

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 : An Cuong High-Tech Building Materials Joint Stock Company
Lot CN11+CN12, An Dong Industrial Park
Nam Sach District
Hai Duong Province Vietnam

Test Number : 19-000485
Issue Date : 13/03/2019
Print Date : 15/04/2019

Sample Description Clients Ref : 'Anpro Wall Panel'
PVC Wall Panel
Colour : Beige
End Use : Interior Decoration
Nominal Composition : PVC, Ca CO3 Additives
Nominal Mass per Unit Area/Density : 7200 g/m2
Nominal Thickness : 10mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 13/03/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	66.5	63.8	54.8	61.7	kW/m ²
Average Specific extinction area	526.3	491.8	515.7	511.3	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	23	23	23	23	sec
Test duration	640	608	720	656	sec
Peak heat release after ignition	123.5	145.8	146.2	138.5	kW/m ²
Average heat at 60 s	49.3	58.5	51.5	53.1	kW/m ²

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- Mechanical Testing
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APPROVED SIGNATORY

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

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Average heat at 180 s	82.3	84.2	81.5	82.7	kW/m ²
Average heat at 300 s	93.6	96.9	92.2	94.2	kW/m ²
Total heat released	41.1	37.3	38.2	38.9	MJ/m ²
Average effective heat of combustion	12.3	12.4	12.3	12.3	MJ/kg
Initial thickness	10	10	10	10.0	mm
Initial mass	81.4	72.8	74.8	76.3	g
Mass at sustained flaming	81.4	72.8	74.6	76.3	g
Mass remaining	54.4	48.3	49.7	50.8	g
Mass percentage pyrolysed	33.2	33.7	33.5	33.5	%
Mass loss	3.3	3.0	3.1	3.2	kg/m ²
Average rate of mass loss	10.0	10.0	9.8	9.9	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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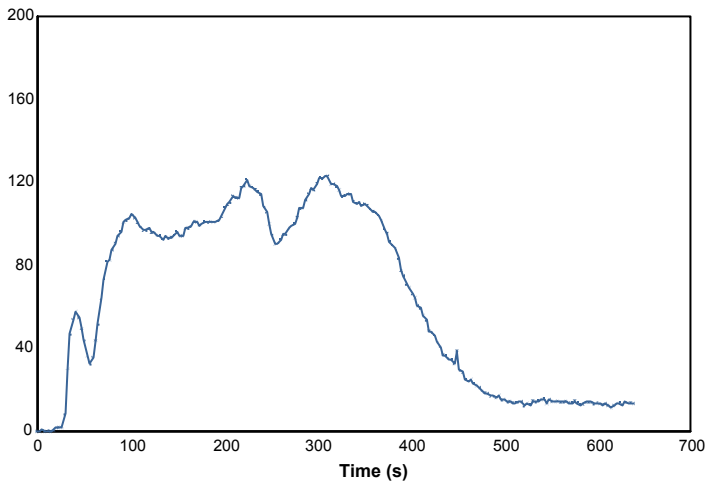
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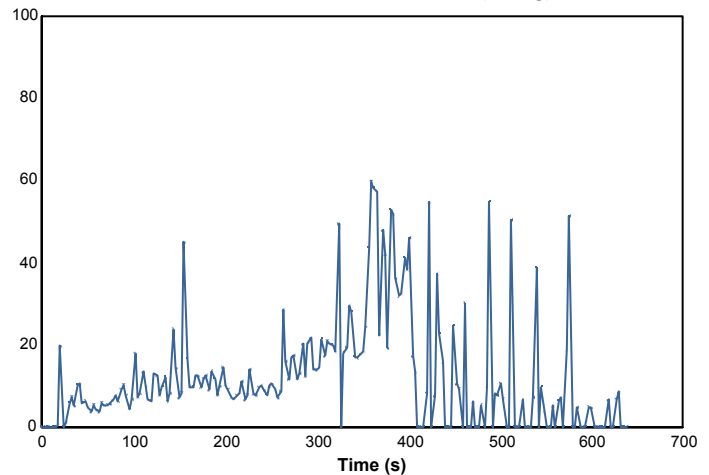
Test Number : 19-000485
Issue Date : 13/03/2019
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Specimen : 1

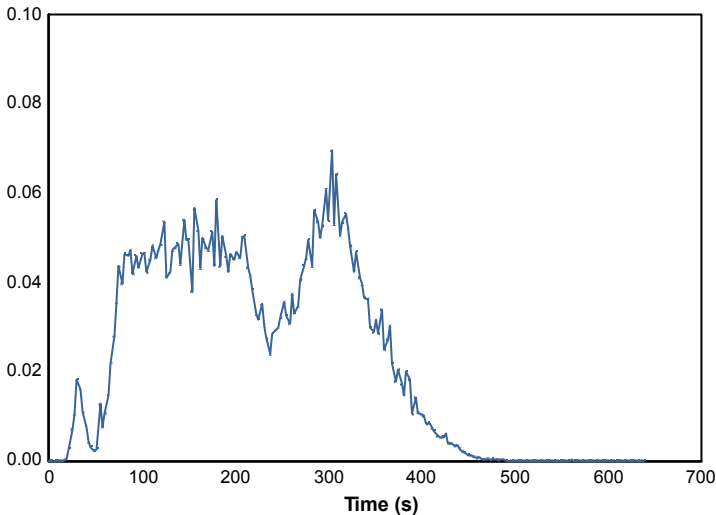
Heat release rate (kW/m²)



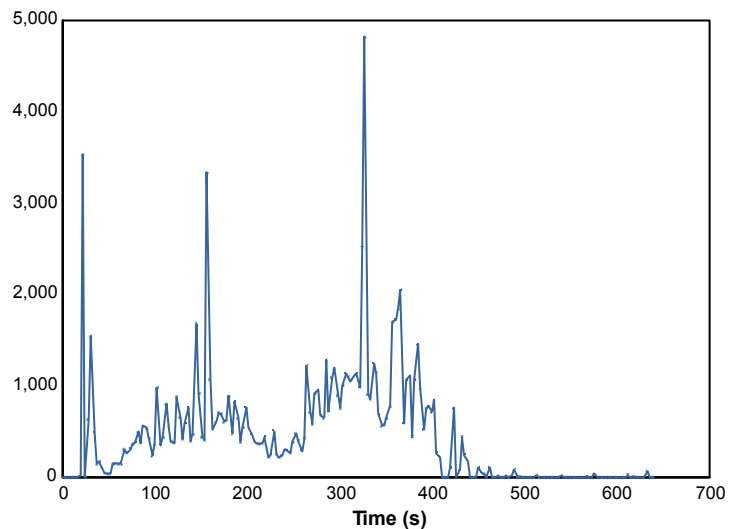
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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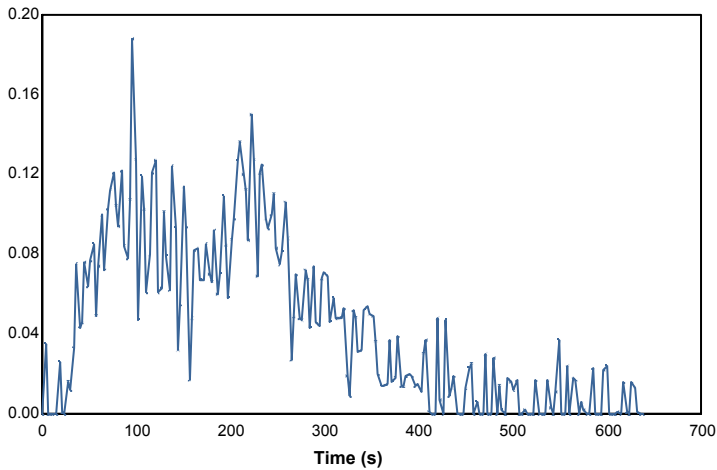
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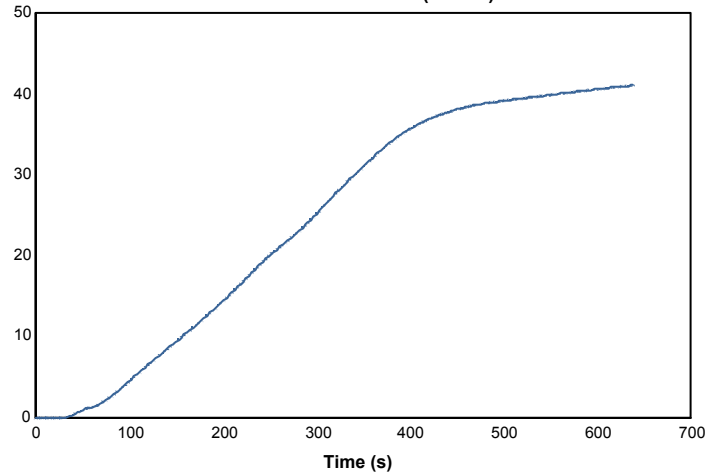
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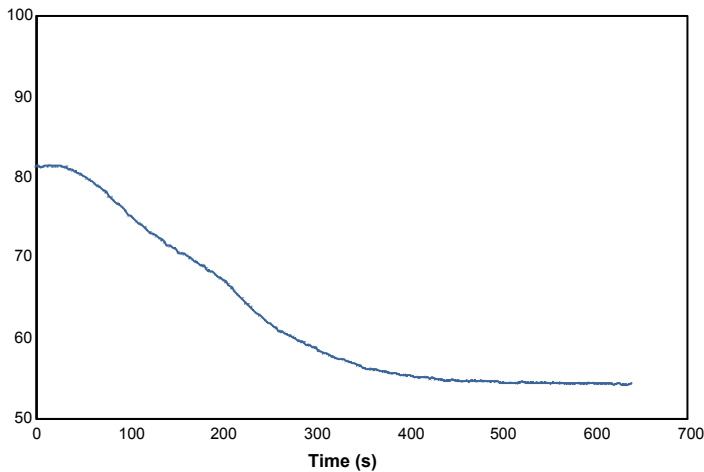
Mass loss rate (g/s)



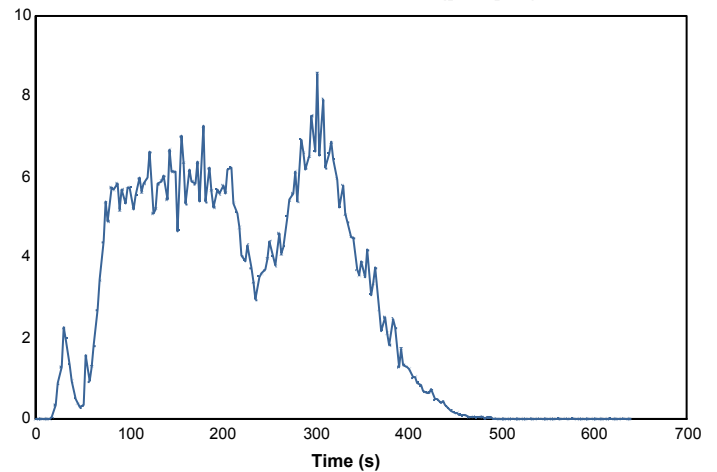
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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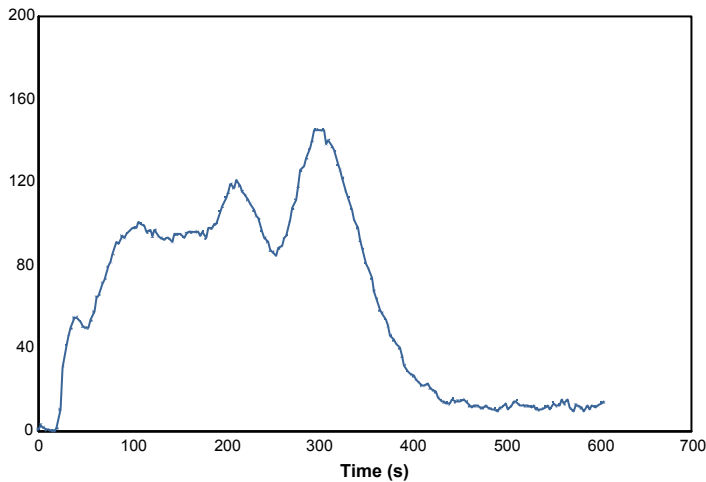
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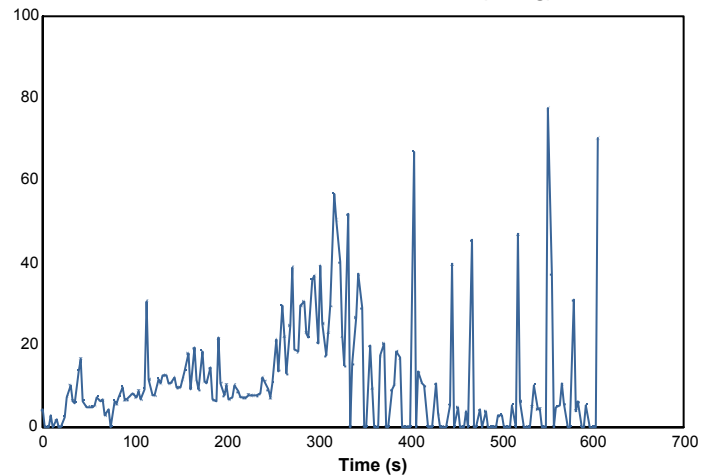
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Specimen : 2

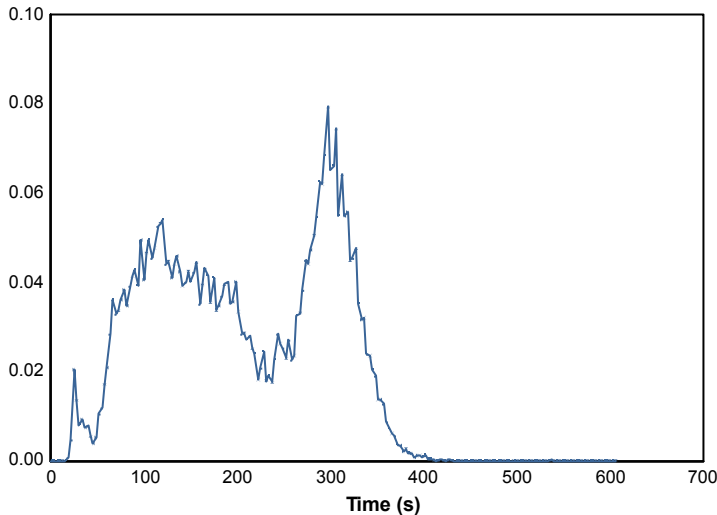
Heat release rate (kW/m²)



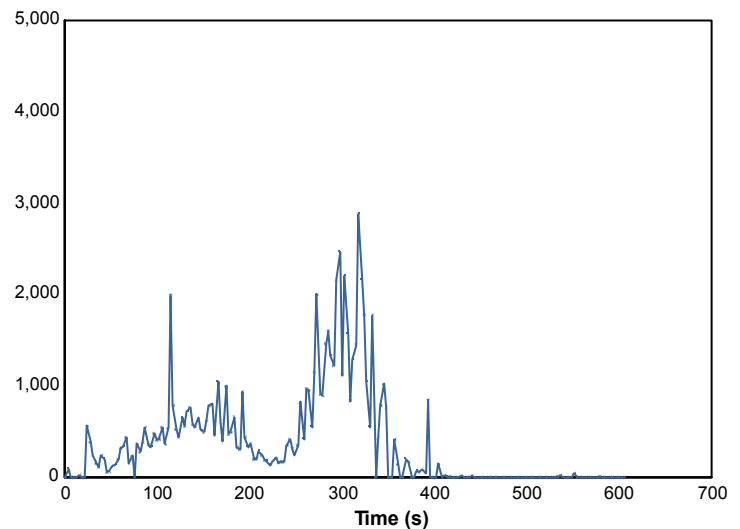
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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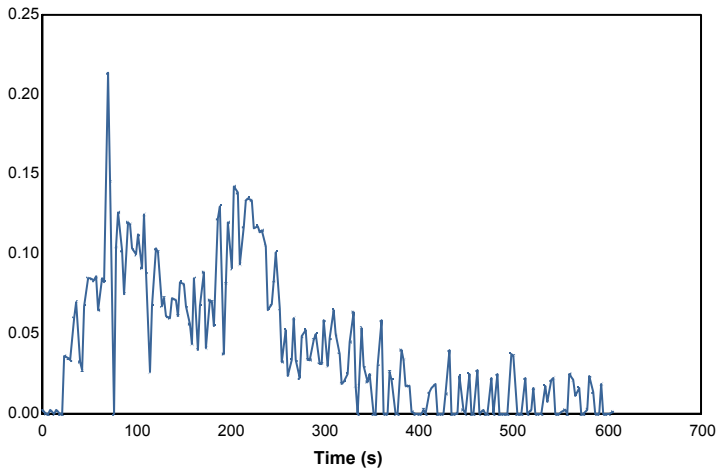
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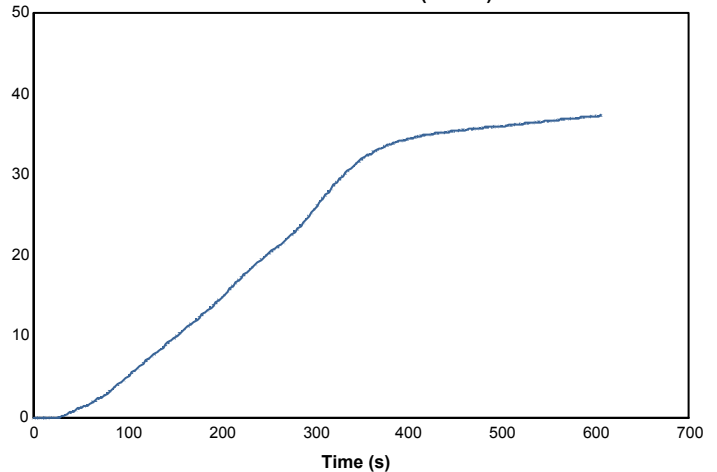
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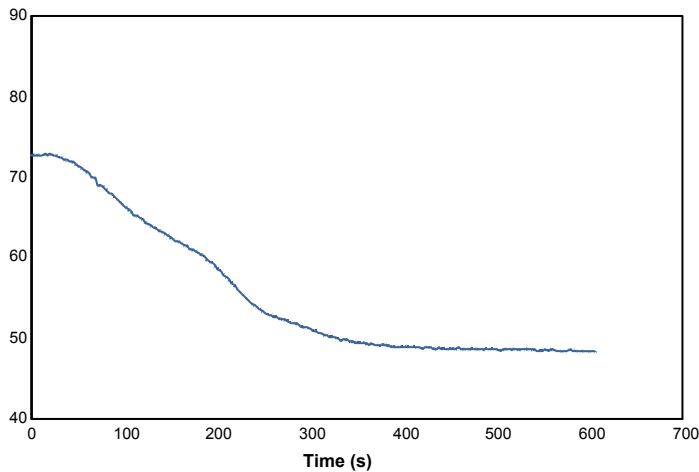
Mass loss rate (g/s)



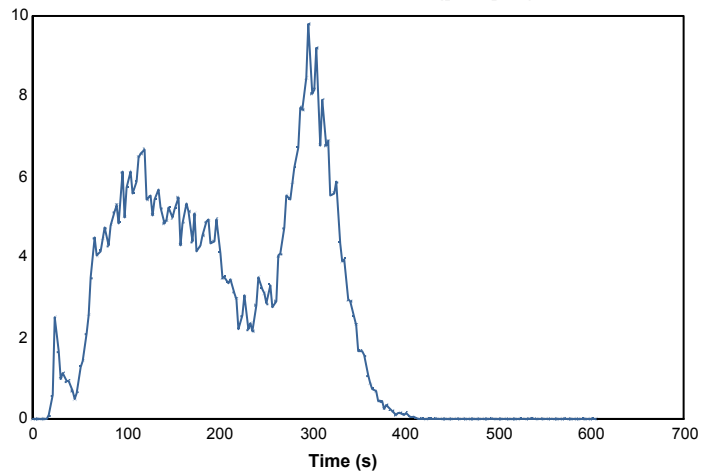
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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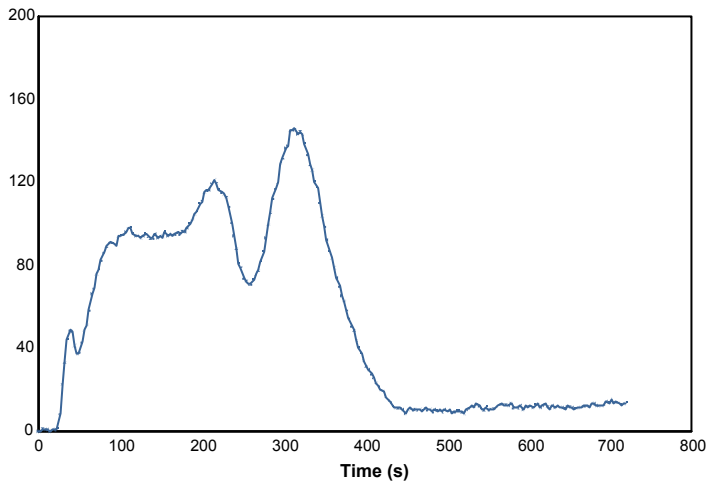
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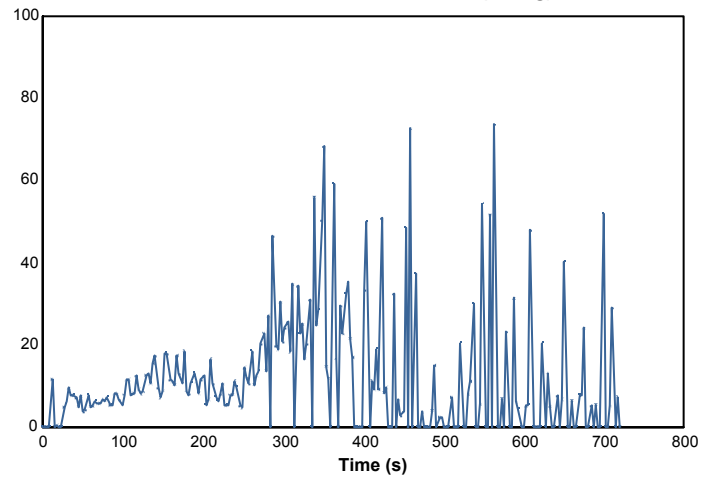
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Specimen : 3

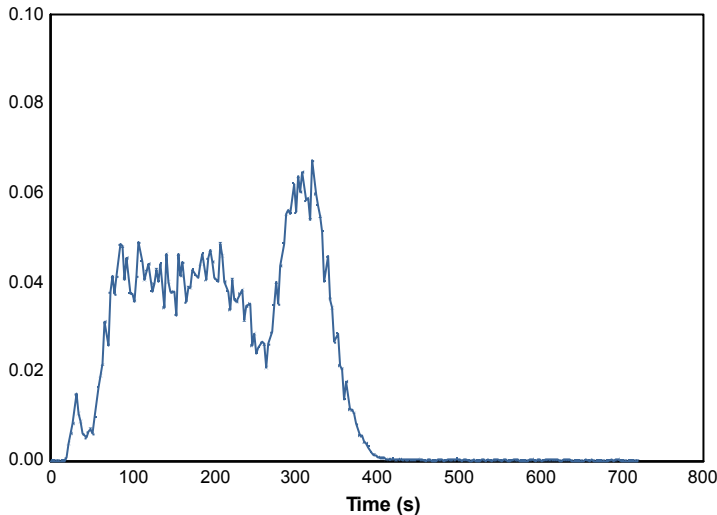
Heat release rate (kW/m²)



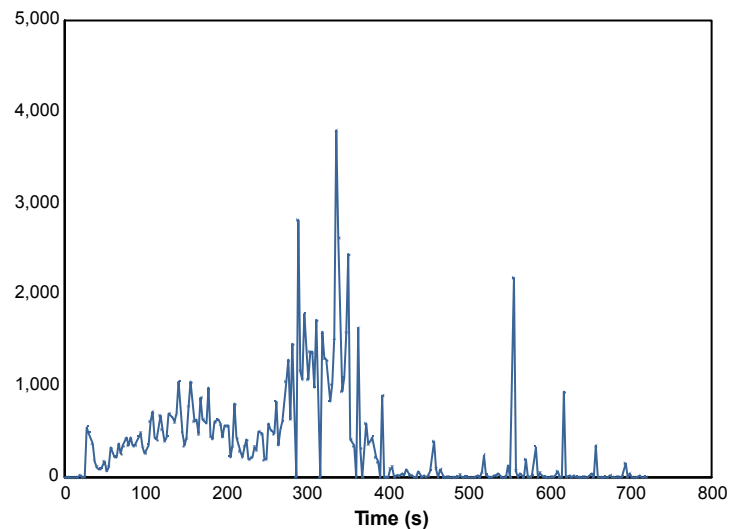
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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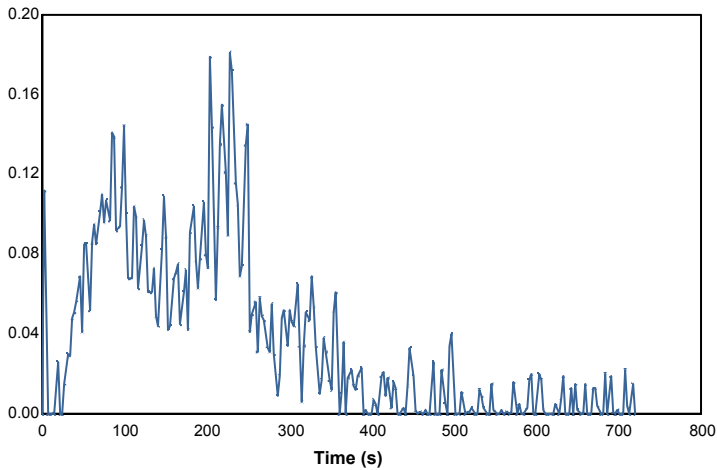
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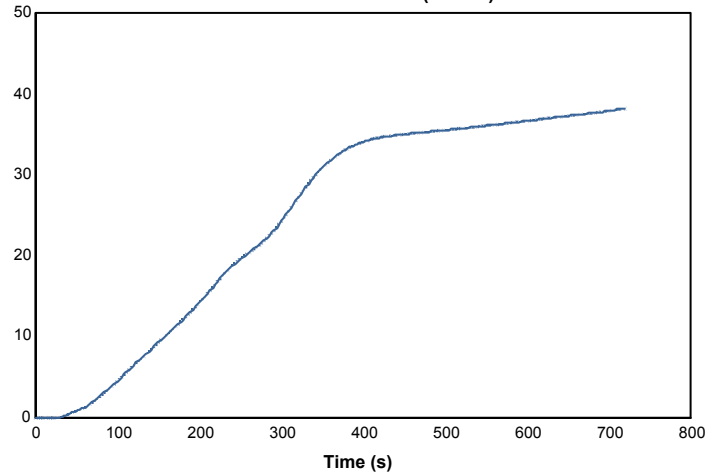
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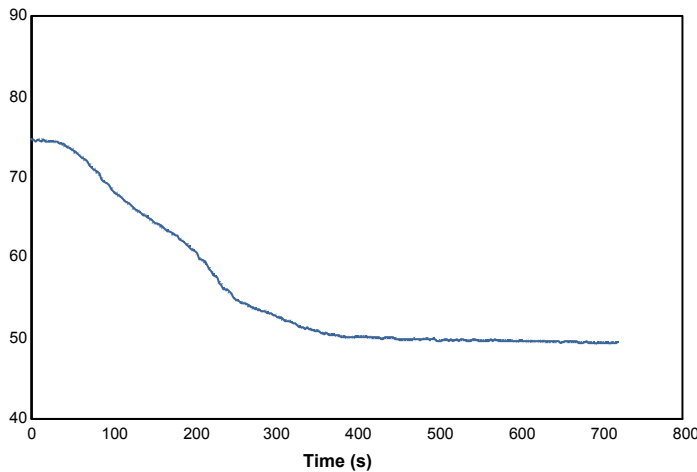
Mass loss rate (g/s)



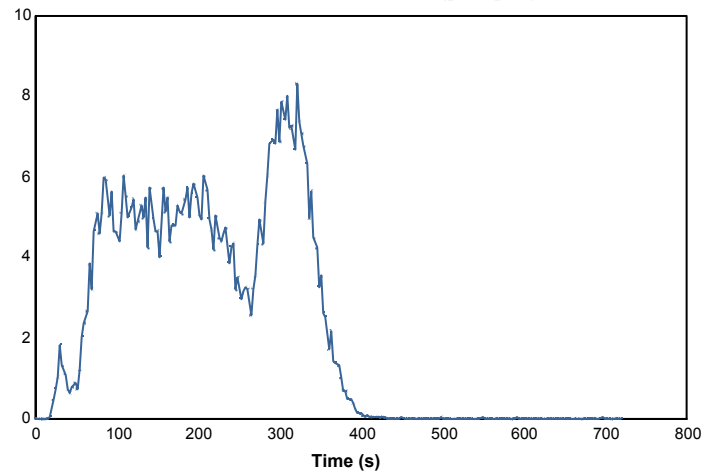
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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