

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 : Wilsonart Australia
Unit 3B
13 - 15 Forrester Street
Kingsgrove NSW 2208

Test Number : 15-005868
Issue Date : 04/12/2015
Print Date : 8/12/2015

Sample Description Clients Ref : "Wilsonart Metal Laminate"
Rigid panel
Colour : Silver
End Use : Walls, Ceilings, Furniture
Nominal Composition : Metal with a phenolic resin binding
Nominal Mass per Unit Area/Density : 1.4kg/m²
Nominal Thickness : 1mm

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

	Specimen				Mean	
	1	2	3	fti		
Average Heat Release Rate	fti	fti	fti	fti	kW/m ²	
Average Specific extinction area	8.9	24.5	27.6	20.3	m ² /kg	

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen				Mean	
	1	2	3	fti		
Irradiance	50	50	50	50	kW/m ²	
Exhaust flow rate	24	24	24	24	L/sec	
Time to sustained flaming	fti	fti	fti	fti	sec	
Test duration	600	600	600	600	sec	

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- Chemical Testing of Textiles & Related Products : Accreditation No. 983
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985
- Heat & Temperature Measurement : Accreditation No. 1356

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Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	97.5	99.2	98.7	98.5	g
Mass remaining	87.6	88.7	88.3	88.2	g
Mass percentage pyrolysed	10.2	10.5	10.5	10.4	%
Mass loss	9.9	10.5	10.4	10.3	g
Average rate of mass loss	1.9	2.0	2.0	1.9	g/m ² .s

fti = failed to ignite

Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2 (i)

This product has a release rate of less than 50 kW/m². The formulas given in the Building Code of Australia do not allow the calculation of a group in these circumstances. A product with very low heat release rates like this product is classified as a group 1 material or better according to advise from the Australian Building Codes Board.

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 reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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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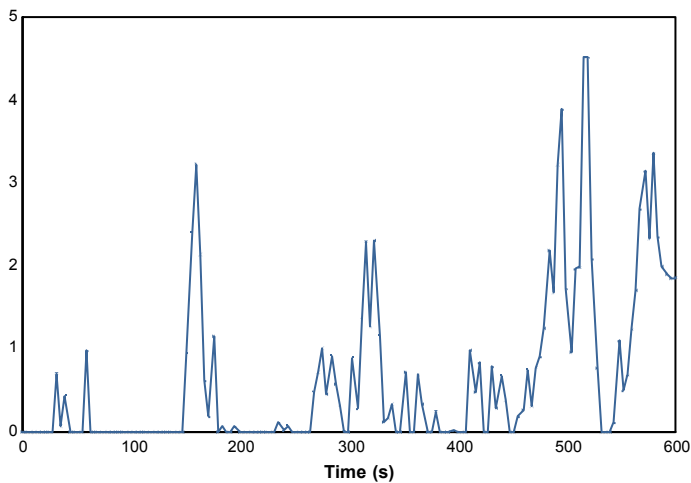
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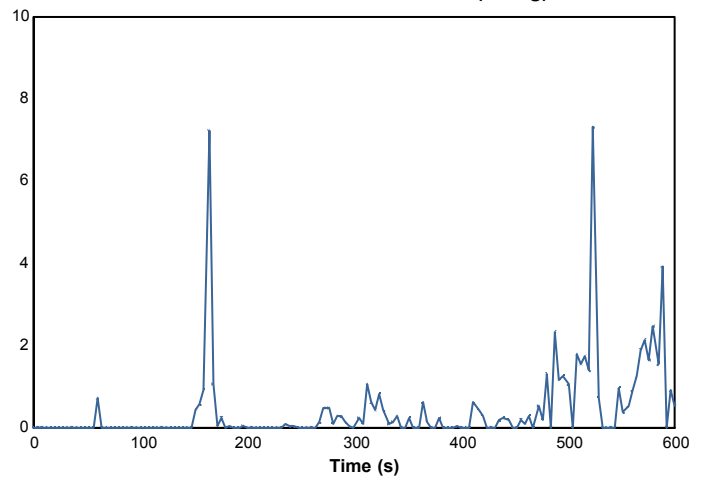
Test Number : 15-005868
Issue Date : 04/12/2015
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Specimen : 1

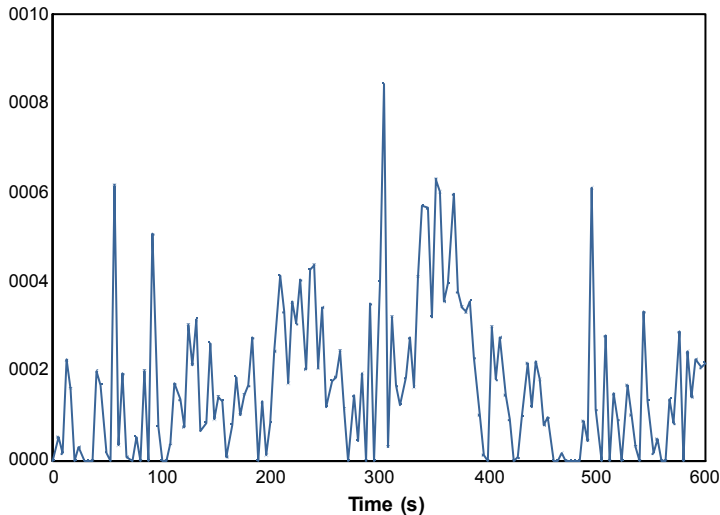
Heat release rate (kW/m²)



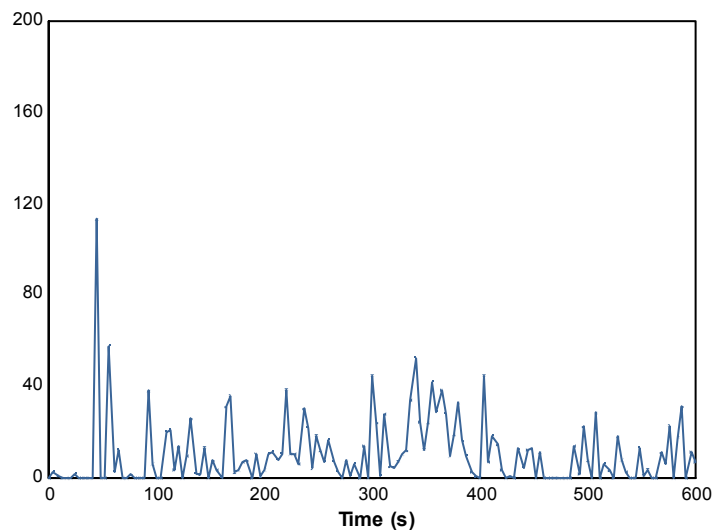
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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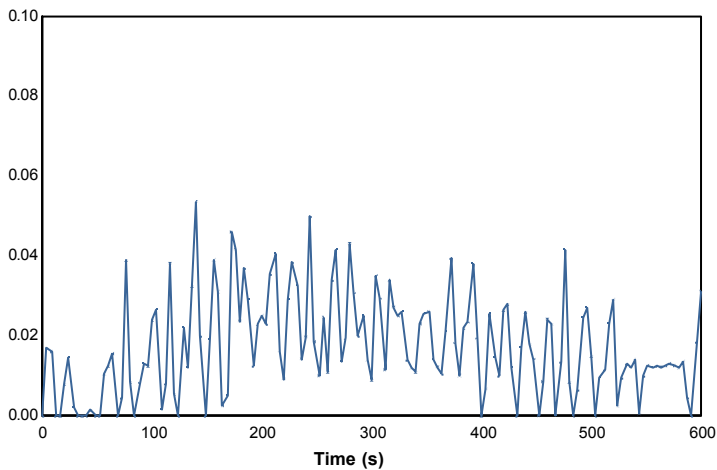
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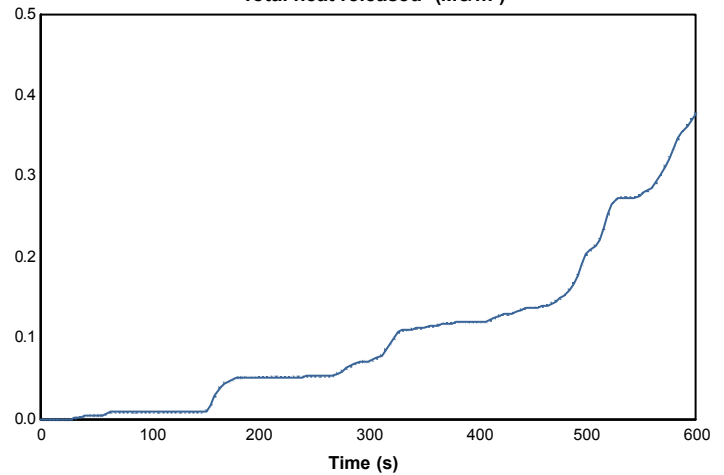
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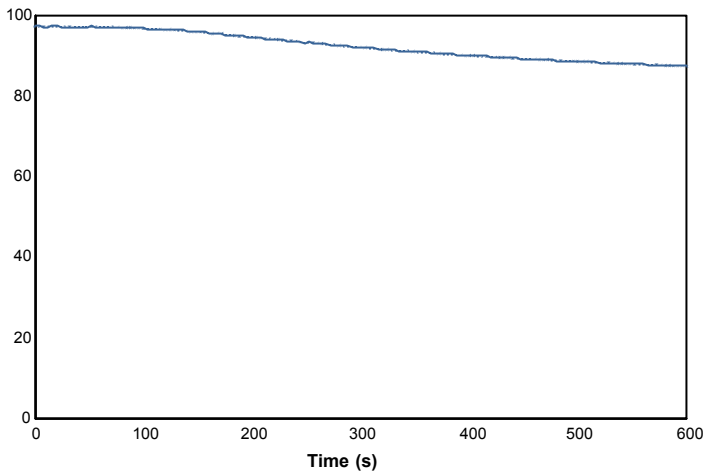
Mass loss rate (g/s)



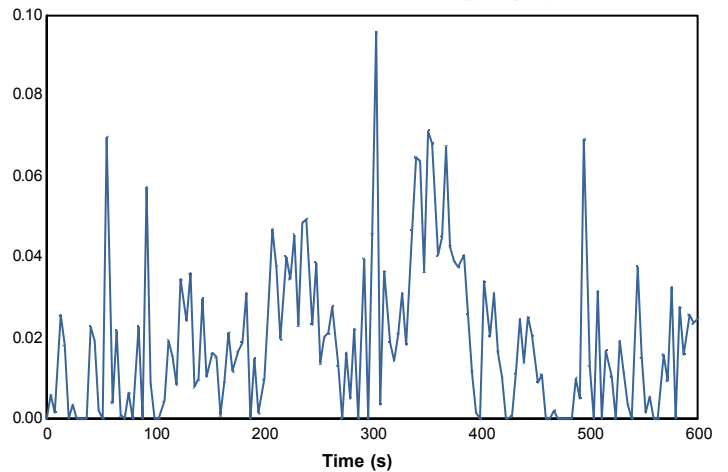
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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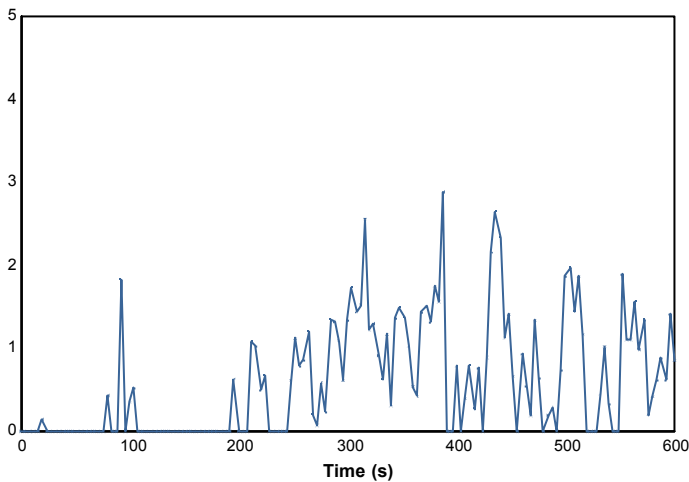
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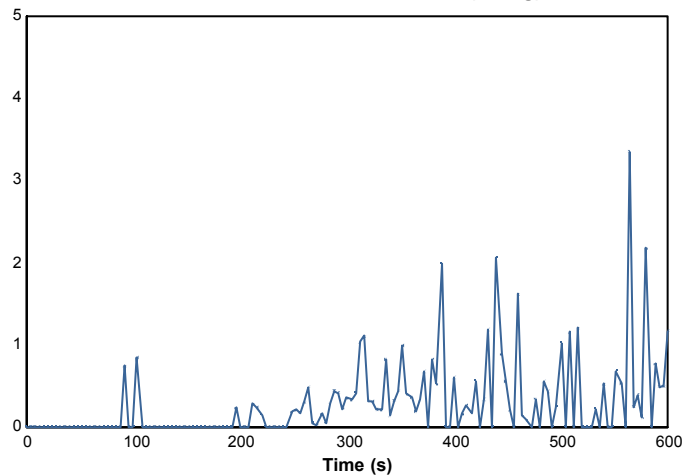
Test Number : 15-005868
Issue Date : 04/12/2015
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Specimen : 2

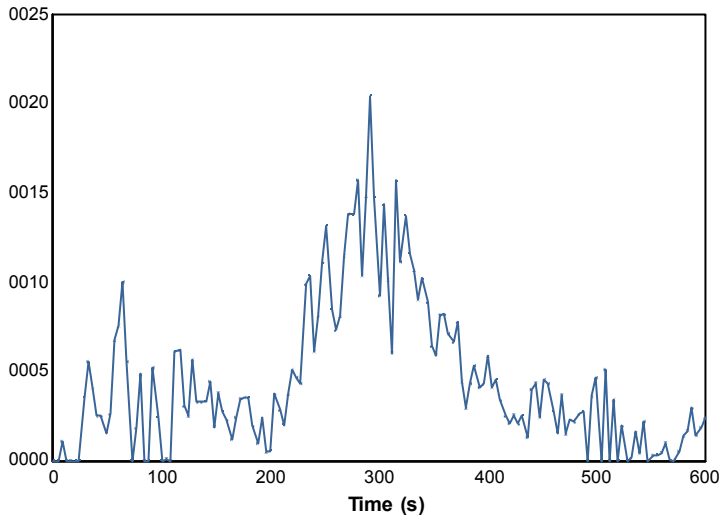
Heat release rate (kW/m²)



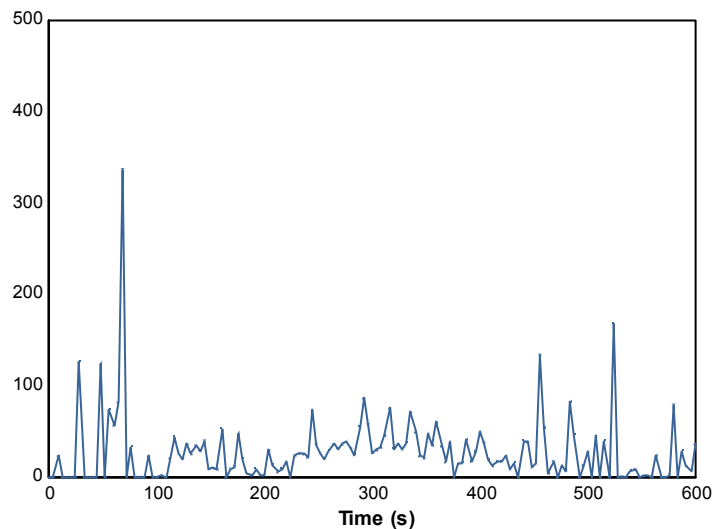
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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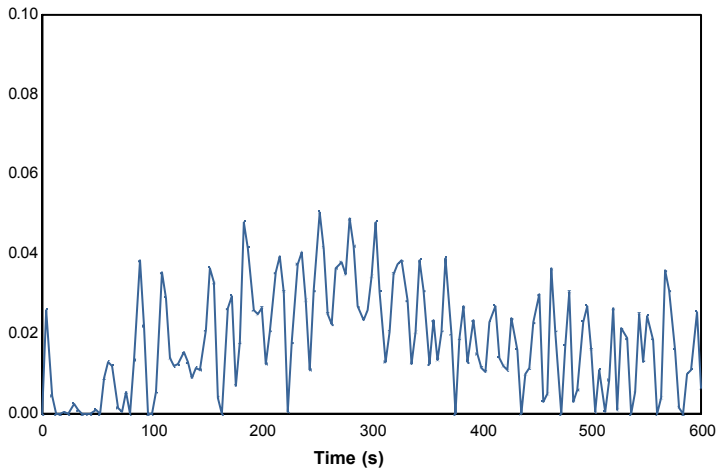
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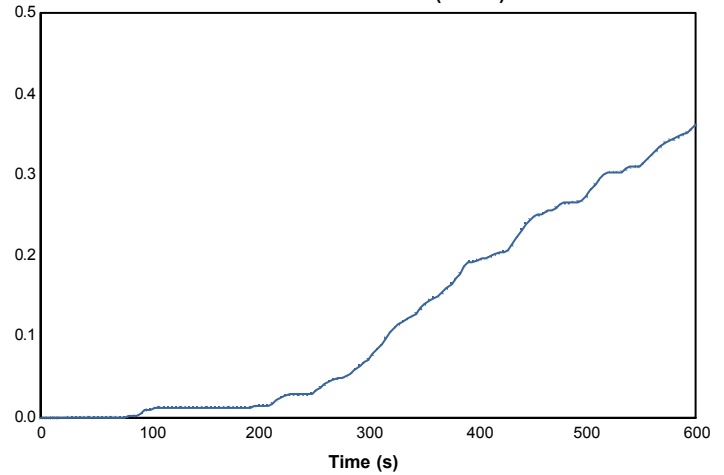
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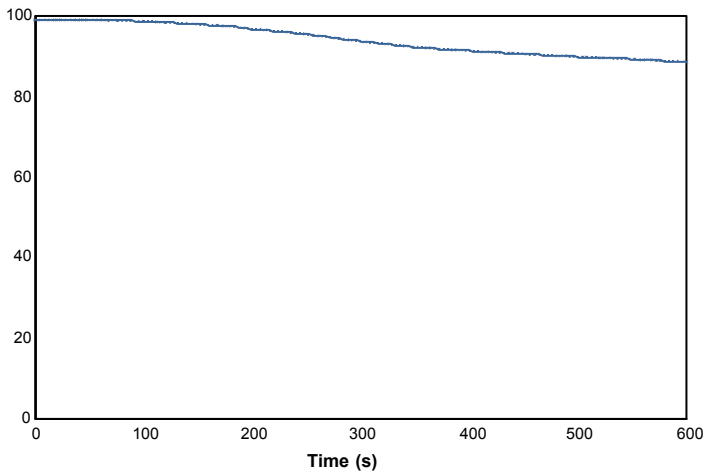
Mass loss rate (g/s)



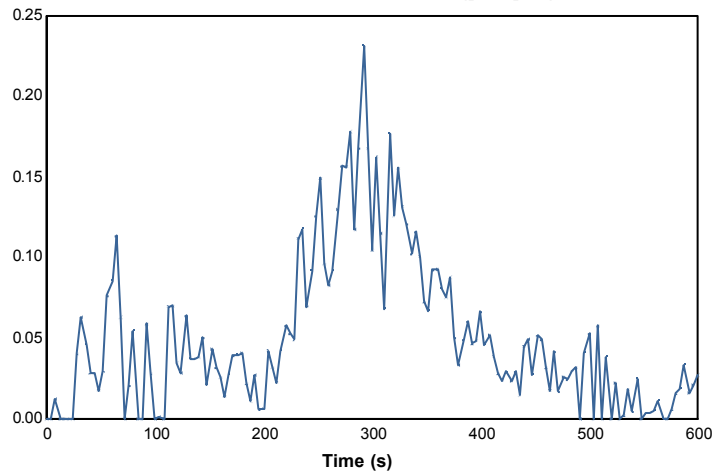
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²)



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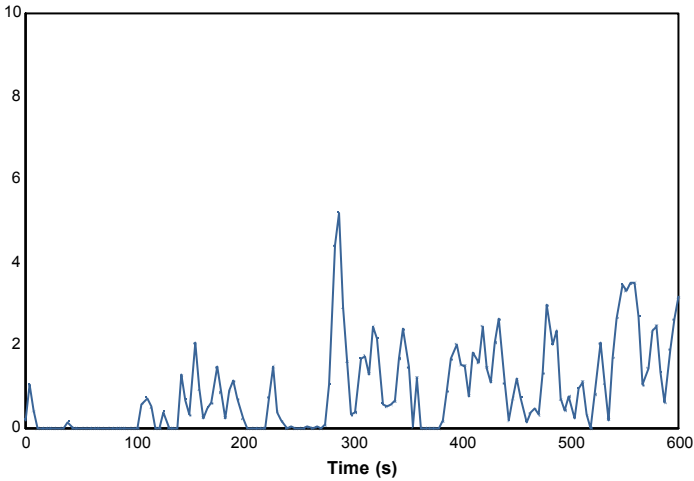
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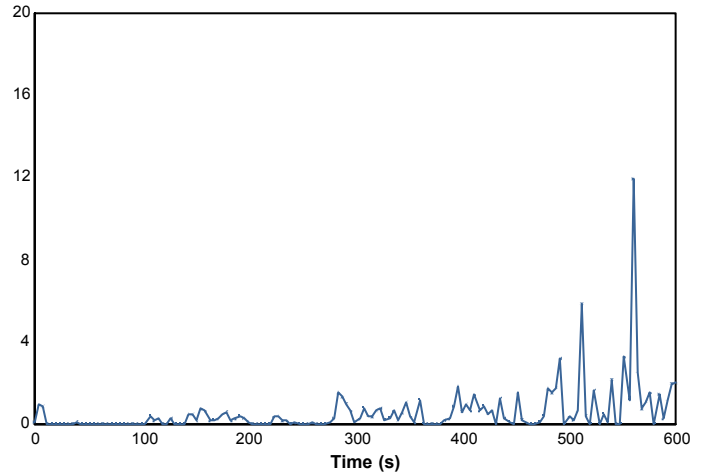
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Specimen : 3

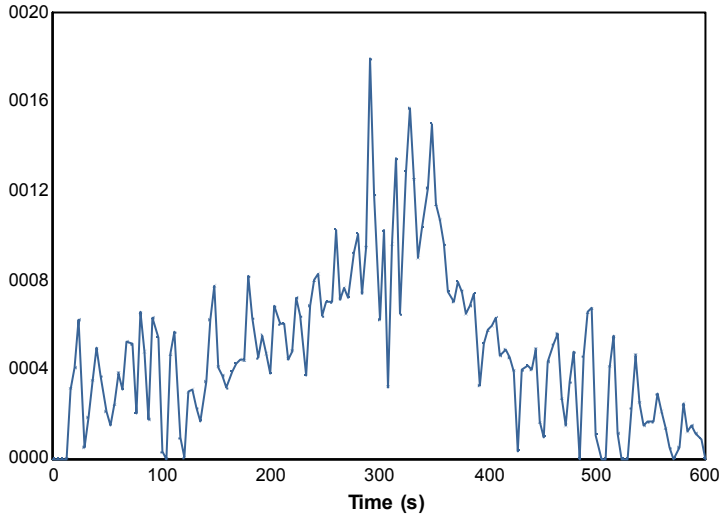
Heat release rate (kW/m²)



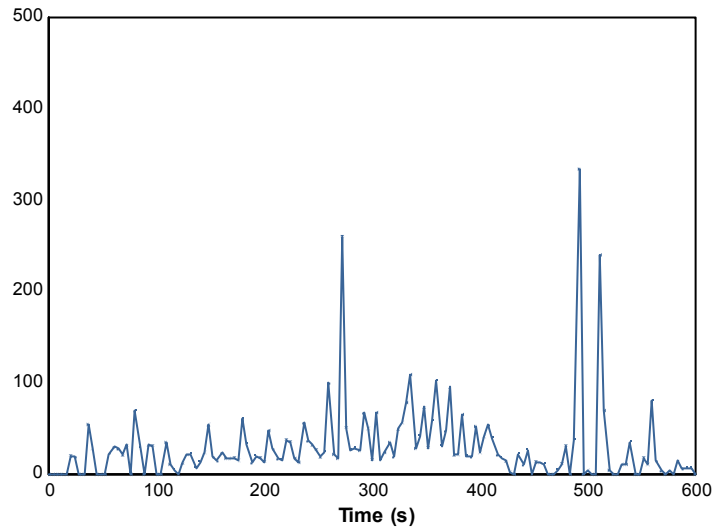
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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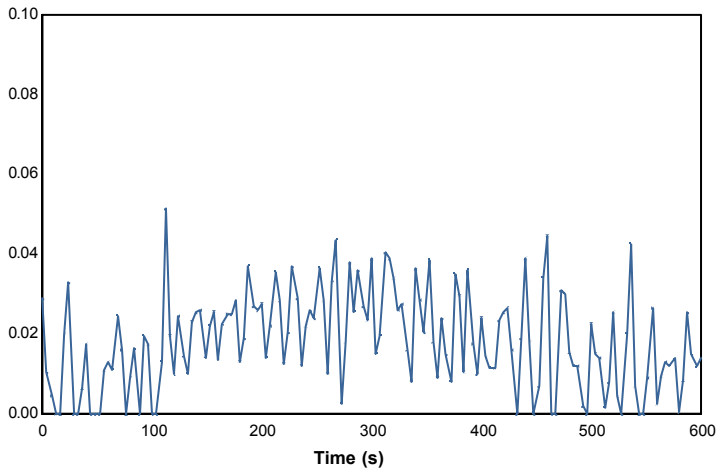
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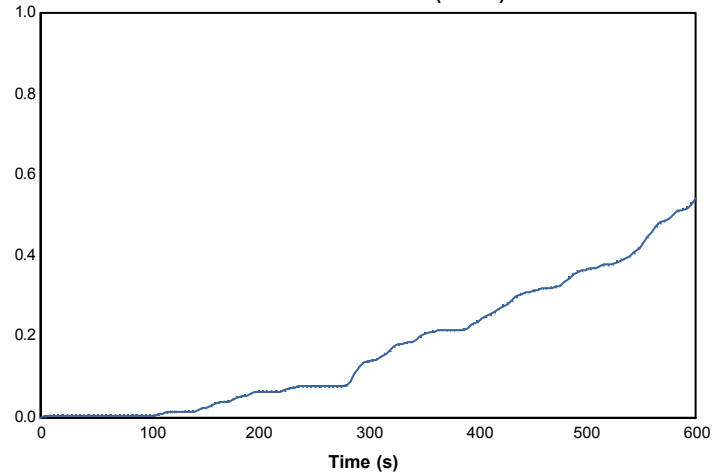
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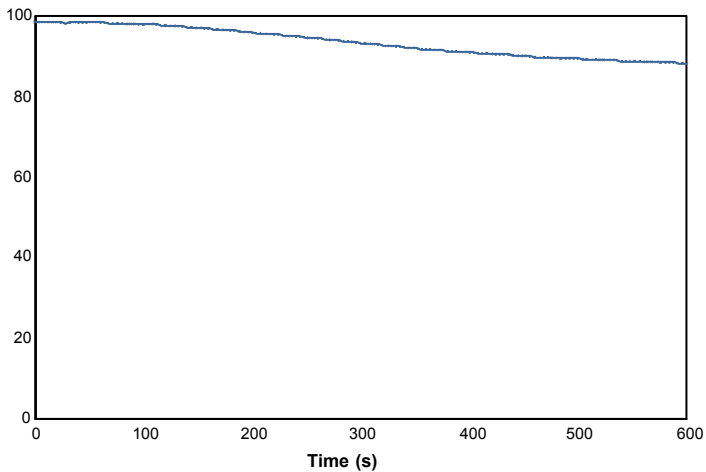
Mass loss rate (g/s)



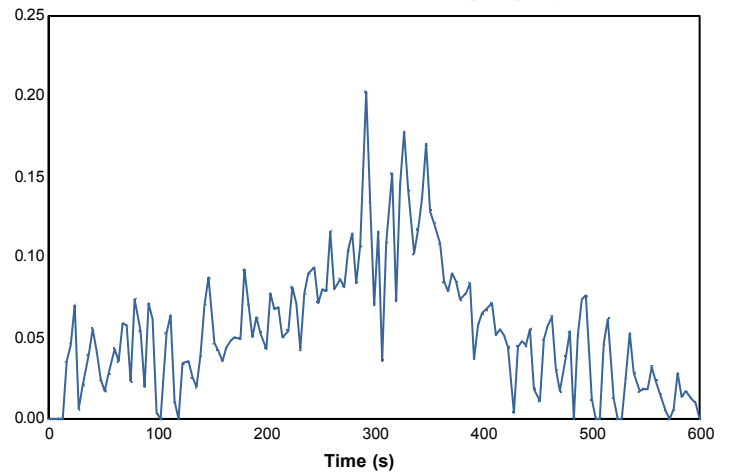
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²)



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