

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 : 17-001799
Issue Date : 08/05/2017
Print Date : 8/05/2017

Sample Description Rigid panel
Colour : Natural
End Use : Moulded panelling & Cladding
Nominal Composition : Spotted gum
Nominal Mass per Unit Area/Density : 970kg/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	76.6	73.3	70.2	73.4	kW/m ²
Average Specific extinction area	6.2	7.5	7.9	7.2	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	42	41	37	40	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	174.3	177.3	174.1	175.2	kW/m ²
Average heat at 60 s	156.4	161.2	154.1	157.2	kW/m ²
Average heat at 180 s	140.5	138.5	137.6	138.9	kW/m ²
Average heat at 300 s	127.5	123.4	123.2	124.7	kW/m ²
Total heat released	272.5	260.8	250.2	261.2	MJ/m ²
Average effective heat of combustion	10.2	9.8	9.7	9.9	MJ/kg

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- Mechanical Testing
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: Accreditation No. 983
: Accreditation No. 985
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Initial thickness	38.0	38.0	38.0	38.0	mm
Initial mass	426.8	424.8	429.6	427.1	g
Mass remaining	188.6	188.9	200.4	192.6	g
Mass percentage pyrolysed	55.8	55.5	53.4	54.9	%
Mass loss	238.2	235.9	229.2	234.5	g
Average rate of mass loss	7.5	7.5	7.3	7.4	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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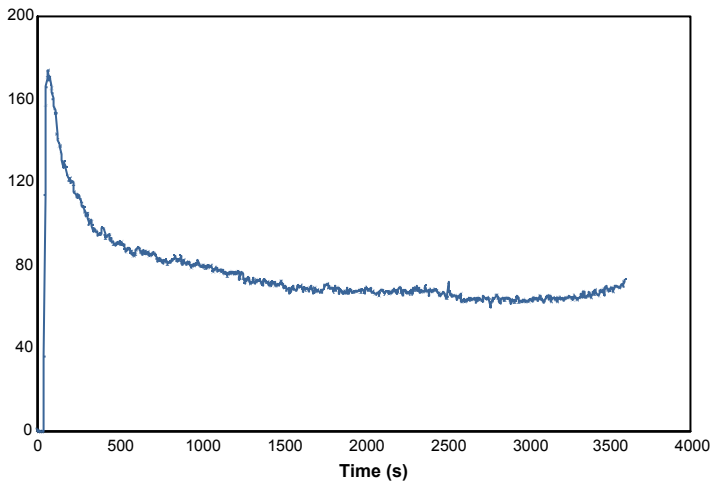
TEST REPORT

Client : Cedar Sales Pty Ltd
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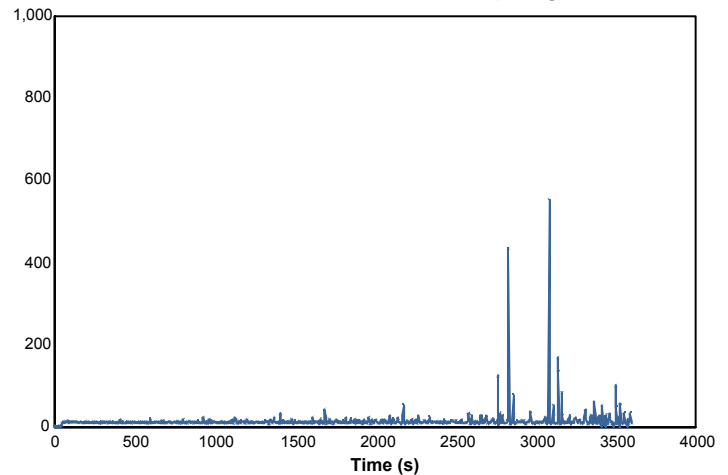
Test Number : 17-001799
Issue Date : 08/05/2017
Print Date : 8/05/2017

Specimen : 1

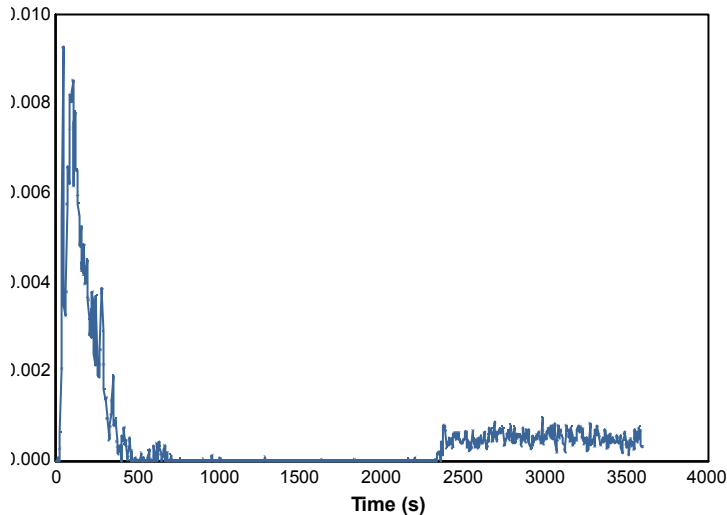
Heat release rate (kW/m²)



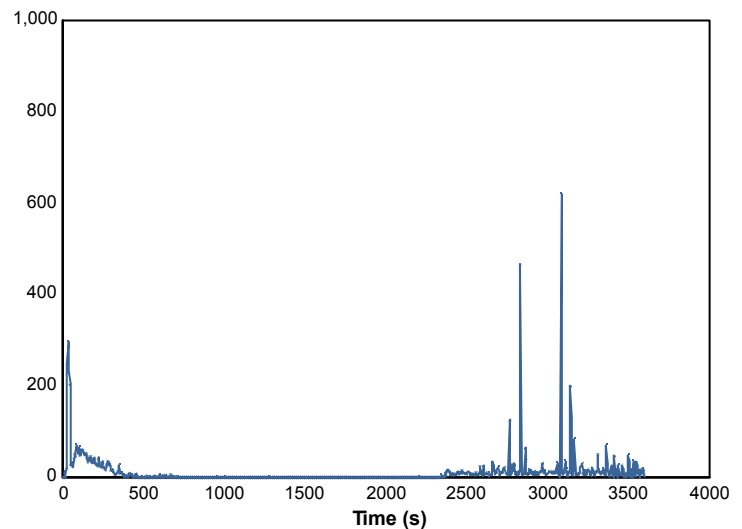
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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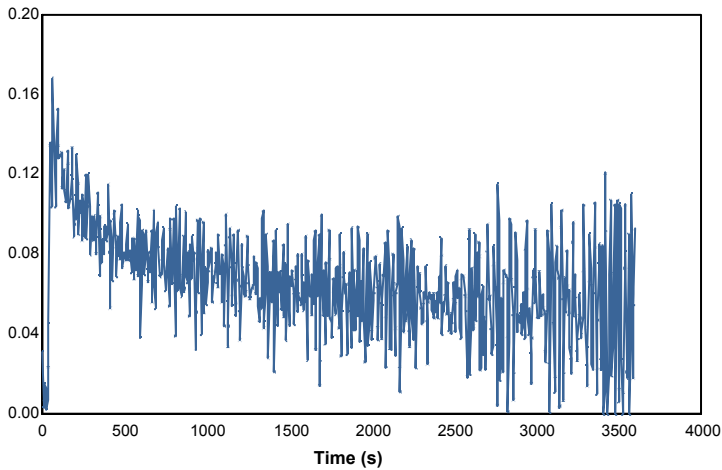
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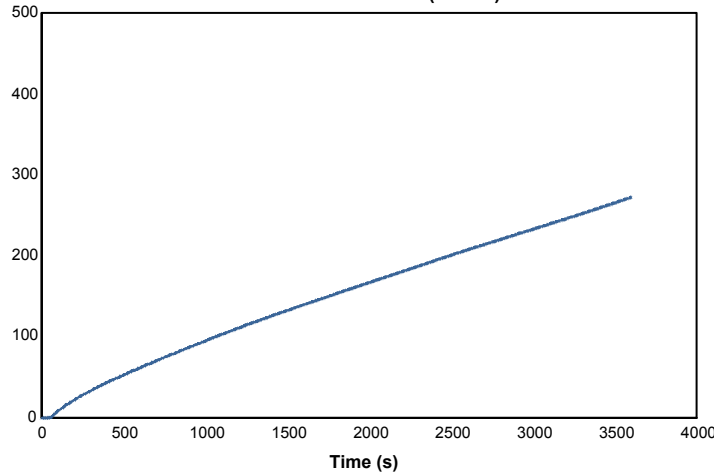
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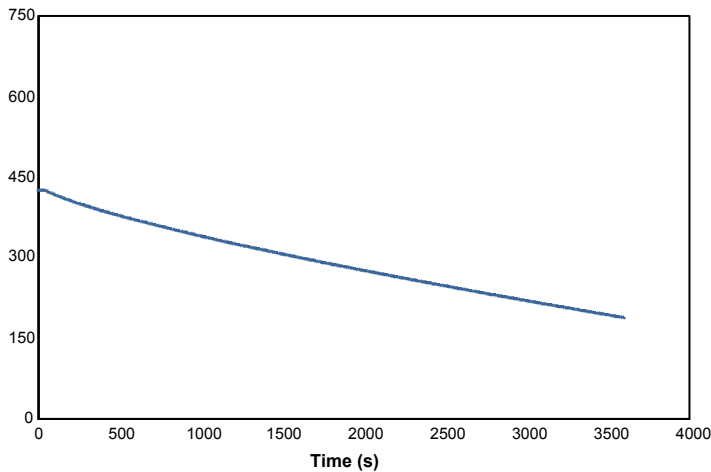
Mass loss rate (g/s)



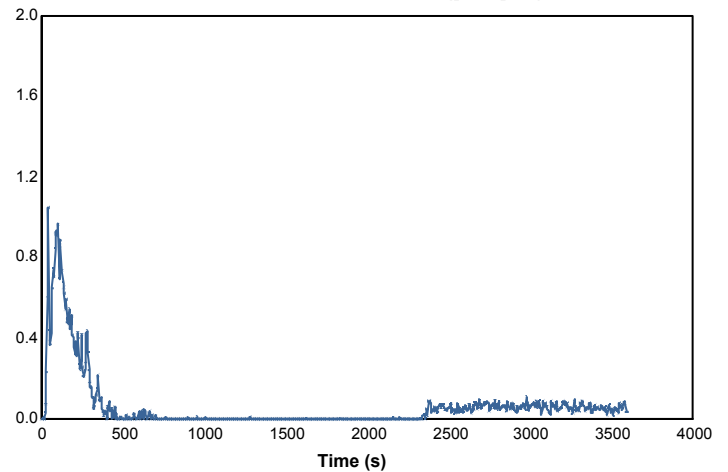
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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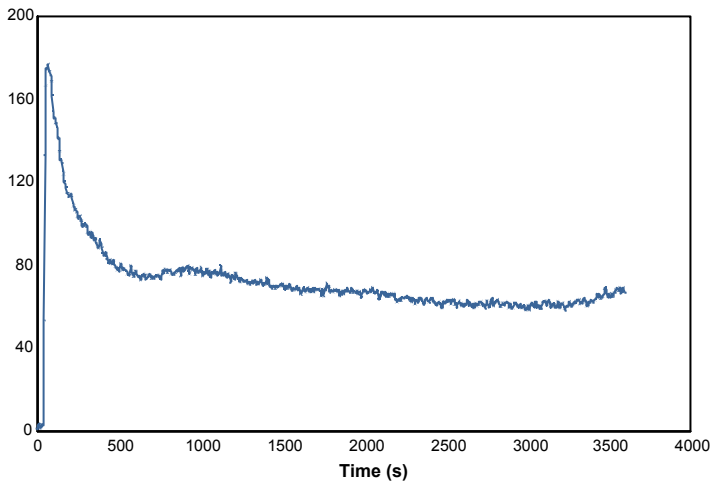
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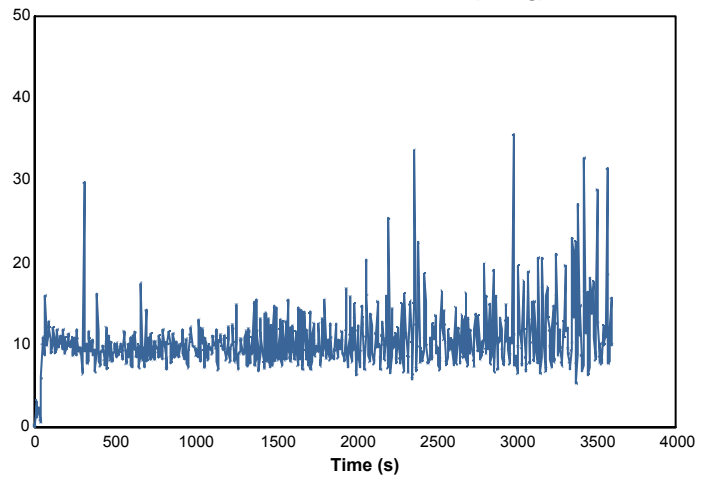
Test Number : 17-001799
Issue Date : 08/05/2017
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Specimen : 2

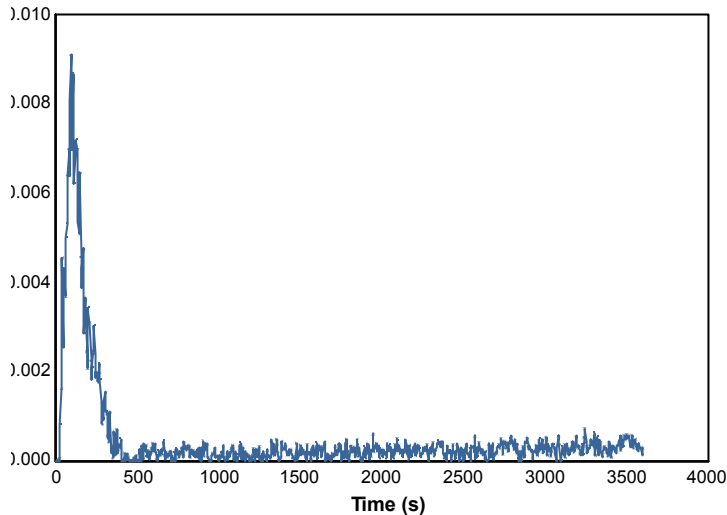
Heat release rate (kW/m²)



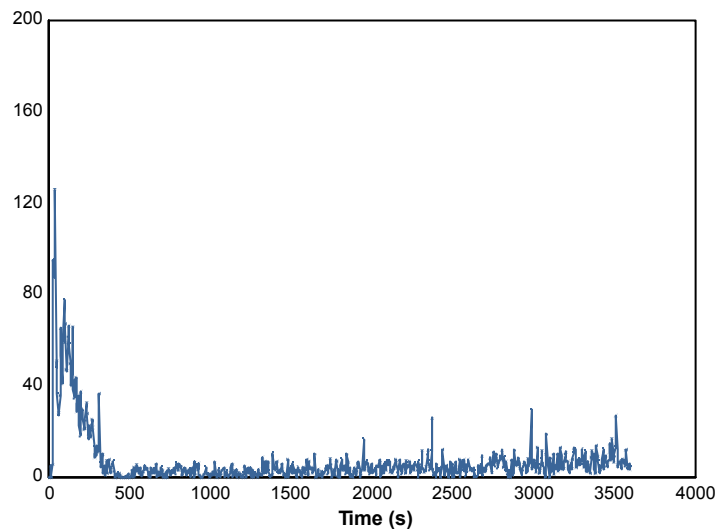
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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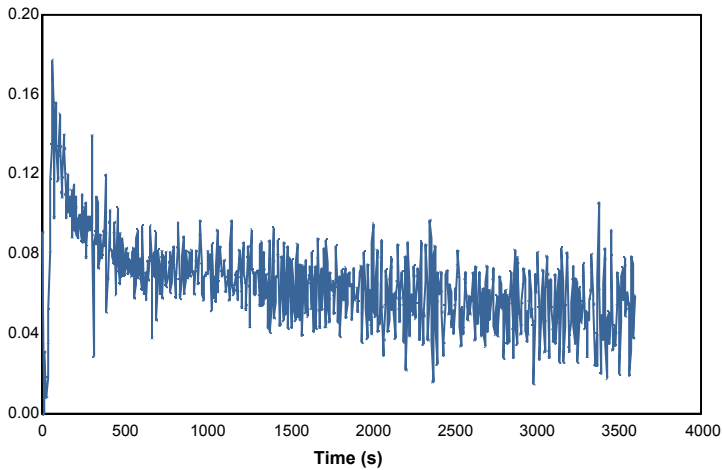
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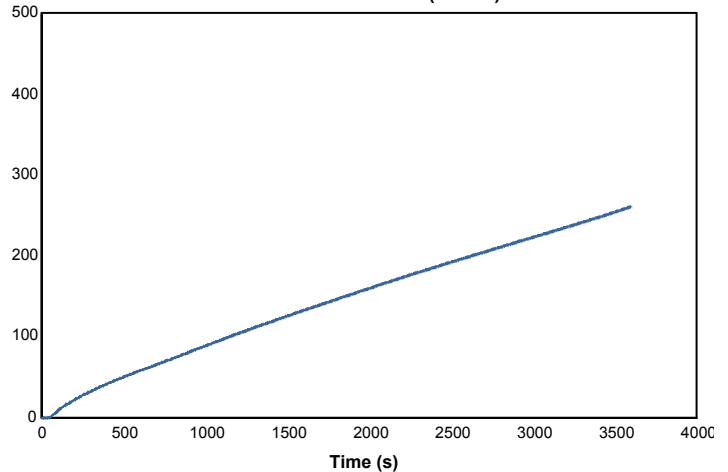
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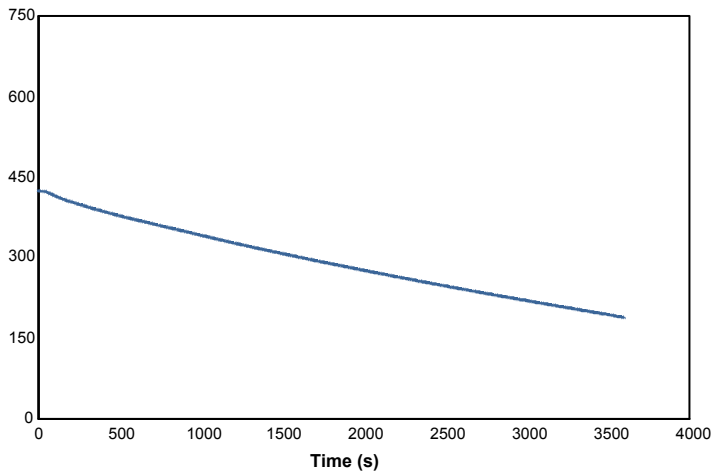
Mass loss rate (g/s)



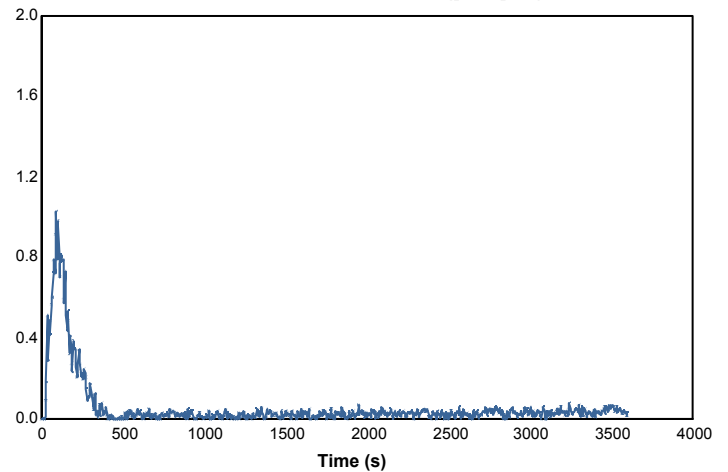
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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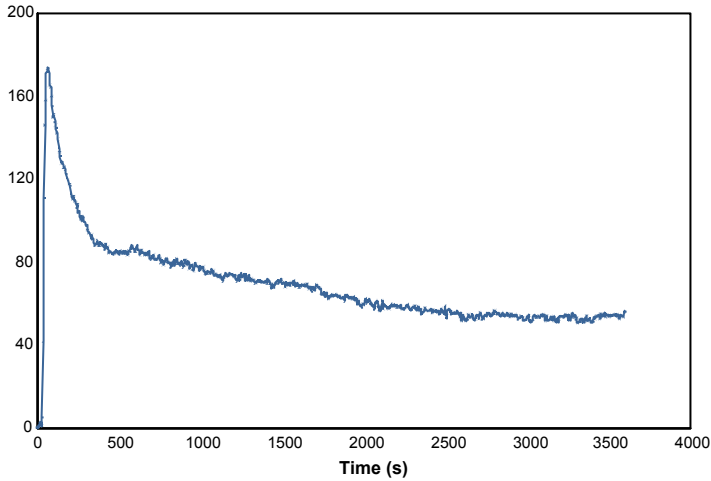
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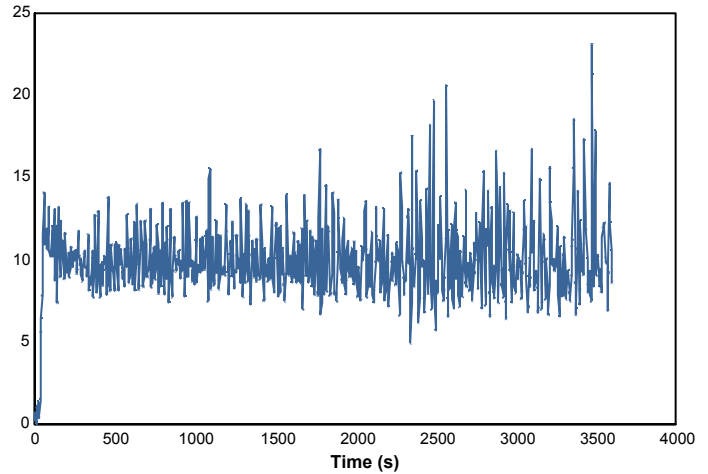
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Specimen : 3

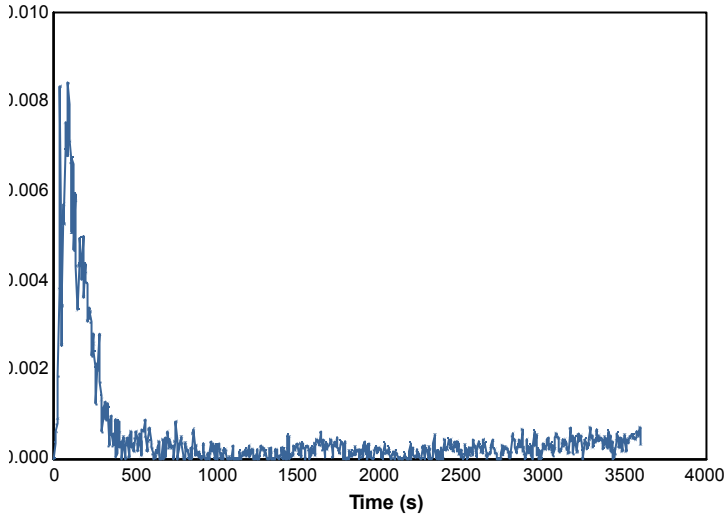
Heat release rate (kW/m²)



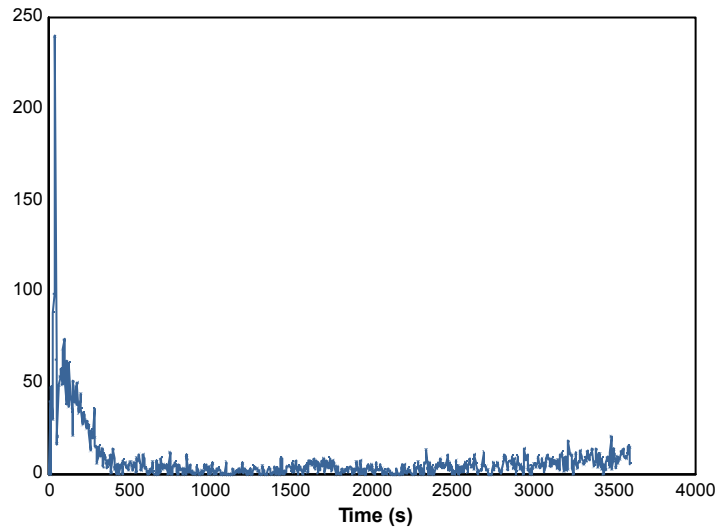
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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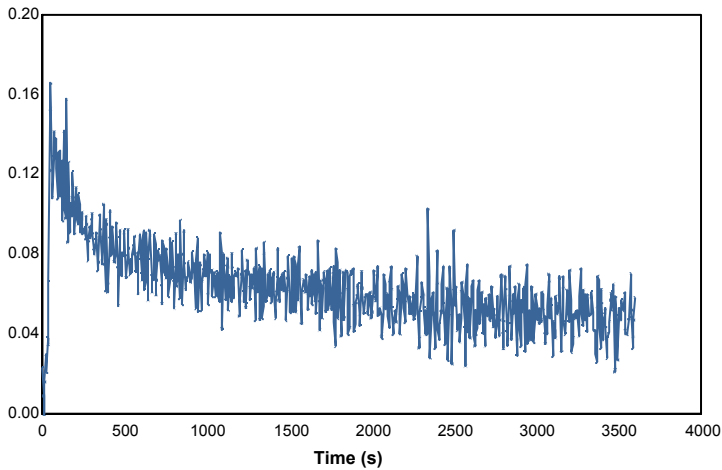
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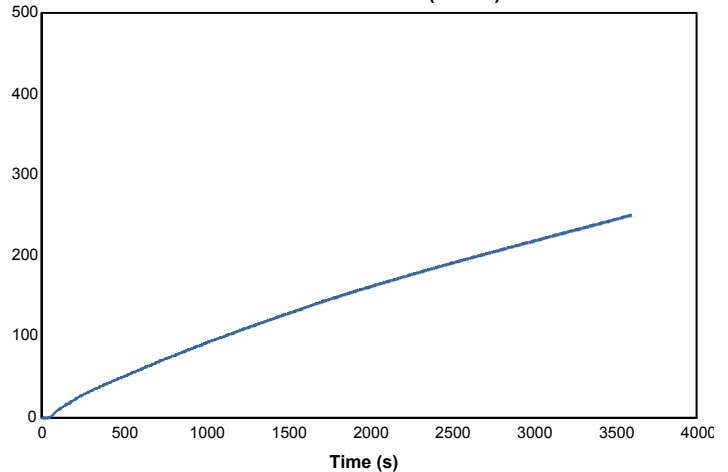
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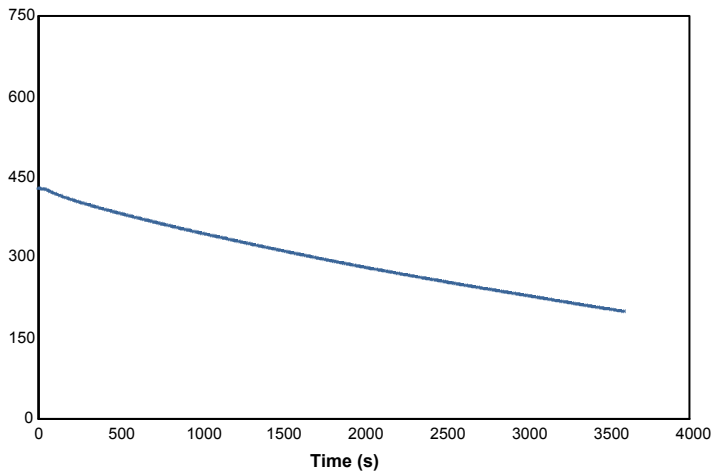
Mass loss rate (g/s)



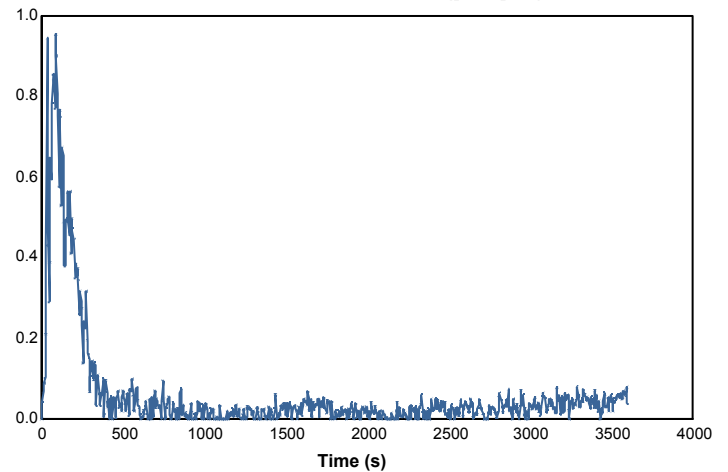
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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