

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 Fax (03) 9371 2499

TEST REPORT

Client : Specialized Laminators Qld
175 Magnesium Drive
Crestmead QLD 4132

Test Number : 19-004999
Issue Date : 14/10/2019
Print Date : 21/10/2019

Sample Description Clients Ref : "Cleantouch Compact"
Rigid Panel
Colour : Black
End Use : Wall Linings
Nominal Composition : Polymerized kraft paper and resin
Nominal Mass per Unit Area/Density : 17.2kg/m²
Nominal Thickness : 12mm

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

Date Tested 14/10/2019
Operator AWTA Test Operator 7
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	69.4	55.8	61.1	62.1	kW/m ²
Average Specific extinction area	17.6	35.6	21.6	24.9	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	46	43	56	48	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	120.0	117.0	116.3	117.8	kW/m ²
Average heat at 60 s	77.4	71.6	75.4	74.8	kW/m ²

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38705

Page 1 of 8

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APPROVED SIGNATORY

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

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Average heat at 180 s	77.3	75.0	79.5	77.3	kW/m ²
Average heat at 300 s	77.1	73.2	76.9	75.7	kW/m ²
Total heat released	246.5	198.5	216.2	220.4	MJ/m ²
Average effective heat of combustion	16.1	13.2	14.3	14.5	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	171.9	172.1	171.4	171.8	g
Mass at sustained flaming	171.6	171.9	170.6	171.4	g
Mass remaining	47.7	50.0	48.8	48.8	g
Mass percentage pyrolysed	72.3	71.0	71.6	71.6	%
Mass loss	15.3	15.1	15.1	15.2	kg/m ²
Average rate of mass loss	4.3	4.2	4.3	4.3	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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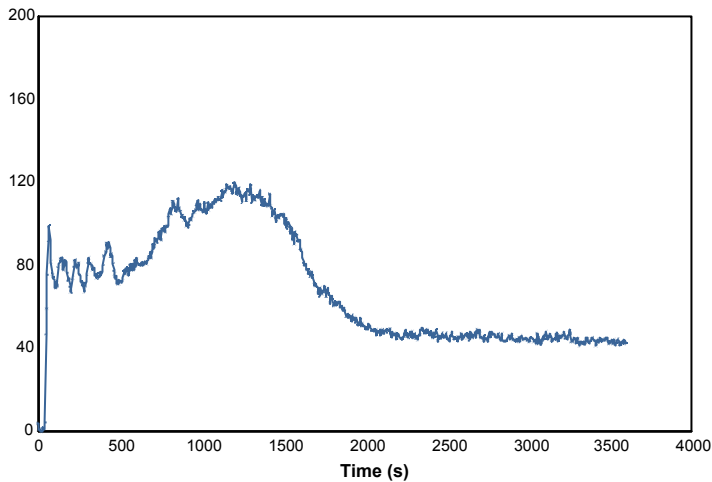
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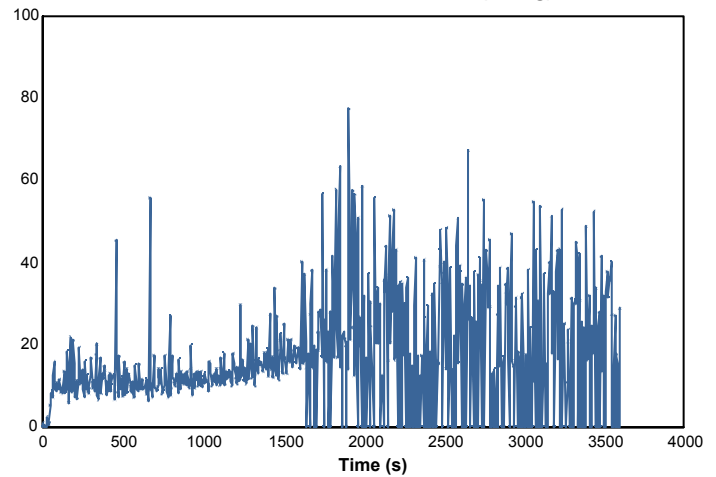
Test Number : 19-004999
Issue Date : 14/10/2019
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Specimen : 1

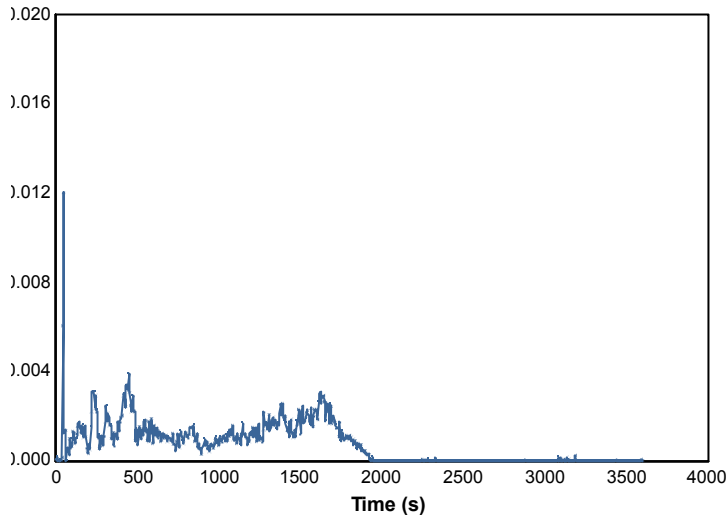
Heat release rate (kW/m²)



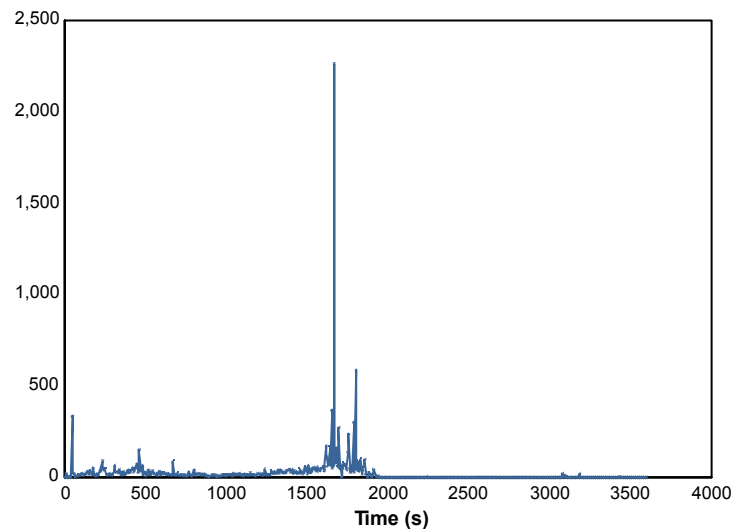
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Page 3 of 8

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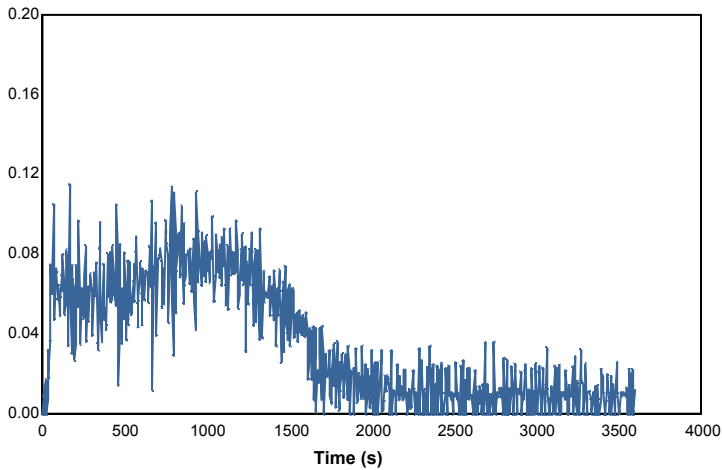
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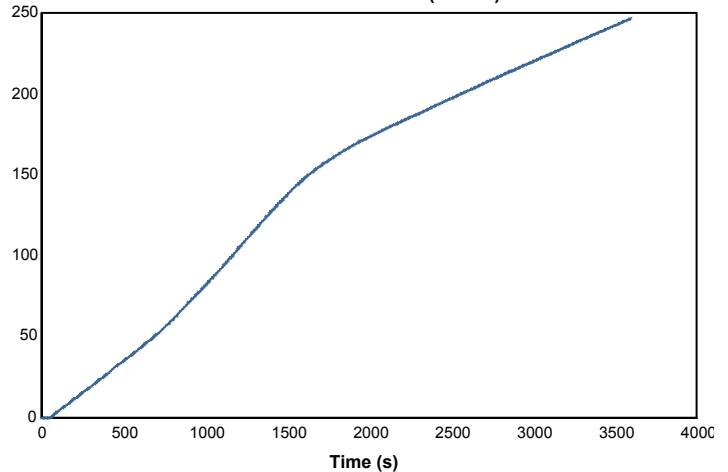
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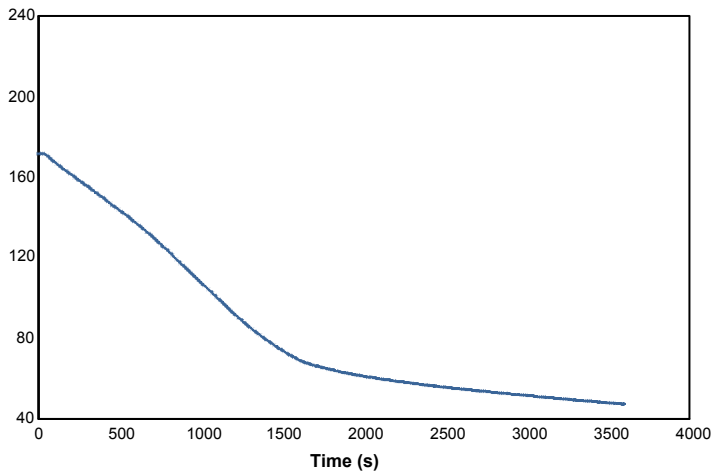
Mass loss rate (g/s)



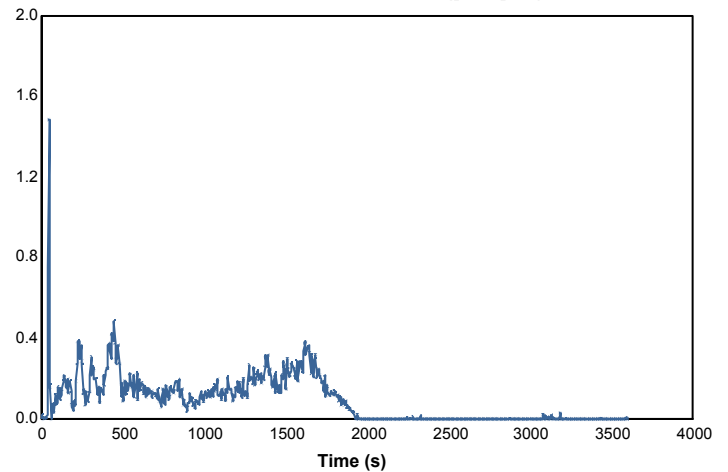
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Page 4 of 8

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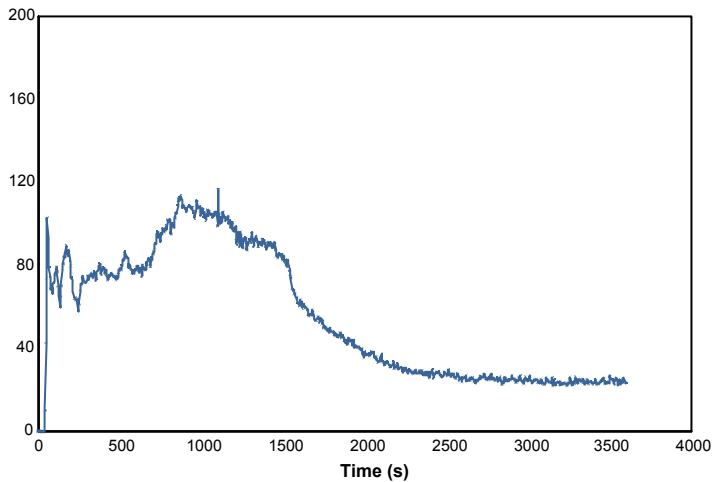
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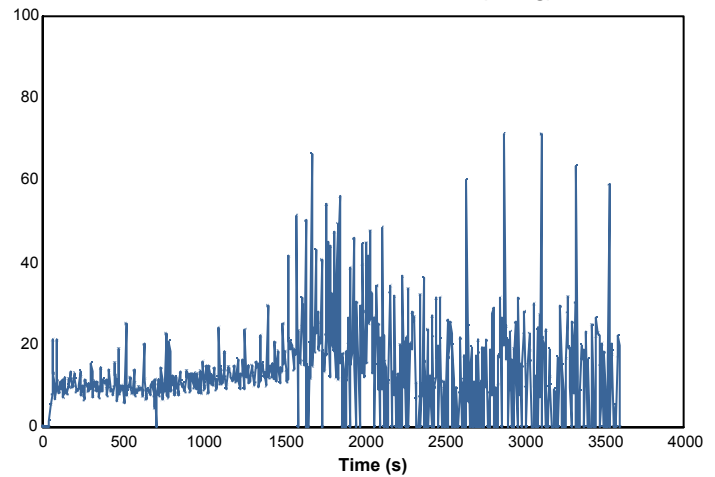
Test Number : 19-004999
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Specimen : 2

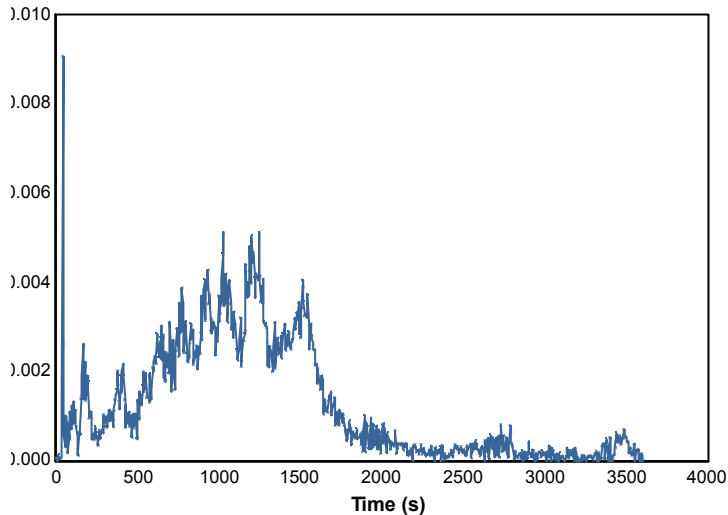
Heat release rate (kW/m²)



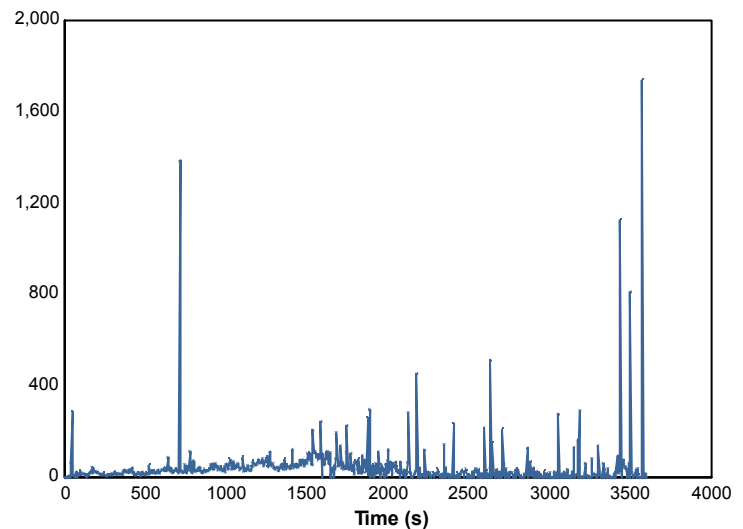
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Page 5 of 8

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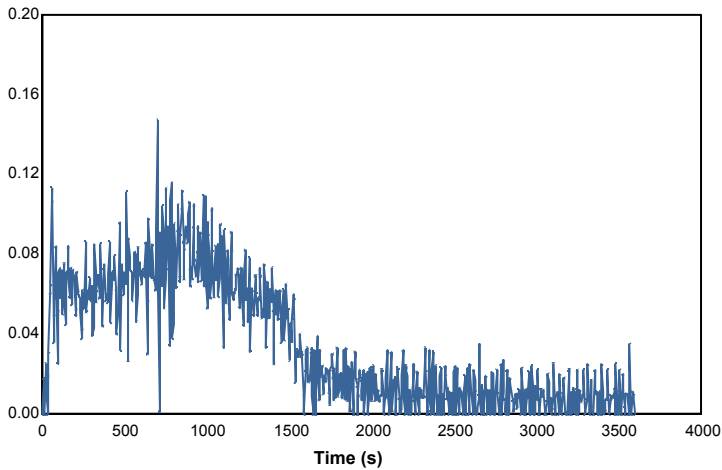
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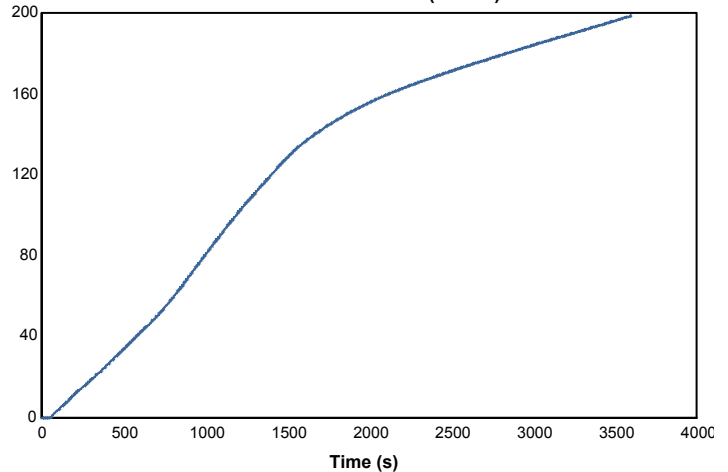
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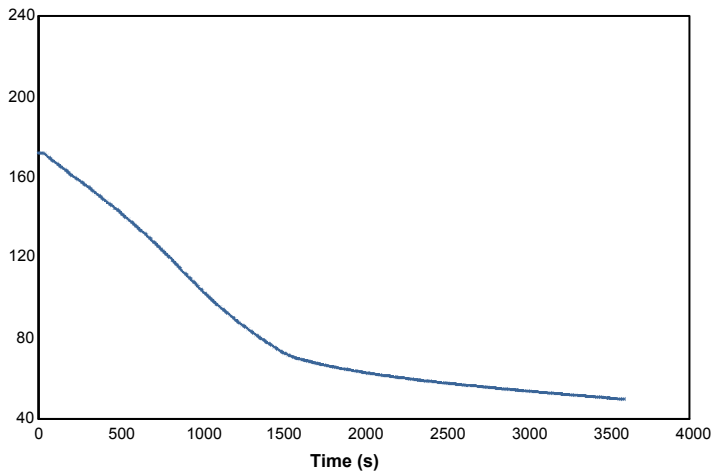
Mass loss rate (g/s)



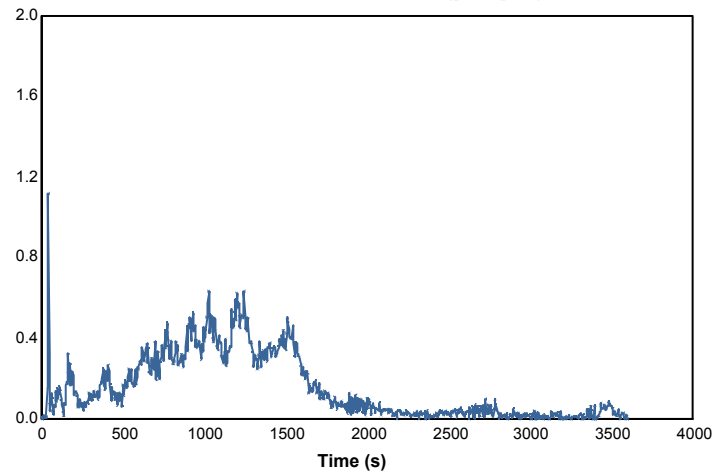
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Page 6 of 8

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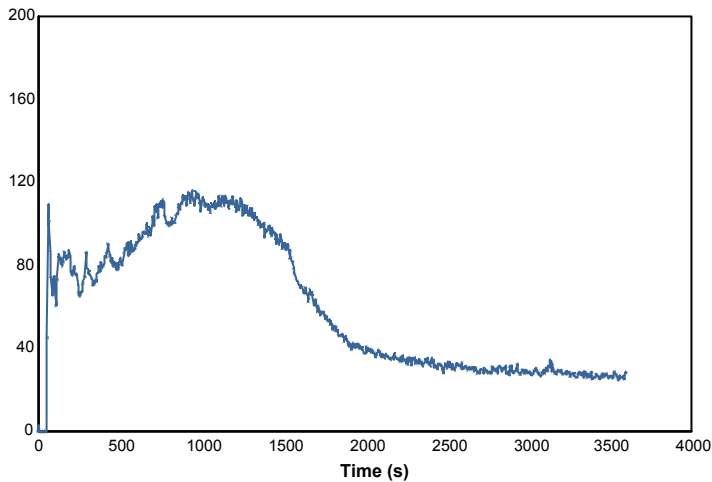
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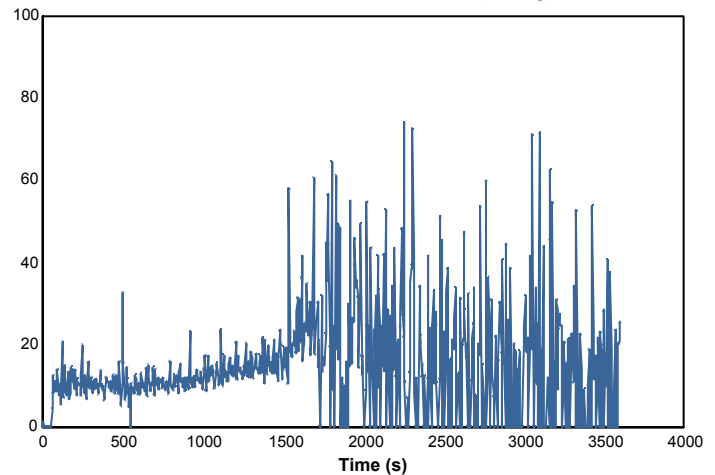
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Specimen : 3

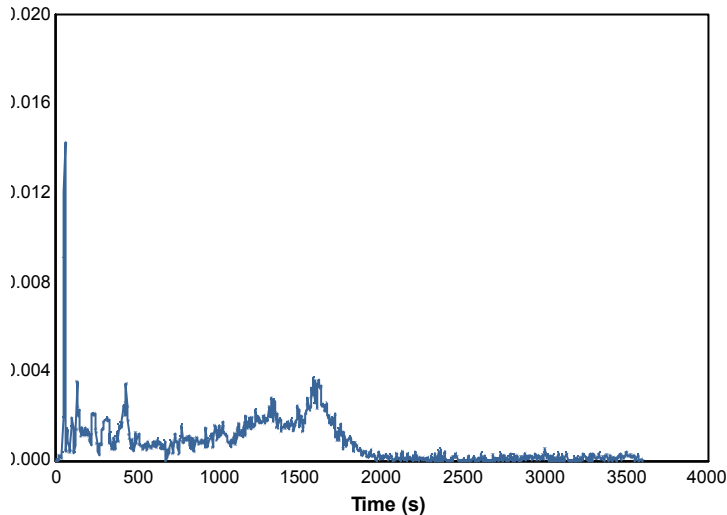
Heat release rate (kW/m²)



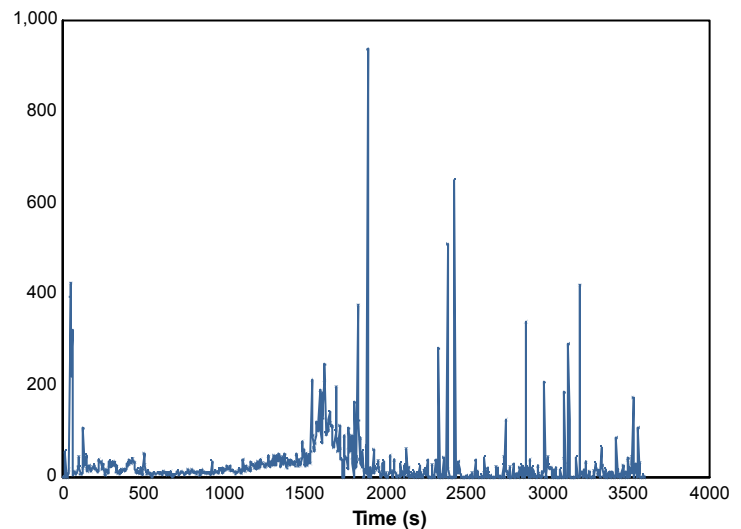
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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Page 7 of 8

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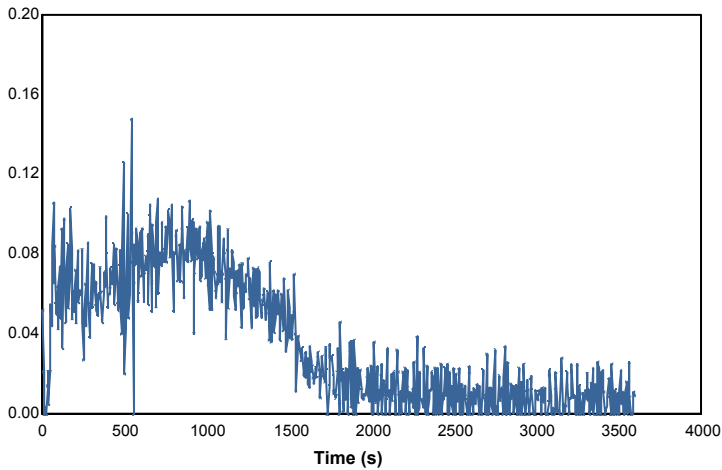
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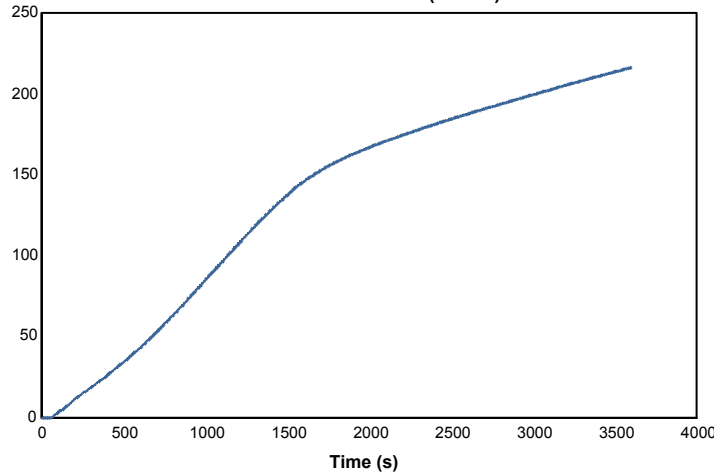
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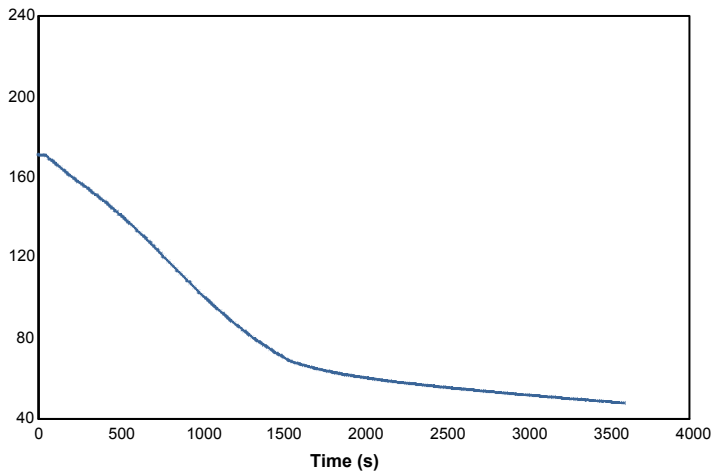
Mass loss rate (g/s)



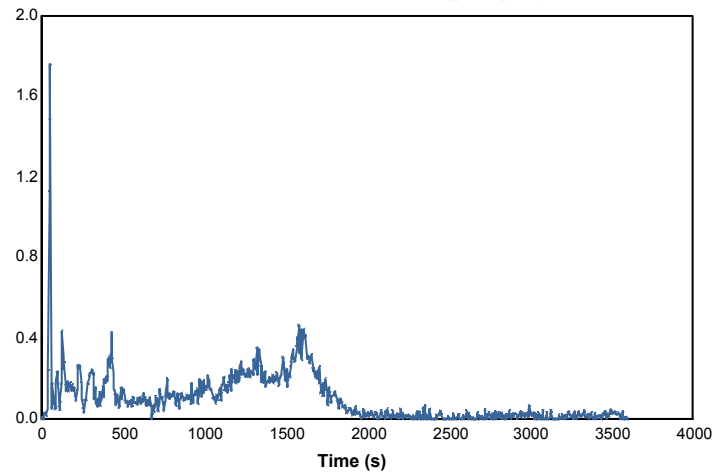
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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