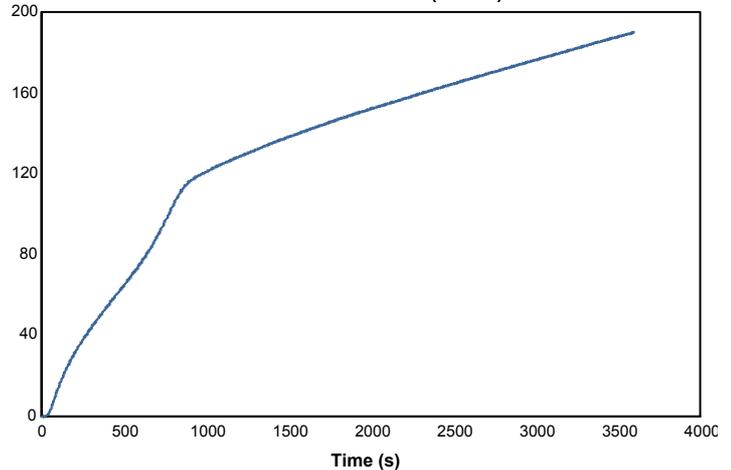
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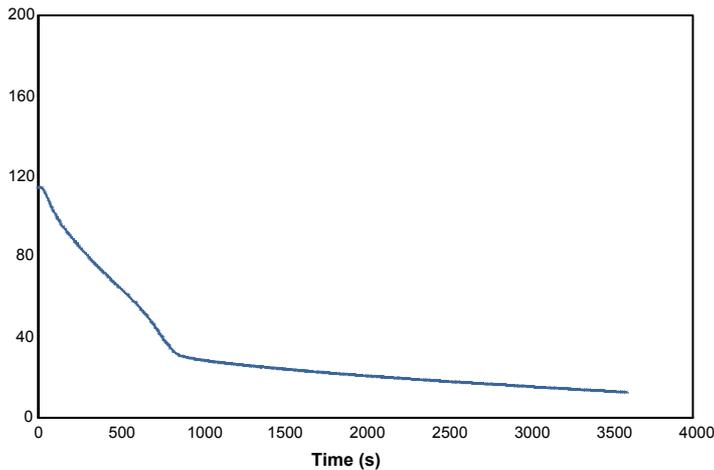
Mass loss rate (g/s)



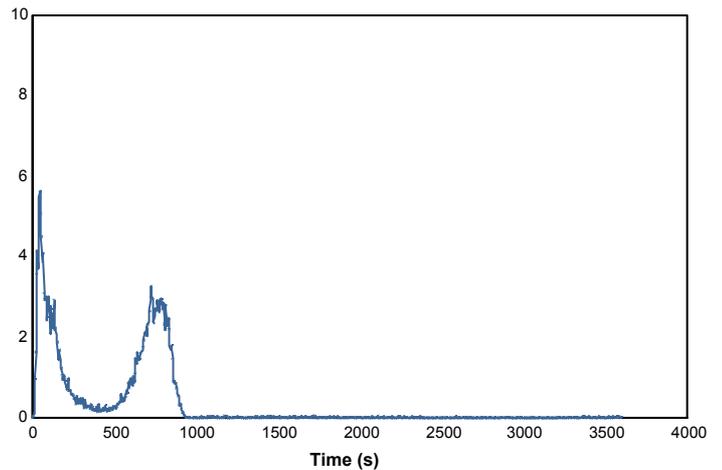
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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