

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 : Cedar Sales Pty Ltd
150 Toongarra Road
Wulkuraka QLD 4305

Test Number : 17-001801
Issue Date : 11/05/2017
Print Date : 11/05/2017

Sample Description Rigid panel
Colour : Natural
End Use : Moulded panelling & Cladding
Nominal Composition : Western Hemlock
Nominal Mass per Unit Area/Density : 475kg/m3
Nominal Thickness : 50mm

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

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	59.0	63.8	64.8	62.5	kW/m ²
Average Specific extinction area	18.3	16.6	15.4	16.8	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	24	24	24	24	L/sec
Time to sustained flaming	19	17	17	18	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	158.9	168.5	143.7	157.0	kW/m ²
Average heat at 60 s	103.3	120.4	106.3	110.0	kW/m ²
Average heat at 180 s	87.5	93.5	83.2	88.1	kW/m ²
Average heat at 300 s	82.8	87.2	77.5	82.5	kW/m ²
Total heat released	211.2	228.6	232.2	224.0	MJ/m ²
Average effective heat of combustion	12.6	12.5	13.3	12.8	MJ/kg

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: Accreditation No. 985
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Initial thickness	38.0	38.0	38.0	38.0	mm
Initial mass	176.6	196	186.1	186.2	g
Mass remaining	27.6	34.1	30.4	30.7	g
Mass percentage pyrolysed	84.4	82.6	83.7	83.5	%
Mass loss	149.0	161.9	155.7	155.5	g
Average rate of mass loss	4.7	5.1	4.9	4.9	g/m ² .s

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.

Specimen thickness was reduced to 38mm for testing purposes.

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0204/11/06

APPROVED SIGNATORY

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

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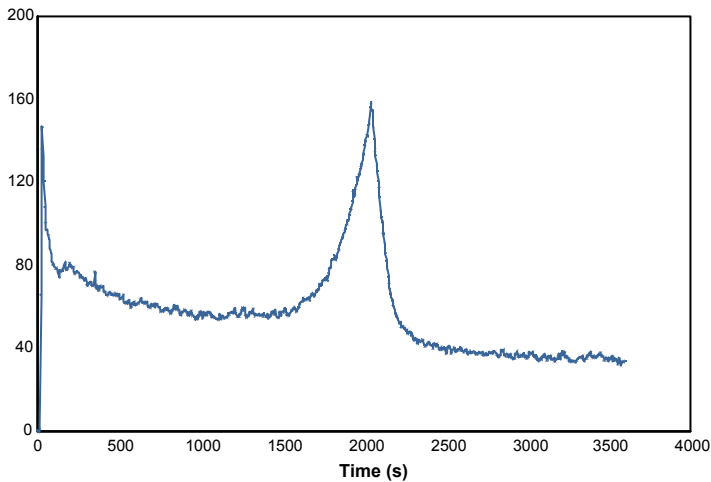
TEST REPORT

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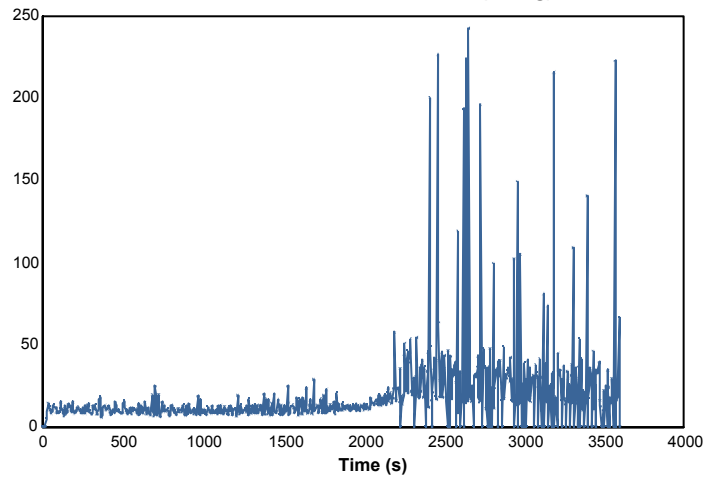
Test Number : 17-001801
Issue Date : 11/05/2017
Print Date : 11/05/2017

Specimen : 1

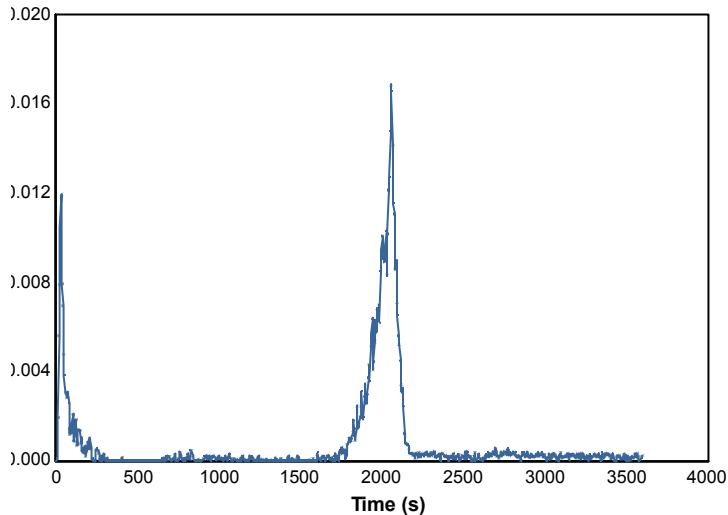
Heat release rate (kW/m²)



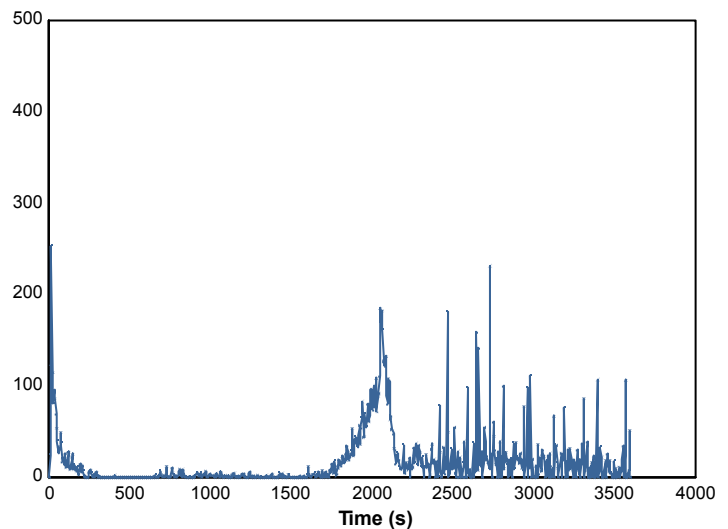
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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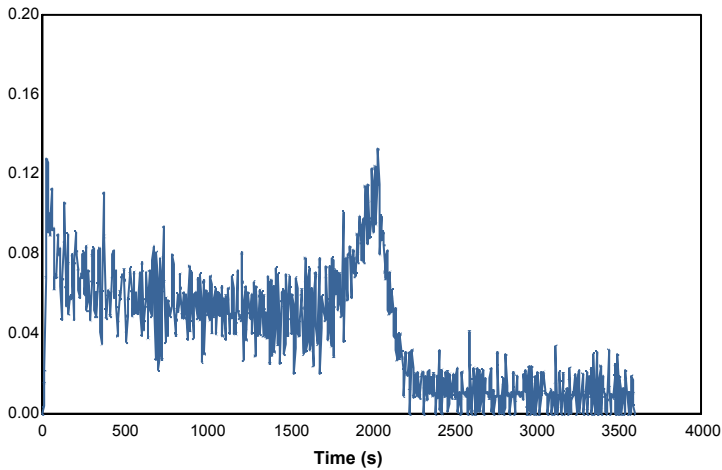
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

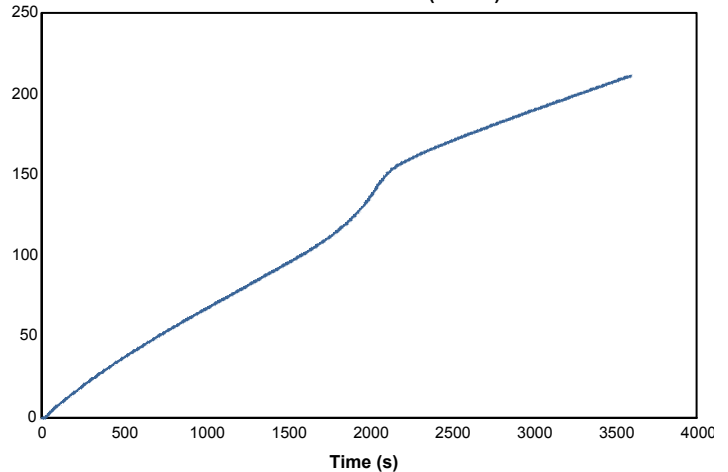
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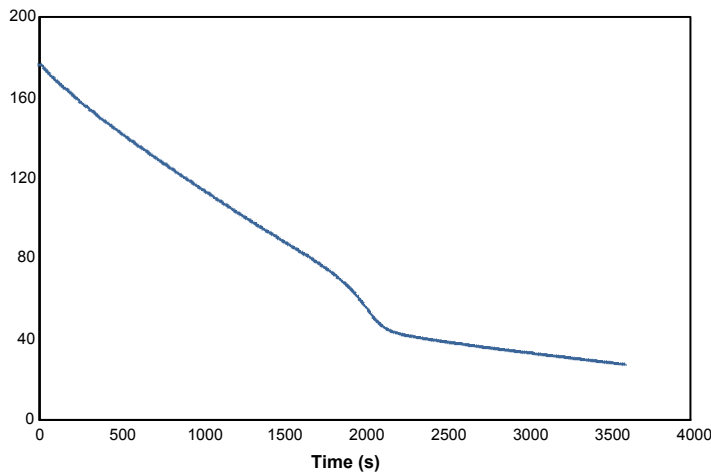
Mass loss rate (g/s)



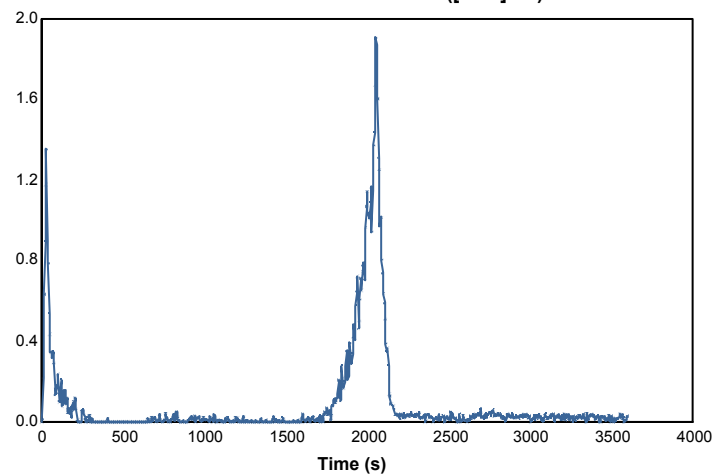
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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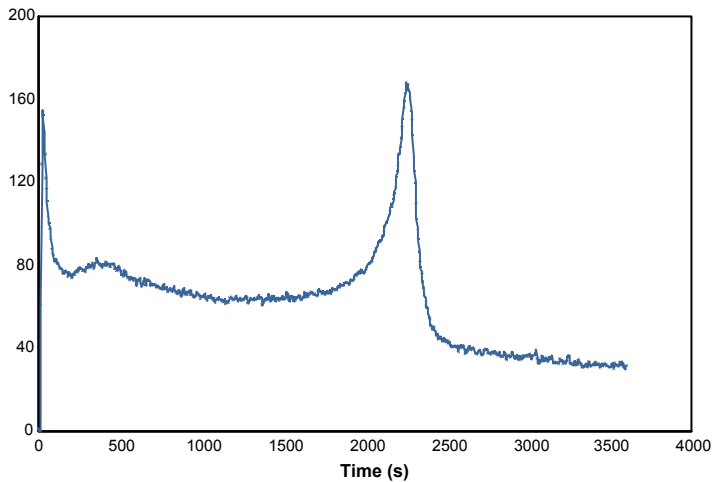
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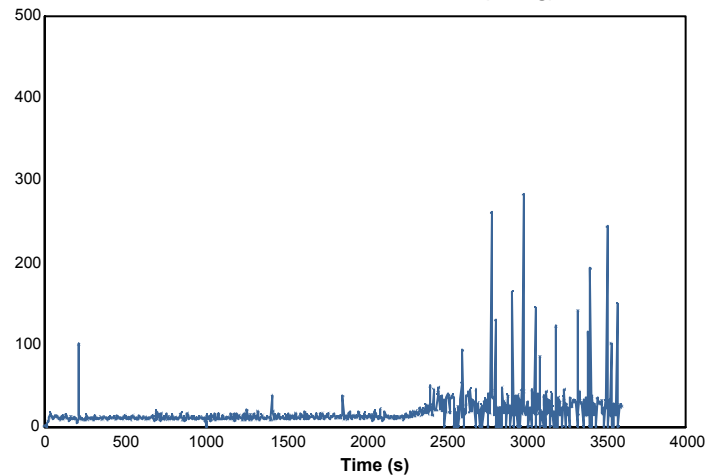
Test Number : 17-001801
Issue Date : 11/05/2017
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Specimen : 2

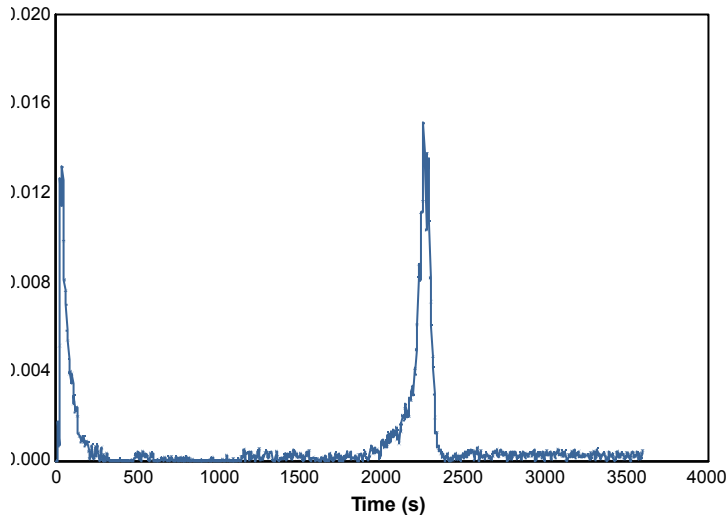
Heat release rate (kW/m²)



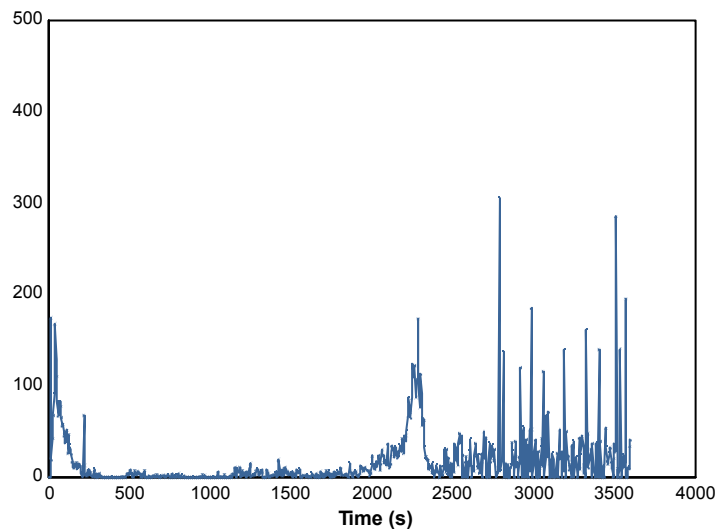
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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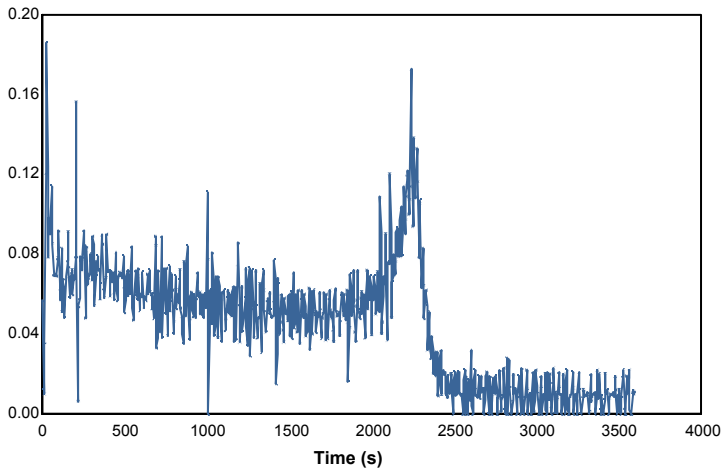
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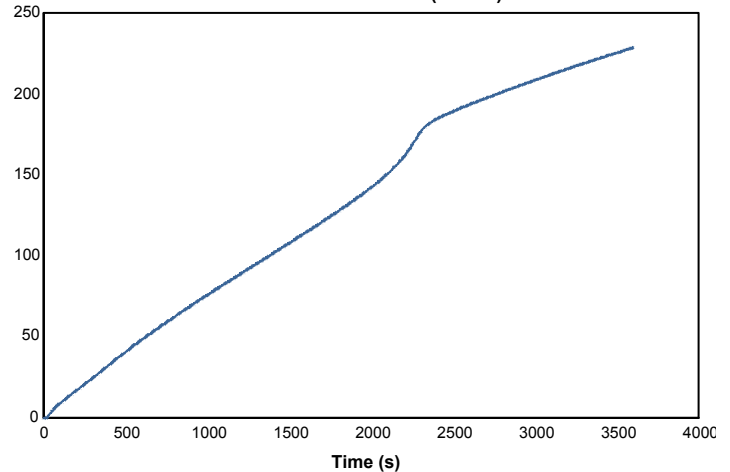
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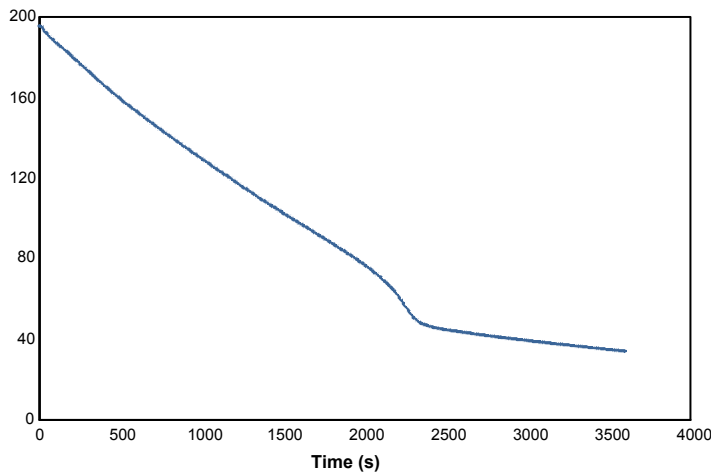
Mass loss rate (g/s)



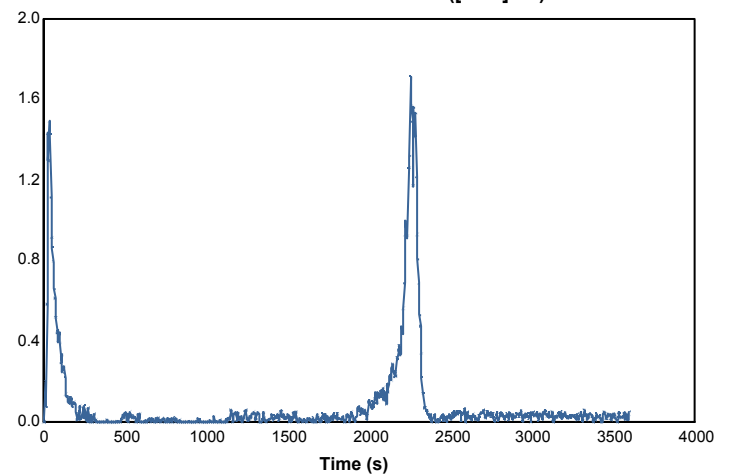
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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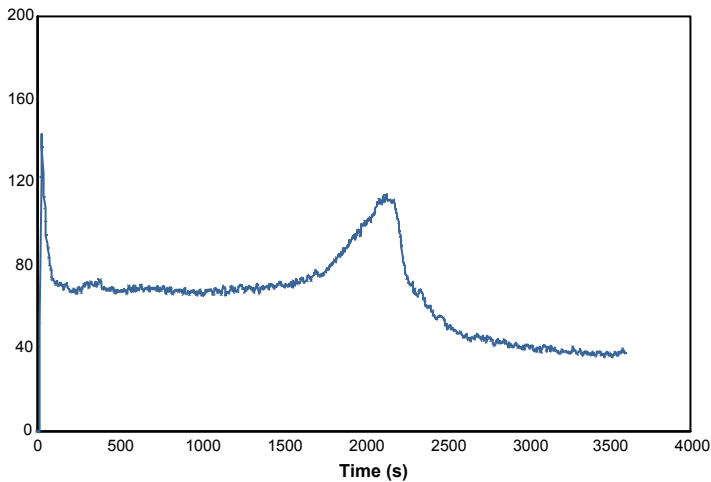
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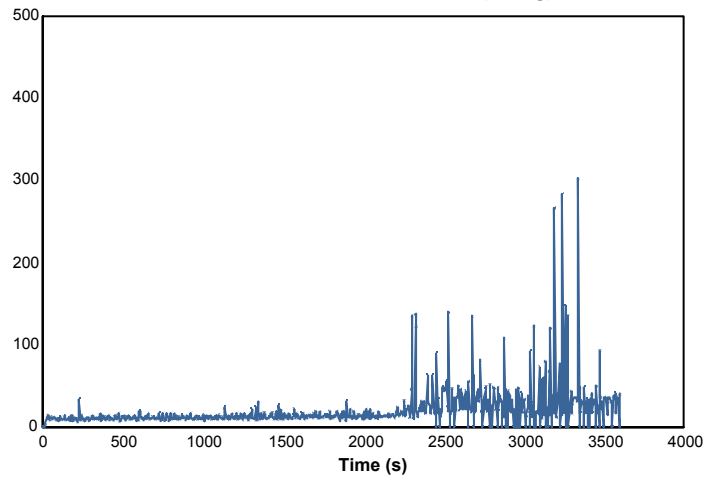
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Specimen : 3

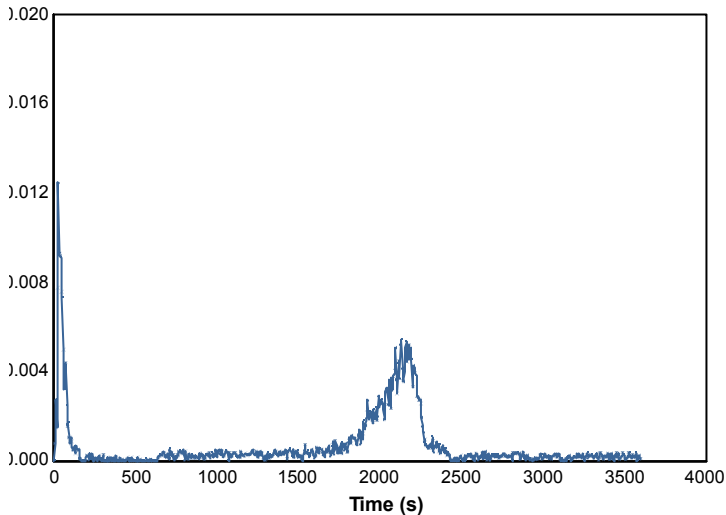
Heat release rate (kW/m²)



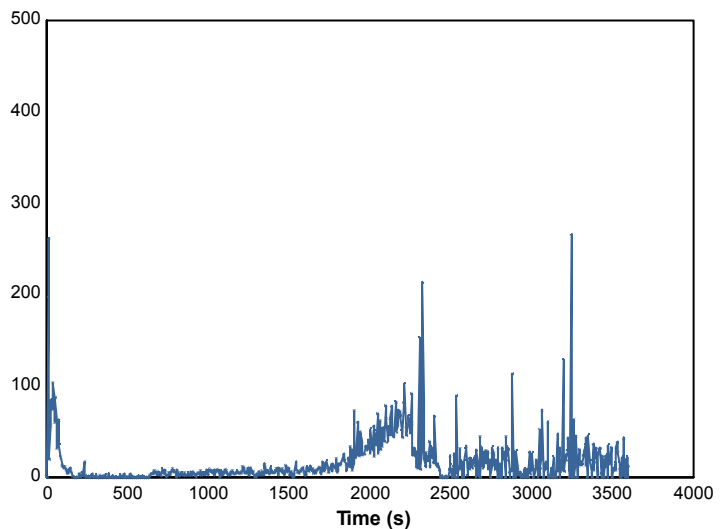
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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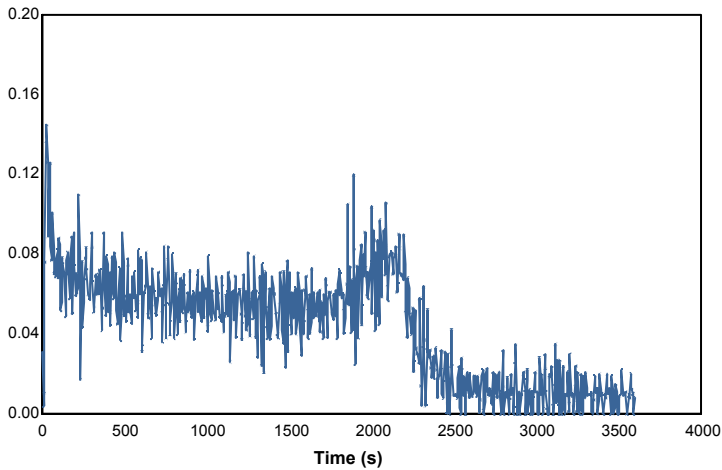
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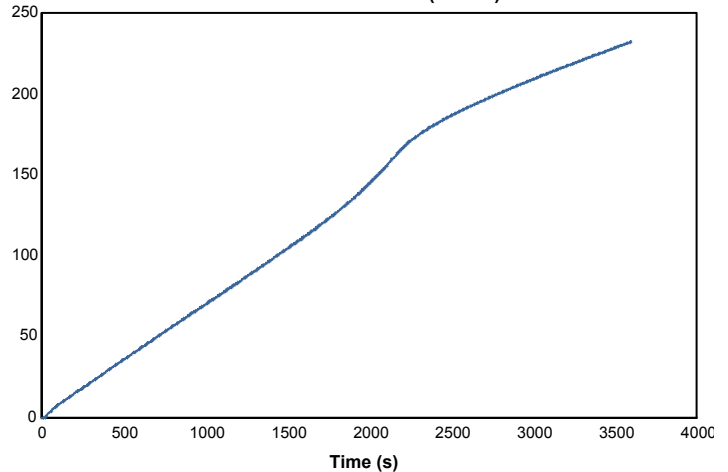
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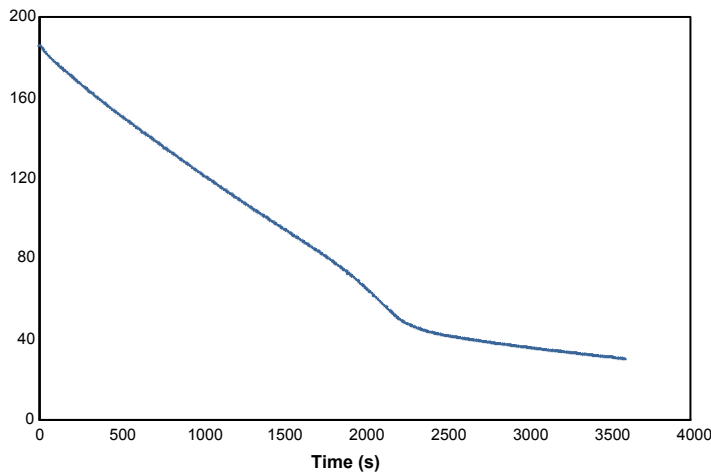
Mass loss rate (g/s)



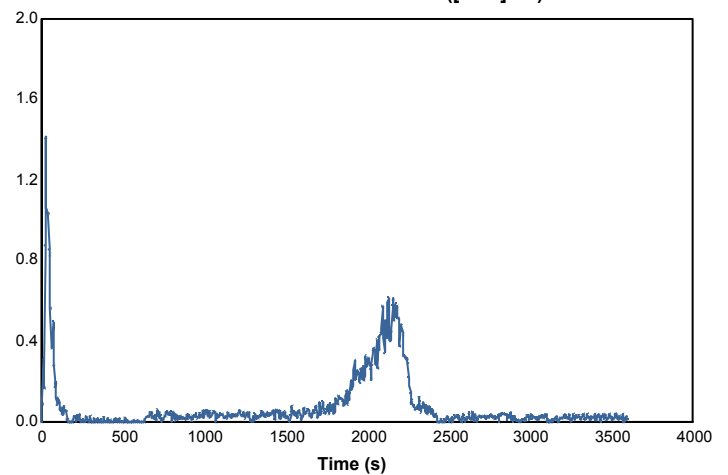
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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