

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

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 19-006556
Issue Date : 23/12/2019
Print Date : 23/12/2019

Sponsor Product Clients Ref : "LG Hausys HI-MACS"
Rigid Panel
Colour : White
Nominal Composition : Acrylic Solid Surface
Nominal Mass per Unit Area/Density : 1750kg/m3
Nominal Thickness : 12mm

Product Group Number Classification : 3
Average Specific Extinction Area : 39.1 m²/kg



Fiona McDonald
Testing Technologist

40369

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TEST REPORT

Client : The Laminex Group
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Test Number : 19-006556
Issue Date : 23/12/2019
Print Date : 23/12/2019
Order Number : 3455941

Sample Description Clients Ref : "LG Hausys HI-MACS"
Rigid Panel
Colour : White
Nominal Composition : Acrylic Solid Surface
Nominal Mass per Unit Area/Density : 1750kg/m³
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 18/12/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	55.0	65.2	51.3	57.2	kW/m ²
Average Specific extinction area	0.0	75.5	41.8	39.1	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	334	188	198	240	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	98.6	91.6	91.9	94.0	kW/m ²
Average heat at 60 s	87.7	76.9	80.3	81.6	kW/m ²
Average heat at 180 s	90.8	80.6	82.3	84.6	kW/m ²
Average heat at 300 s	91.9	81.1	82.7	85.2	kW/m ²

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Order Number : 3455941

Total heat released	180.1	222.6	174.8	192.5	MJ/m ²
Average effective heat of combustion	14.8	16.7	13.1	14.9	MJ/kg
Initial thickness	14	14	14	14.0	mm
Initial mass	208.7	209.9	208.7	209.1	g
Mass at sustained flaming	198.6	207.8	206.8	204.4	g
Mass remaining	110.1	101.5	100.6	104.1	g
Mass percentage pyrolysed	47.3	51.6	51.8	50.2	%
Mass loss	12.2	13.4	13.3	13.0	kg/m ²
Average rate of mass loss	3.7	3.9	3.9	3.9	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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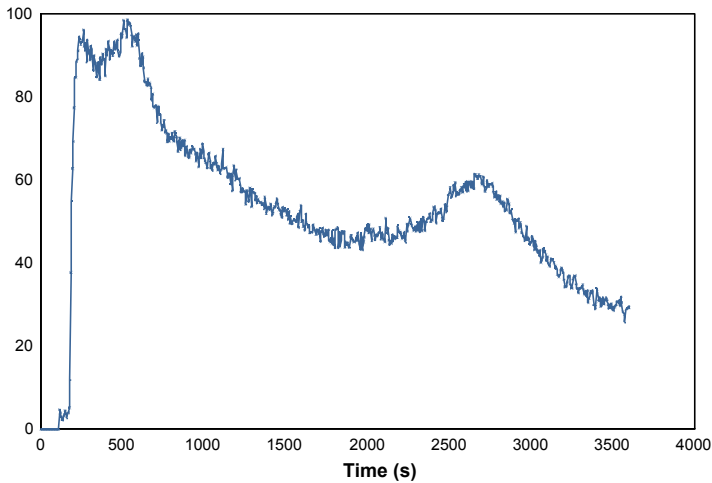
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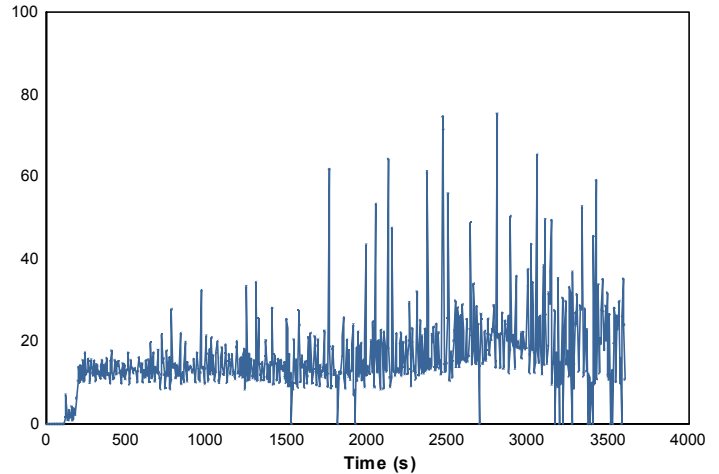
Test Number : 19-006556
Issue Date : 23/12/2019
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Order Number : 3455941

Specimen : 1

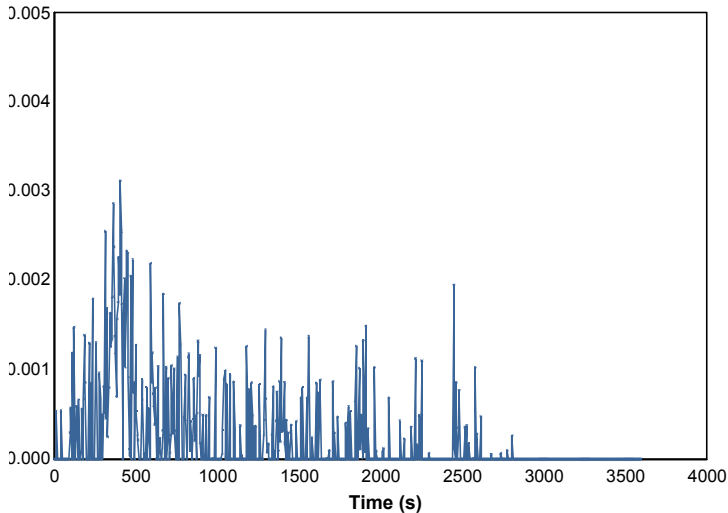
Heat release rate (kW/m²)



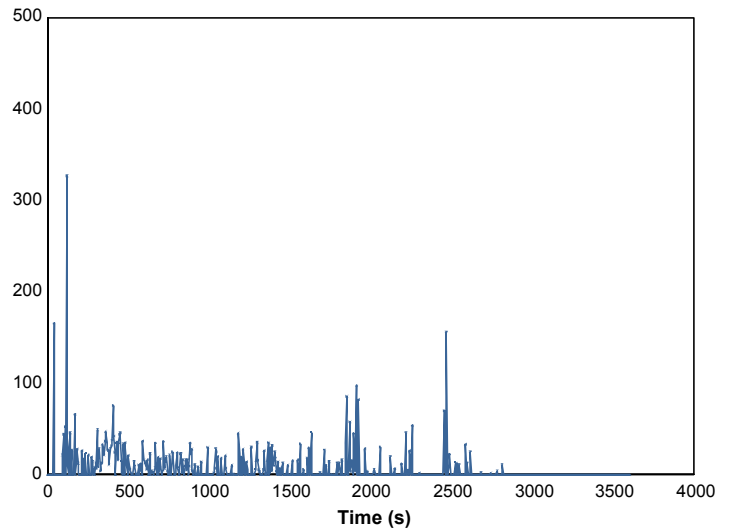
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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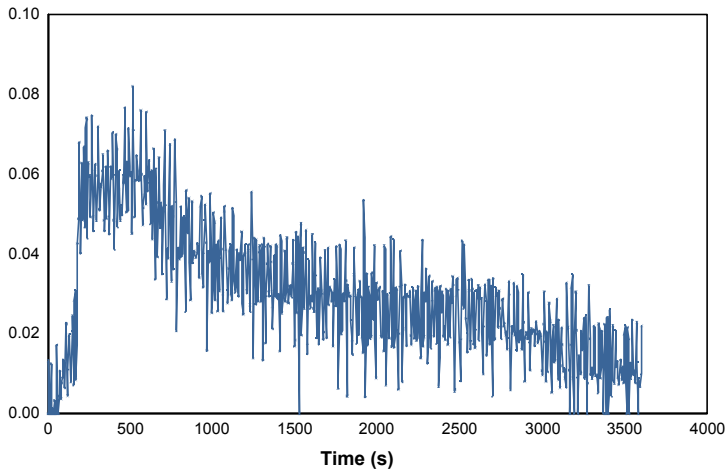
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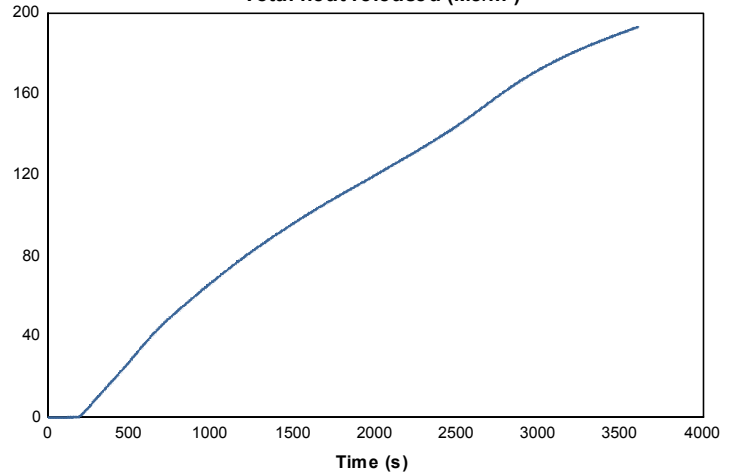
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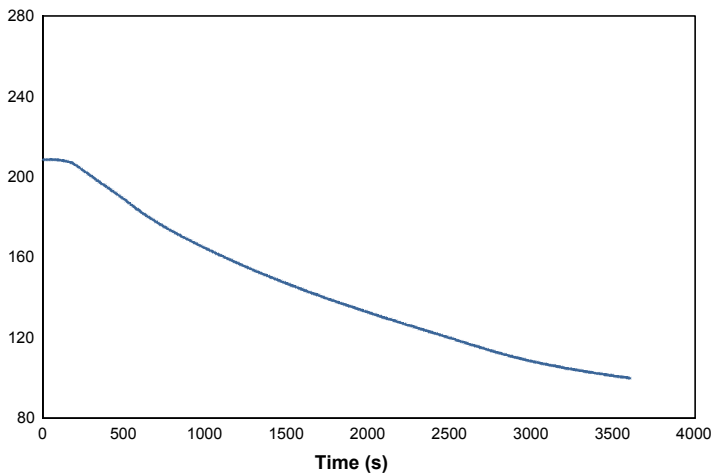
Mass loss rate (g/s)



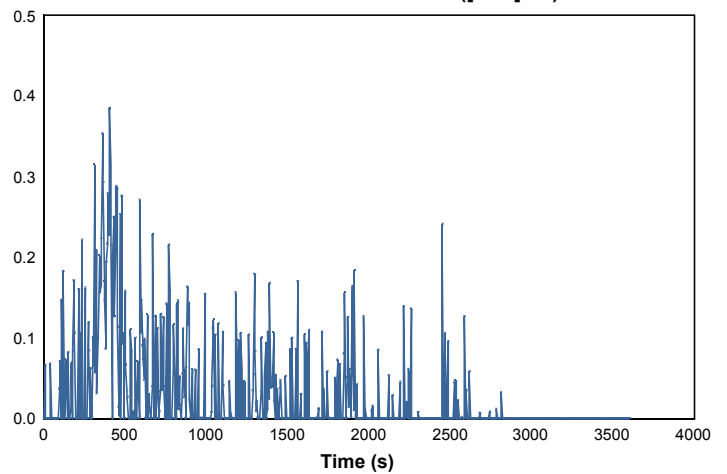
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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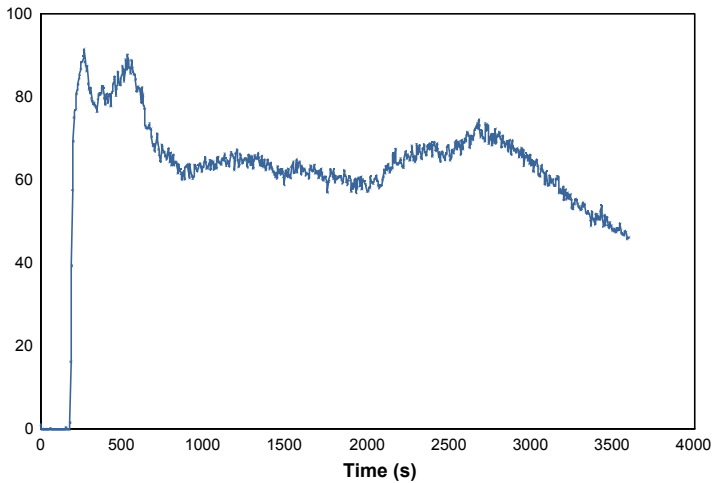
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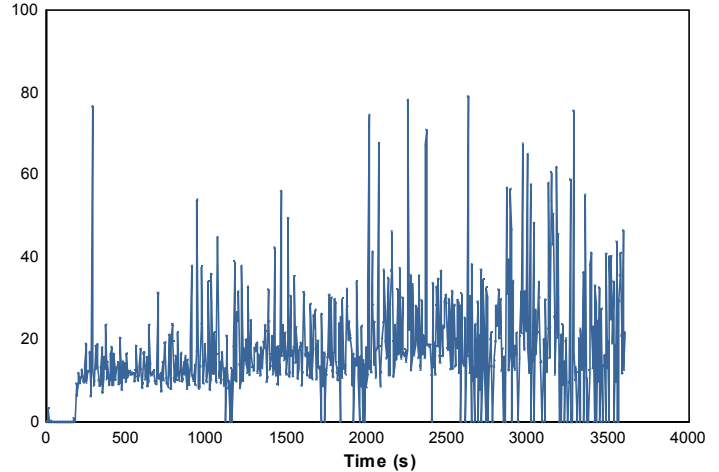
Test Number : 19-006556
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Print Date : 23/12/2019
Order Number : 3455941

Specimen : 2

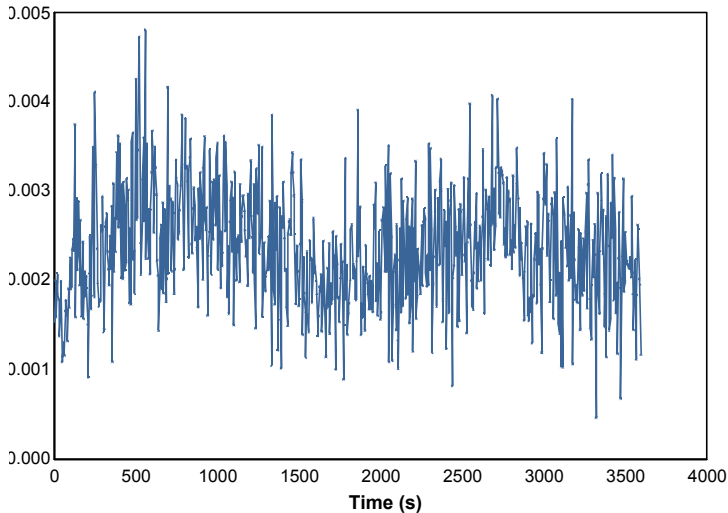
Heat release rate (kW/m²)



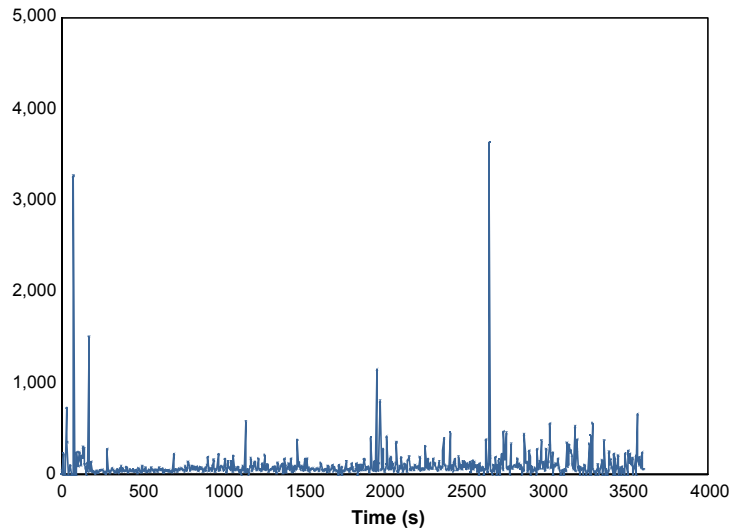
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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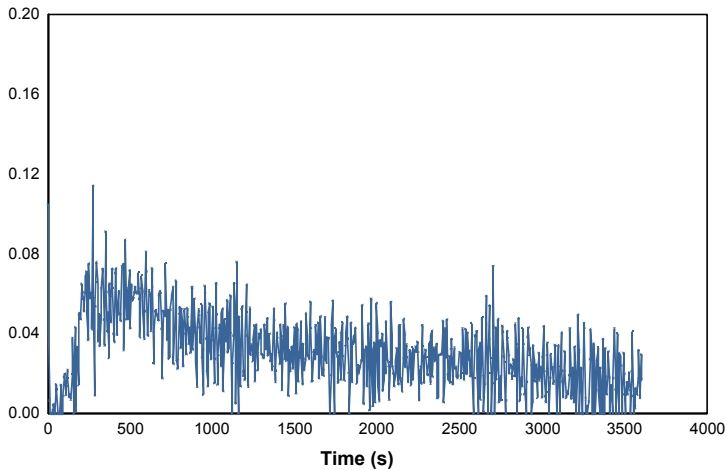
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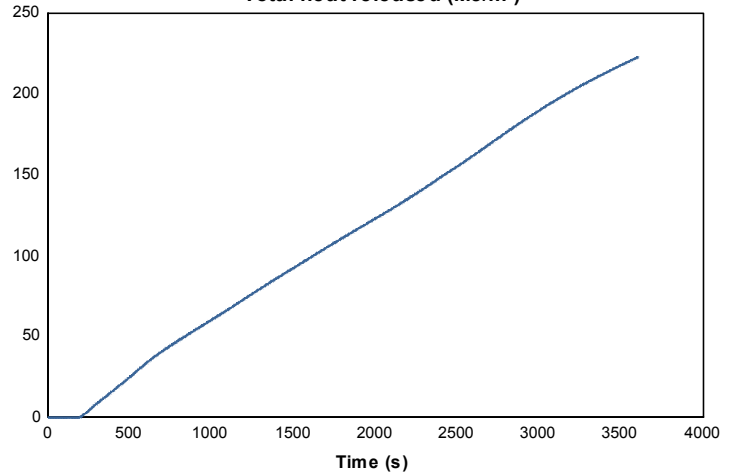
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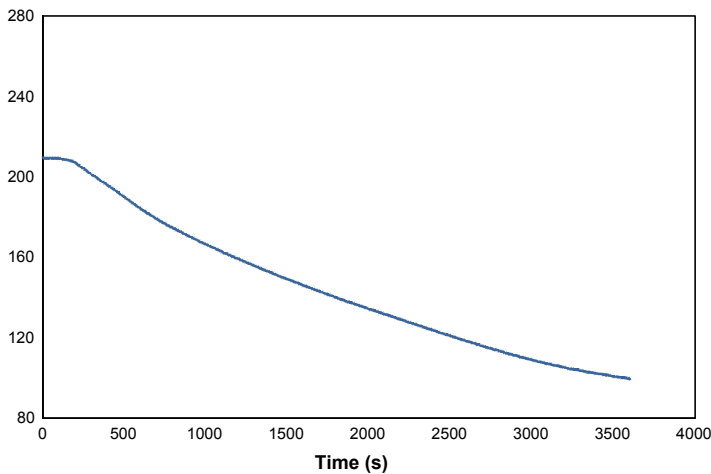
Mass loss rate (g/s)



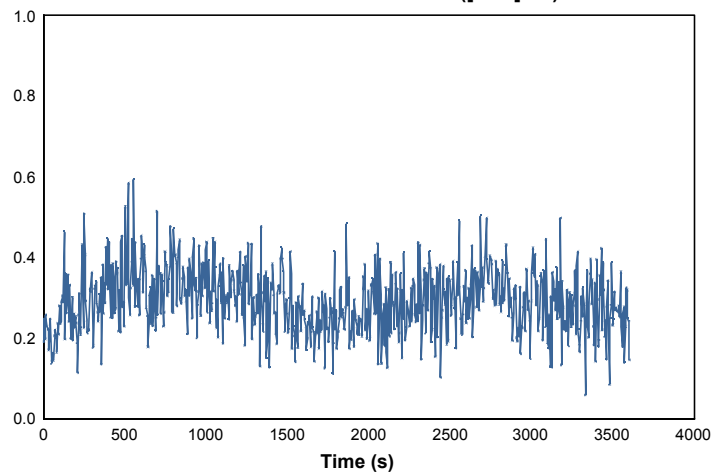
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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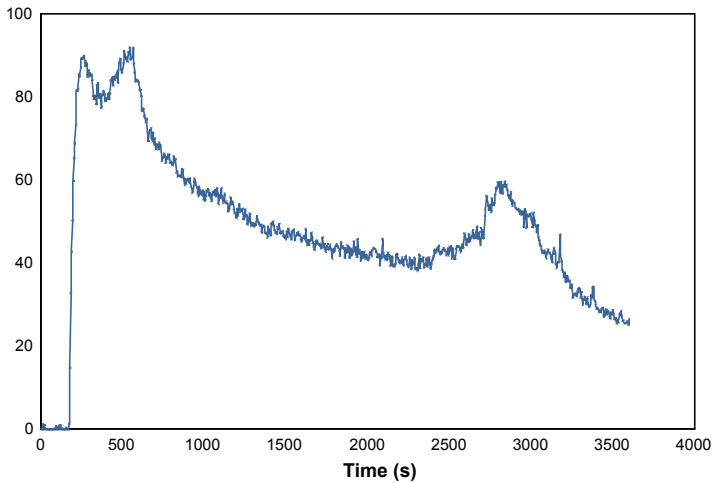
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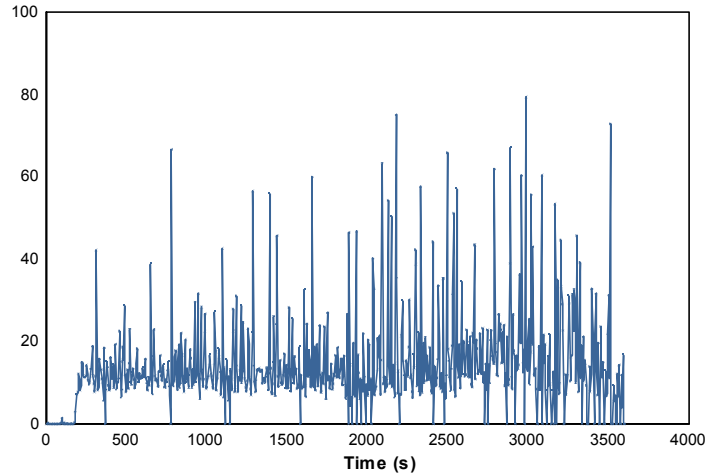
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Specimen : 3

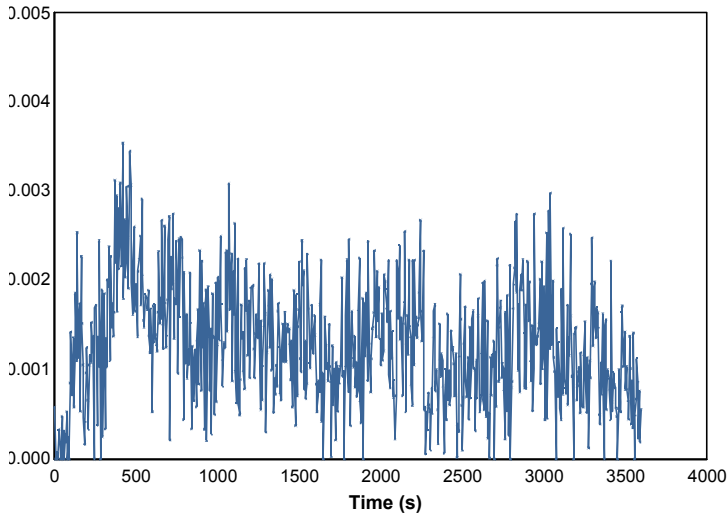
Heat release rate (kW/m²)



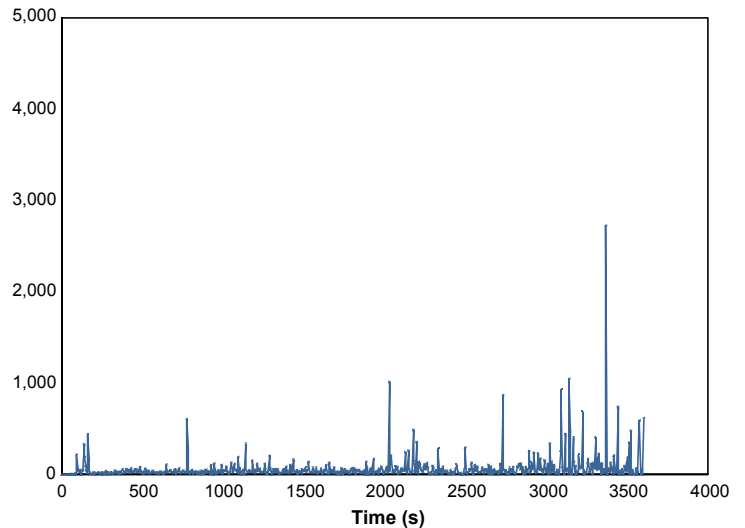
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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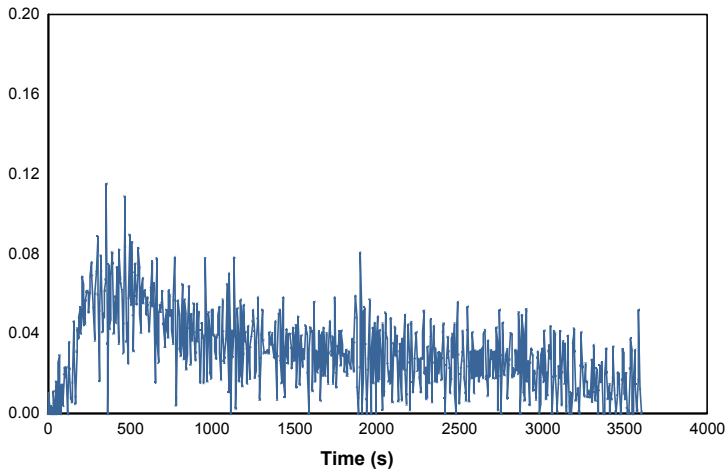
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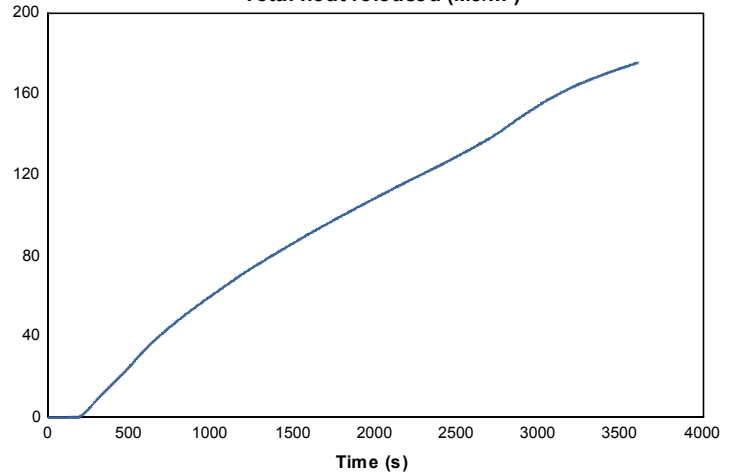
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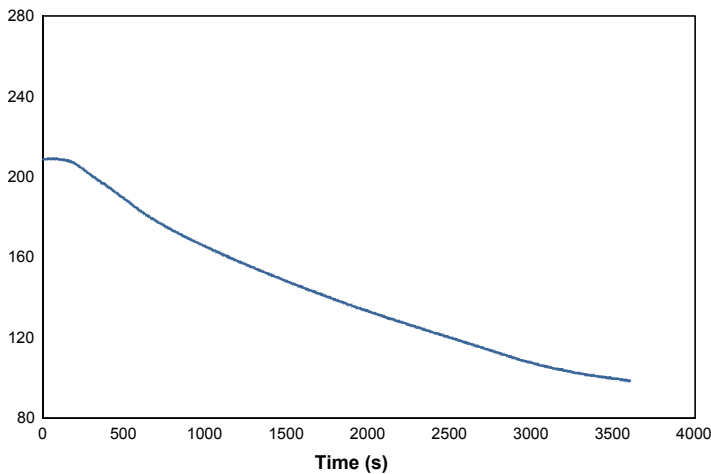
Mass loss rate (g/s)



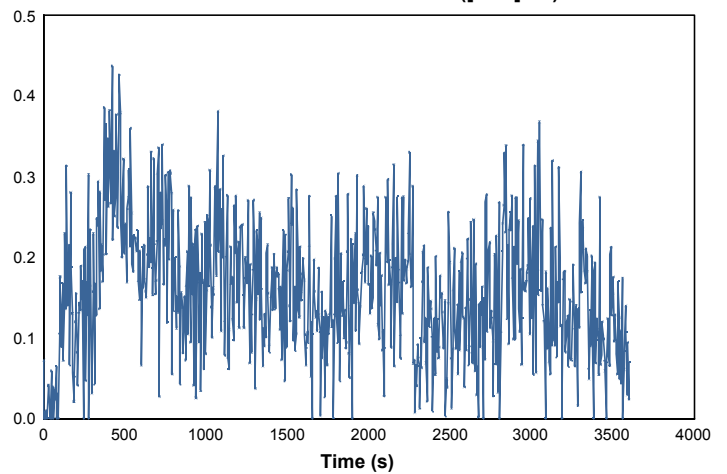
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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