

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

TEST REPORT

Client : Woven Image Pty Ltd
37-39 Chard Road
Brookvale NSW 2100

Test Number : 18-007596
Issue Date : 13/02/2019
Print Date : 2/12/2022

Sample Description

Clients Ref : "Ascent"
3D formed wall tile
Colour : Dark Grey / Light Grey
End Use : Wall Tile
Nominal Composition : 100% Polyethylene Terephthalate
Top layer 60% Recycled
Base layer 70% Recycled
Nominal Mass per Unit Area/Density : Approx 1.4 kg/m²
Nominal Thickness : Approx 3mm

AS/NZS 3837-1998

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

Date Tested 11/02/2019
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	99.8	93.5	94.1	95.8	kW/m ²
Average Specific extinction area	209.0	221.9	192.3	207.7	m ² /kg

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

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	38	36	42	39	sec
Test duration	470	485	480	478	sec
Peak heat release after ignition	307.4	294.2	317.2	306.3	kW/m ²
Average heat at 60 s	225.6	234.4	228.9	229.6	kW/m ²

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Fiona McDonald

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Average heat at 180 s	174.1	173.6	170.6	172.8	kW/m ²
Average heat at 300 s	125.1	122.2	120.4	122.6	kW/m ²
Total heat released	42.9	41.7	41.0	41.9	MJ/m ²
Average effective heat of combustion	13.6	12.9	13.0	13.2	MJ/kg
Initial thickness	9	9	9	9.0	mm
Initial mass	103.4	103.9	104.4	103.9	g
Mass remaining	77.7	77.7	78.9	78.1	g
Mass percentage pyrolysed	24.9	25.2	24.4	24.9	%
Mass loss	3.2	3.2	3.2	3.2	kg/m ²
Average rate of mass loss	10.0	10.2	9.9	10.0	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.

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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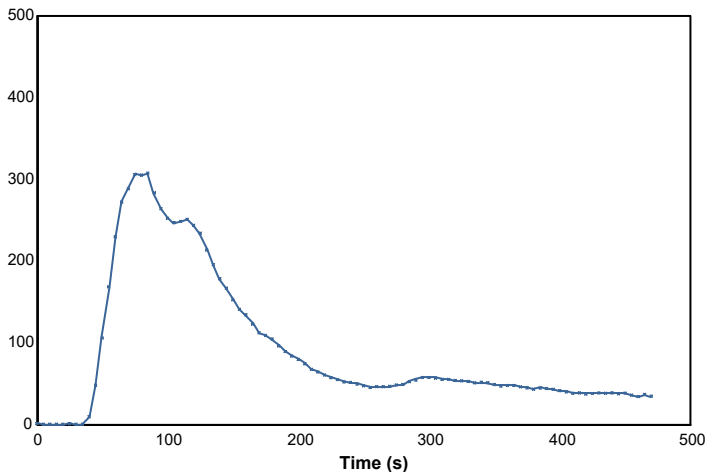
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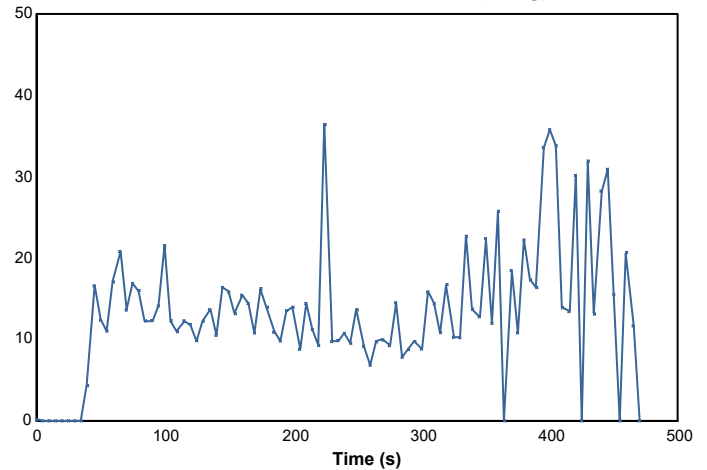
Test Number : 18-007596
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Specimen : 1

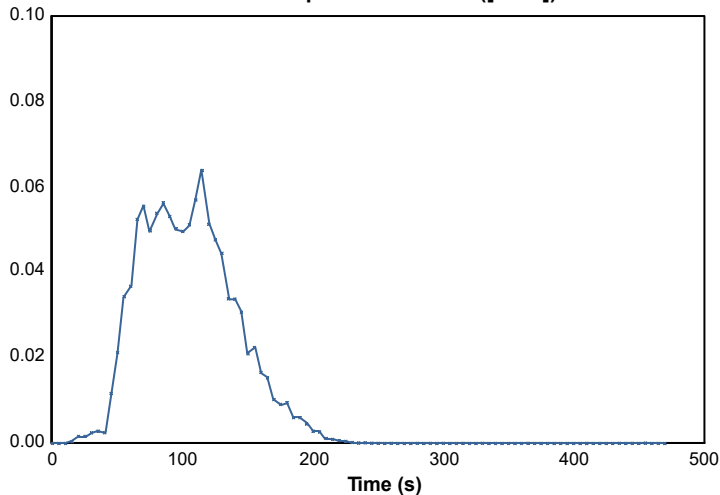
Heat release rate (kW/m²)



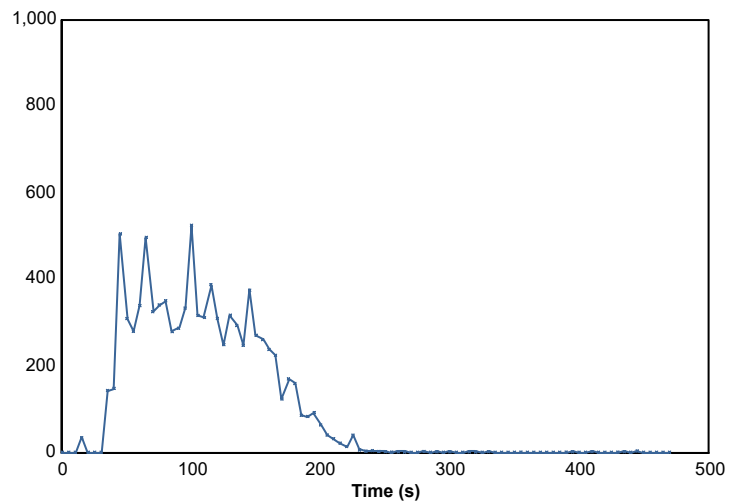
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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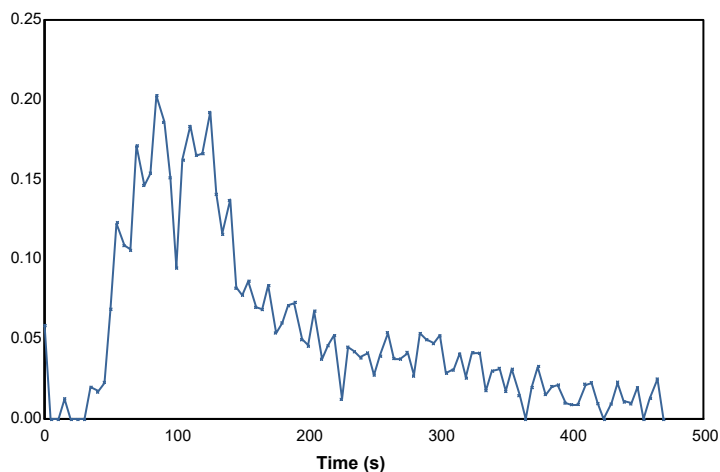
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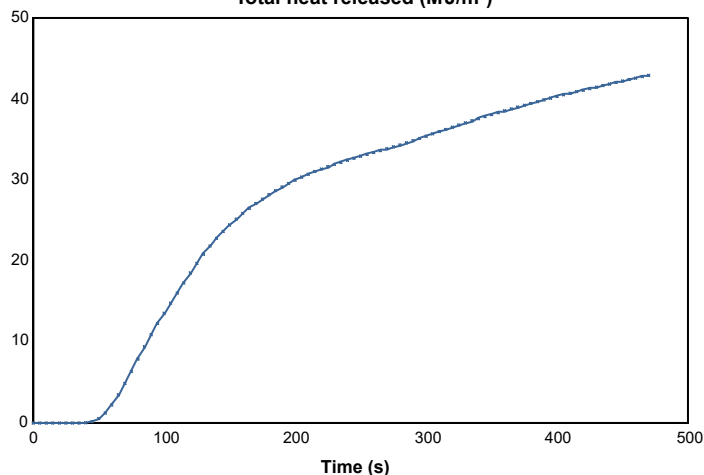
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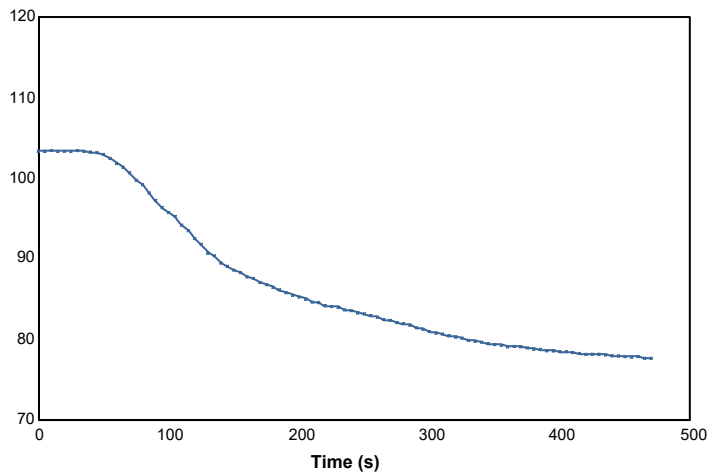
Mass loss rate (g/s)



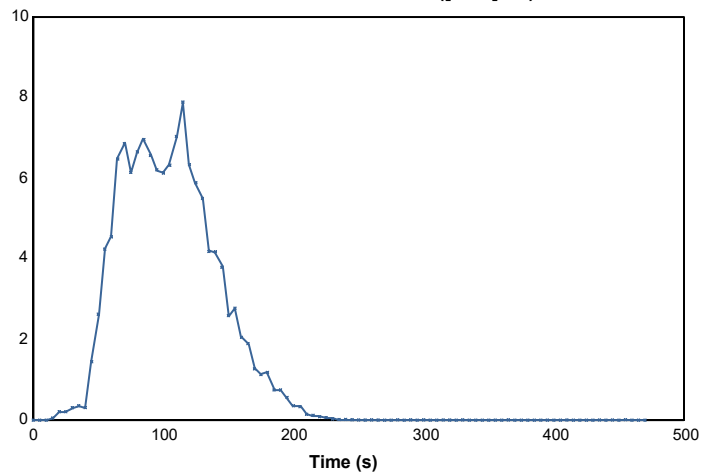
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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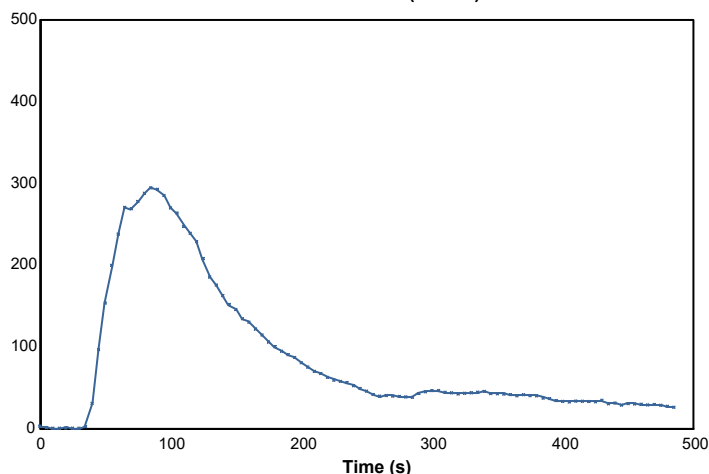
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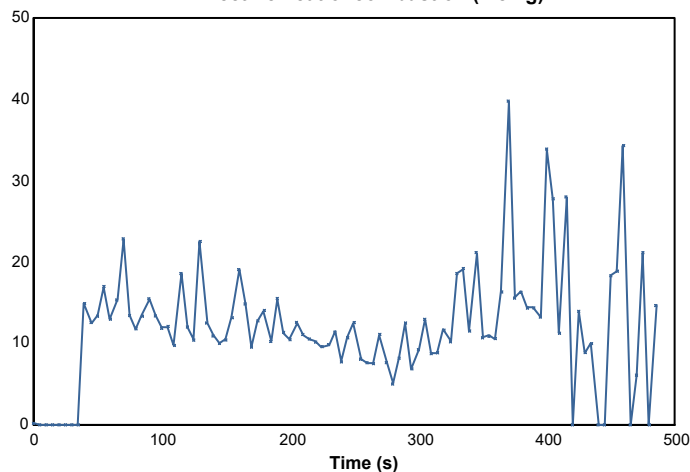
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Specimen : 2

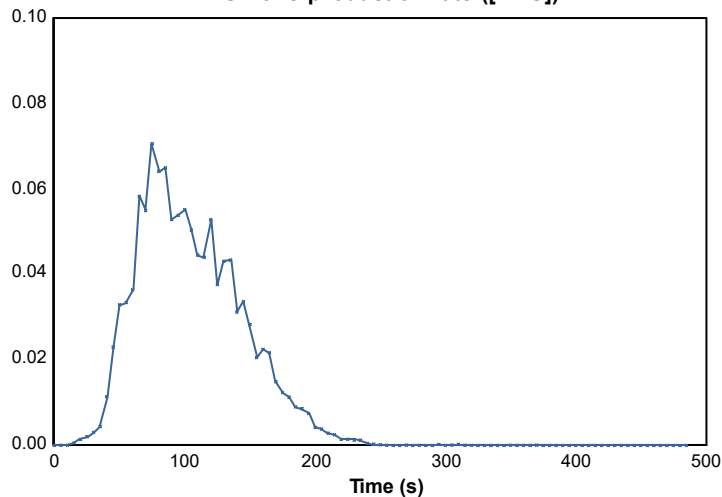
Heat release rate (kW/m²)



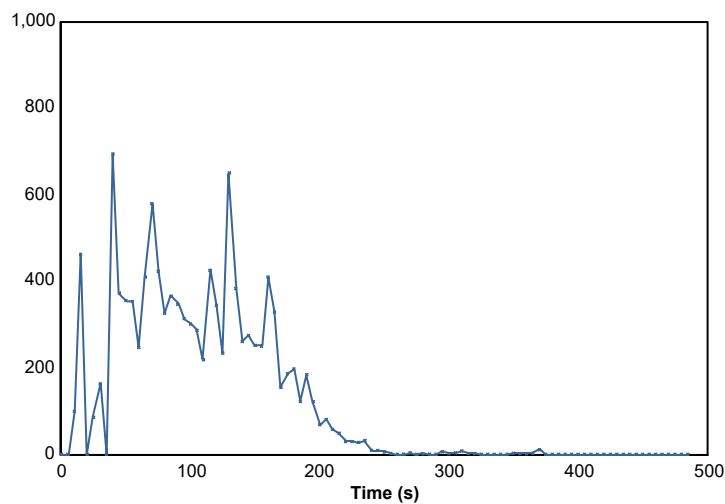
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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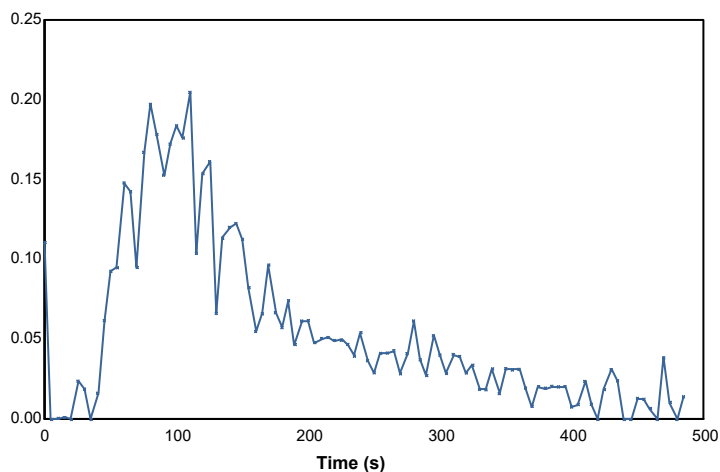
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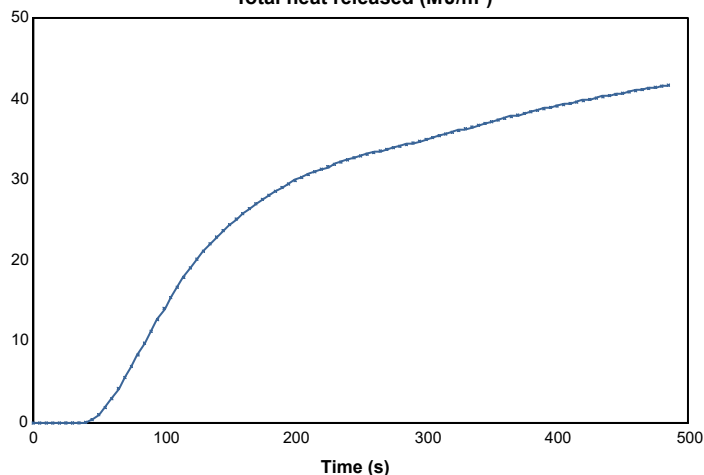
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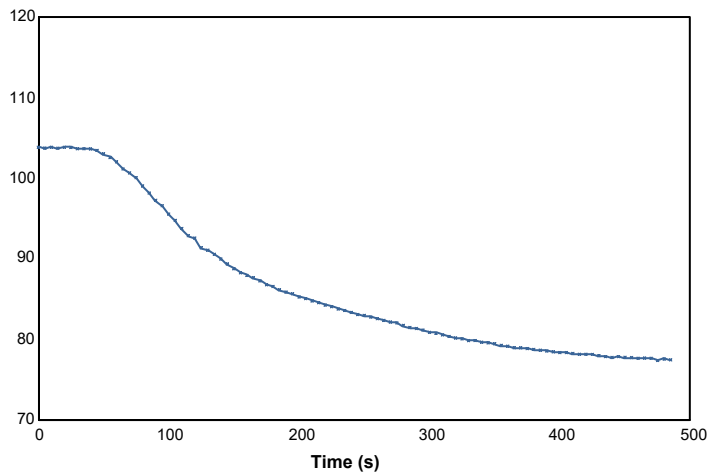
Mass loss rate (g/s)



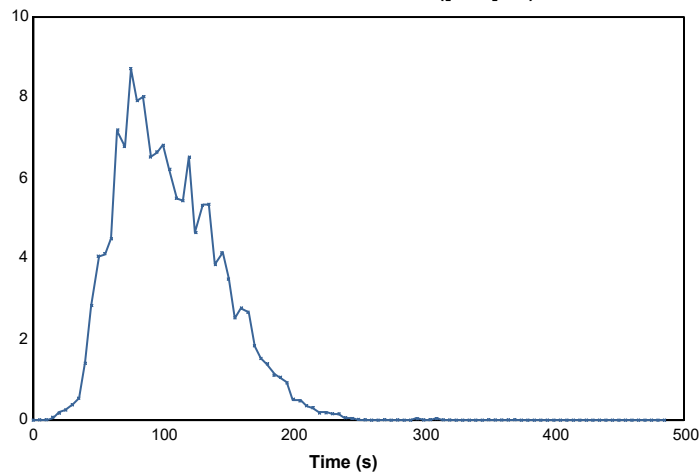
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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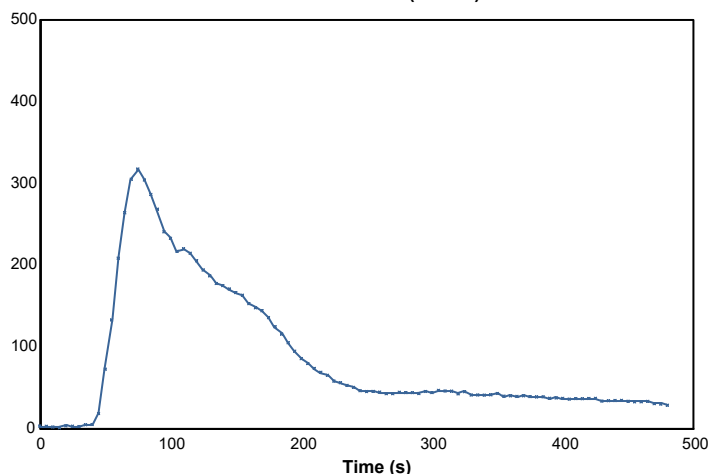
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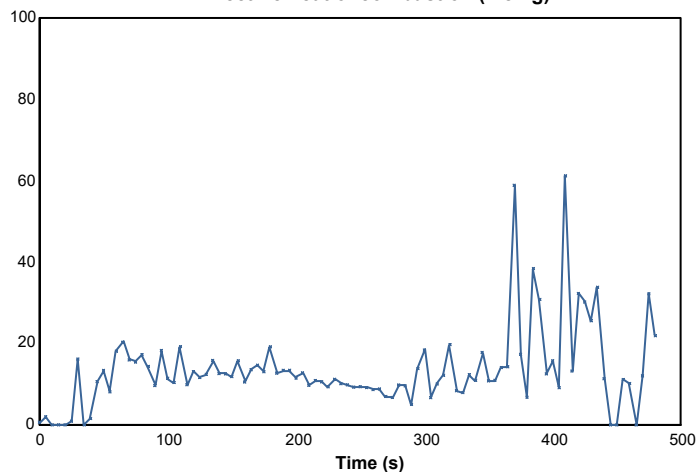
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Specimen : 3

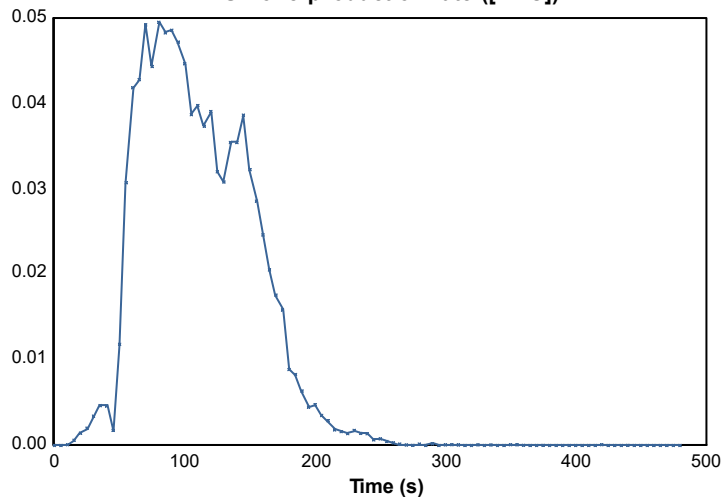
Heat release rate (kW/m²)



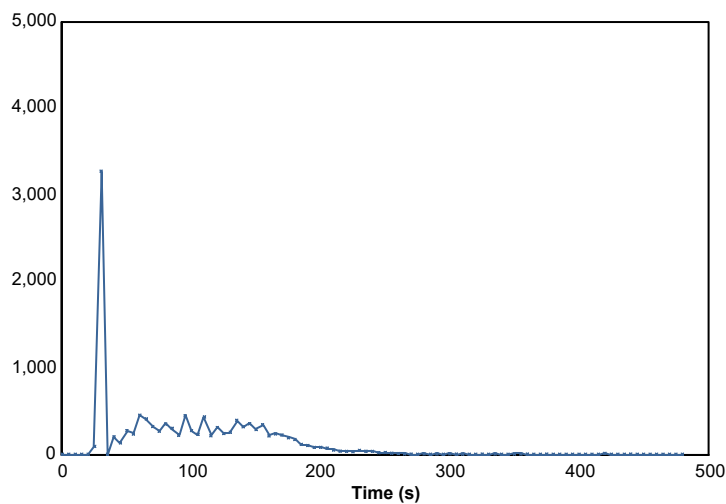
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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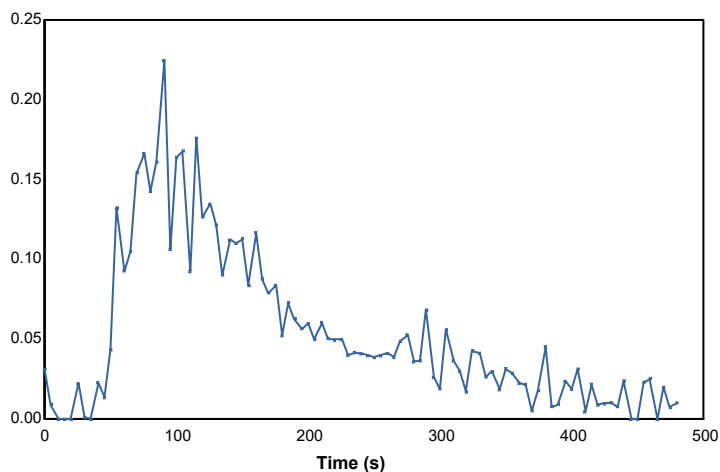
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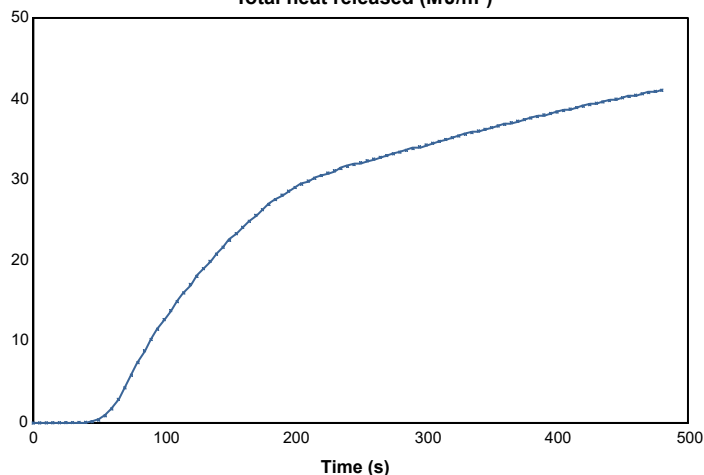
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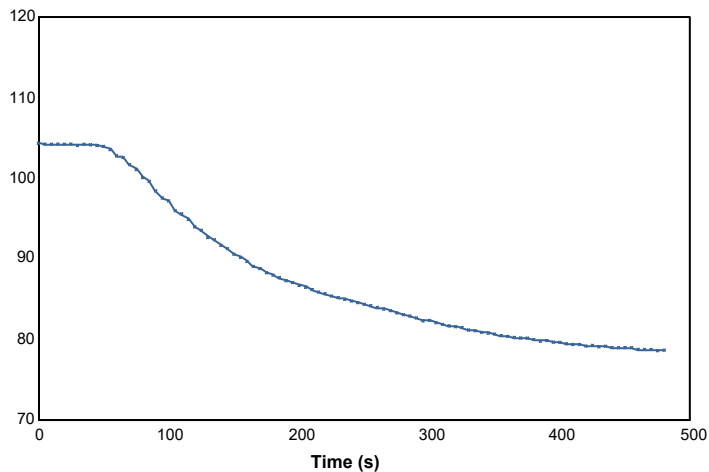
Mass loss rate (g/s)



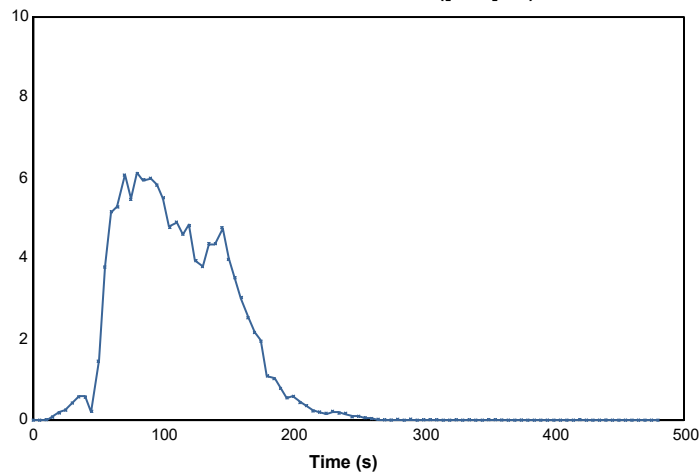
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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