

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

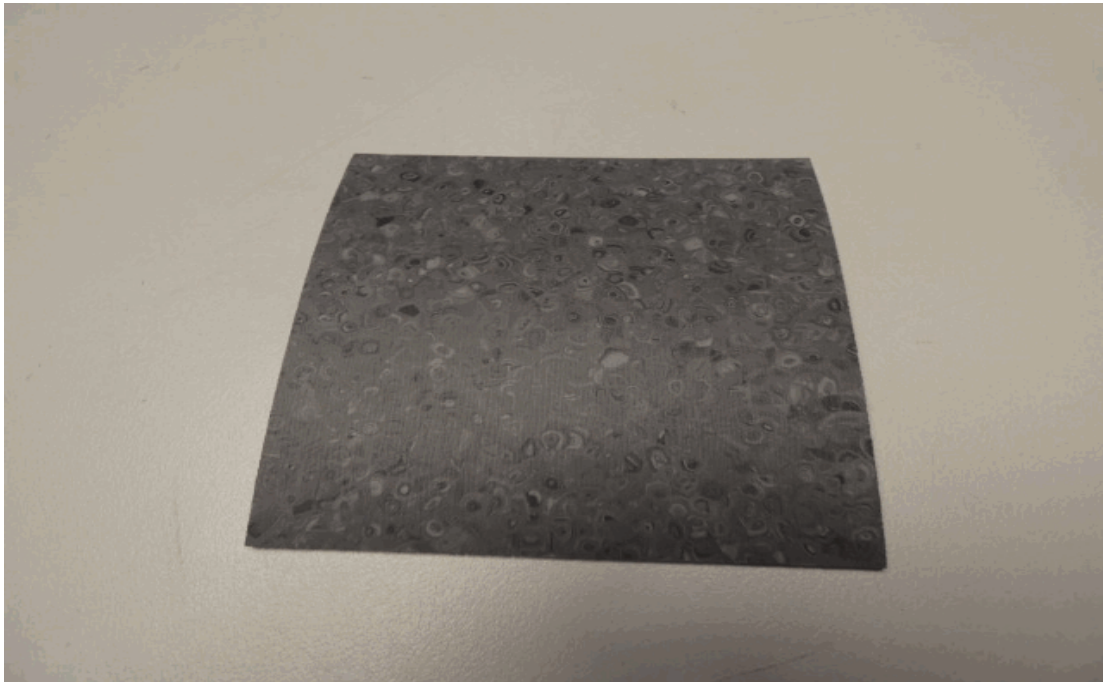
TEST REPORT

Client : Gerflor Australasia Pty Ltd
17 Cato Street
Hawthorn East VIC 3123

Test Number : 22-000471
Issue Date : 04/03/2022
Print Date : 7/03/2022

Sample Description

Clients Ref : "Mipolam Concept"
Vinyl sheet
Colour : Grey
End Use : Commercial Wallcovering
Nominal Composition : Homogenous PVC
Nominal Mass per Unit Area/Density : 2980g/m2
Nominal Thickness : 2mm



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Sean Bassett

APPROVED SIGNATORY

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

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

Date Tested 04-03-2022
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	70.0	76.7	73.9	73.5	kW/m ²
Average Specific extinction area	332.8	357.2	344.1	344.7	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	25	29	26	27	sec
Test duration	468	481	486	478	sec
Peak heat release after ignition	145.6	151.0	147.0	147.9	kW/m ²
Average heat at 60 s	102.5	117.3	118.0	112.6	kW/m ²
Average heat at 180 s	111.5	119.3	118.1	116.3	kW/m ²
Average heat at 300 s	94.4	101.8	100.7	99.0	kW/m ²
Total heat released	31.1	34.8	33.9	33.3	MJ/m ²
Average effective heat of combustion	10.1	11.2	10.5	10.6	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	98	90.7	91.6	93.4	g
Mass remaining	73.2	65.3	65.8	68.1	g
Mass percentage pyrolysed	25.4	28.0	28.2	27.2	%

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Mass loss	3.1	3.1	3.2	3.1	kg/m ²
Average rate of mass loss	6.9	6.9	7.0	6.9	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 the sample within the sample holder and to stop the sample from curling around the igniter.

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

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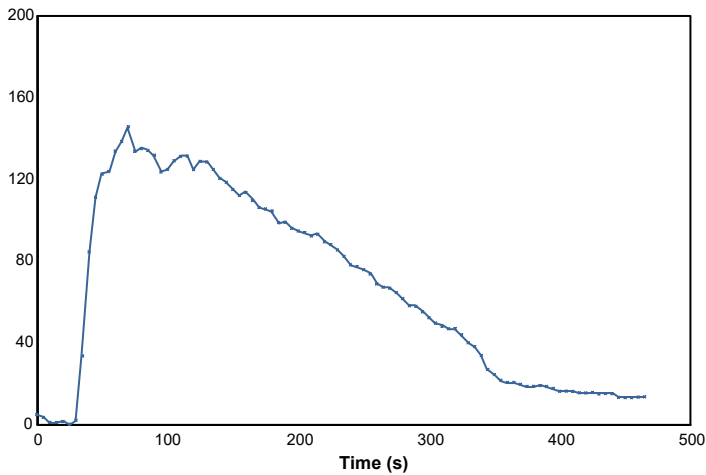
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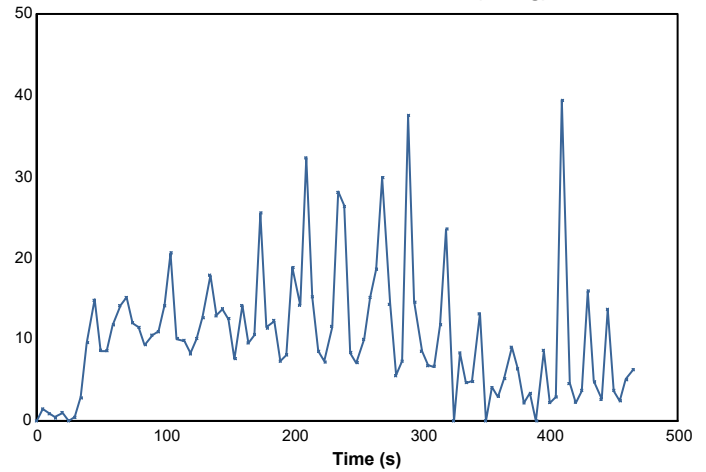
Test Number : 22-000471
Issue Date : 04/03/2022
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Specimen : 1

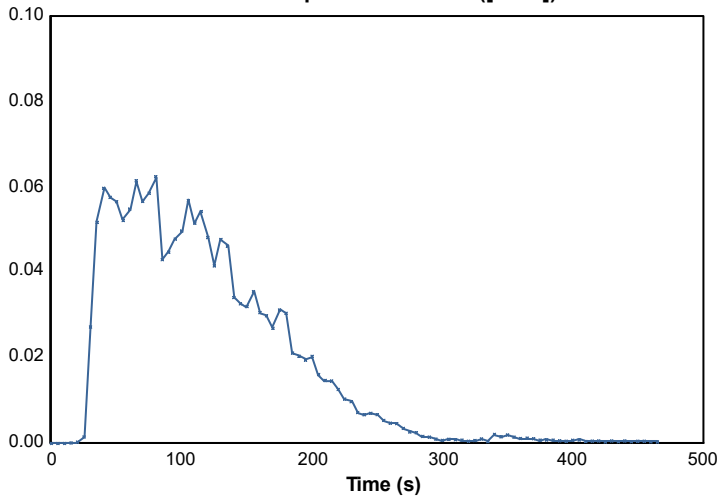
Heat release rate (kW/m²)



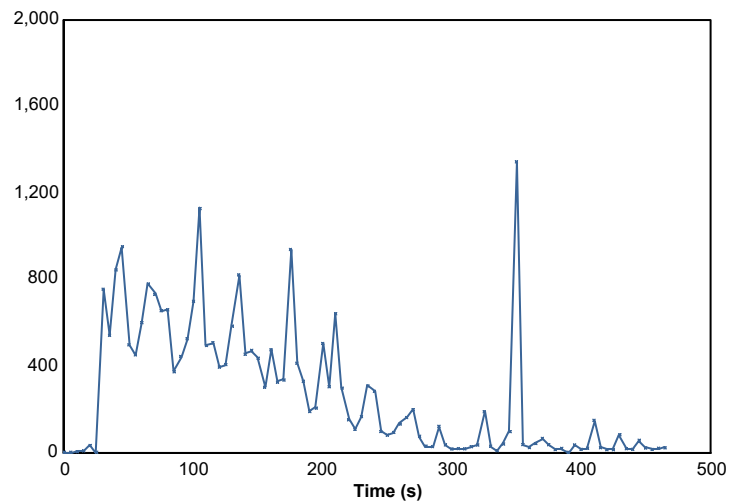
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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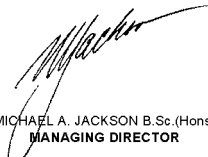
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0204/11/06


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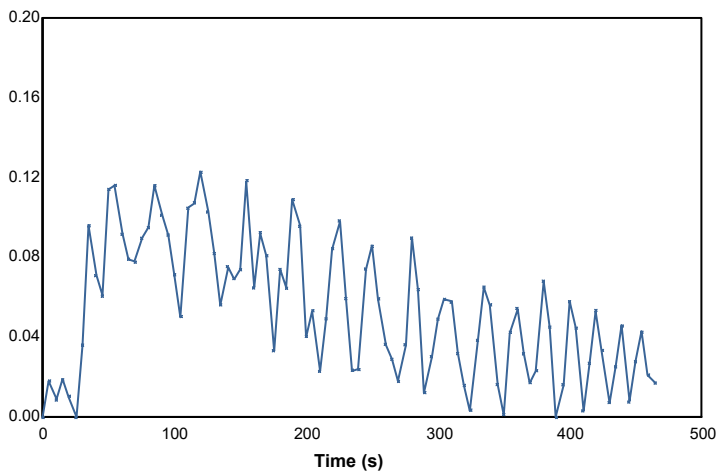
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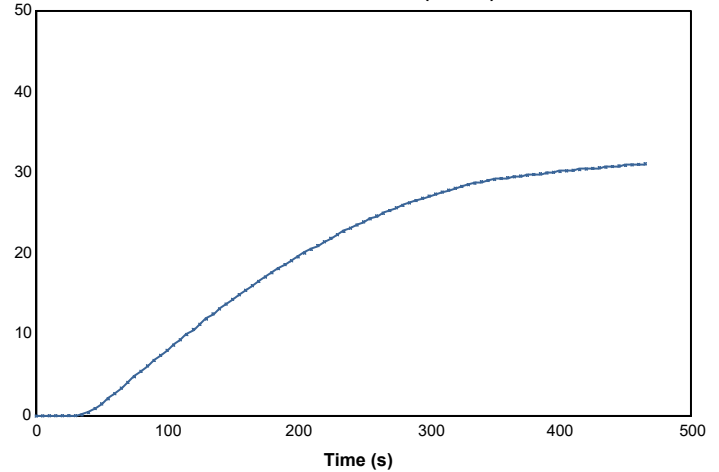
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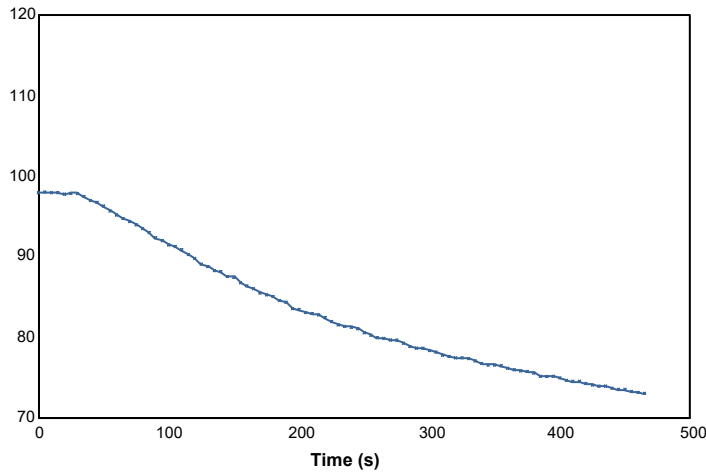
Mass loss rate (g/s)



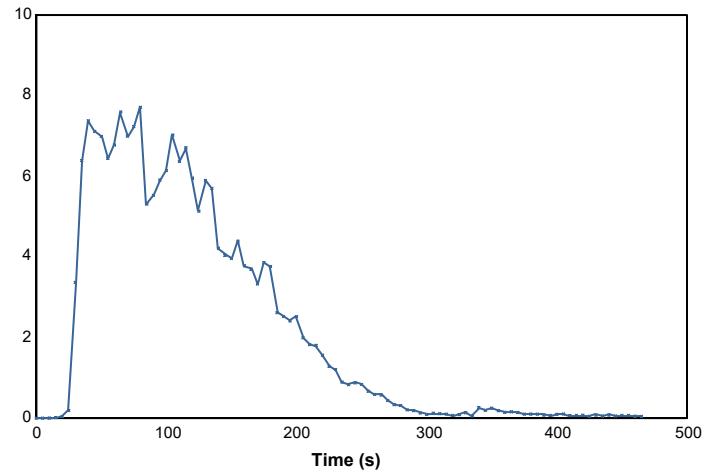
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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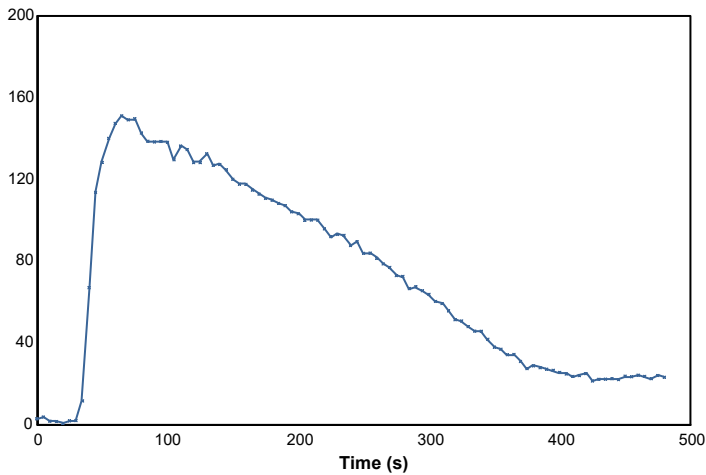
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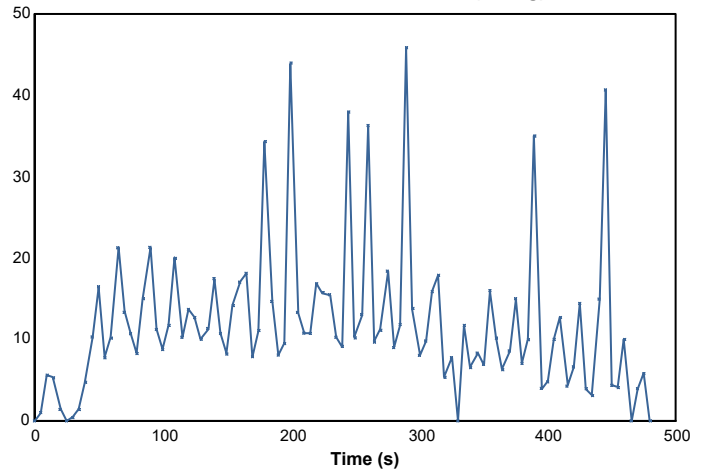
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Specimen : 2

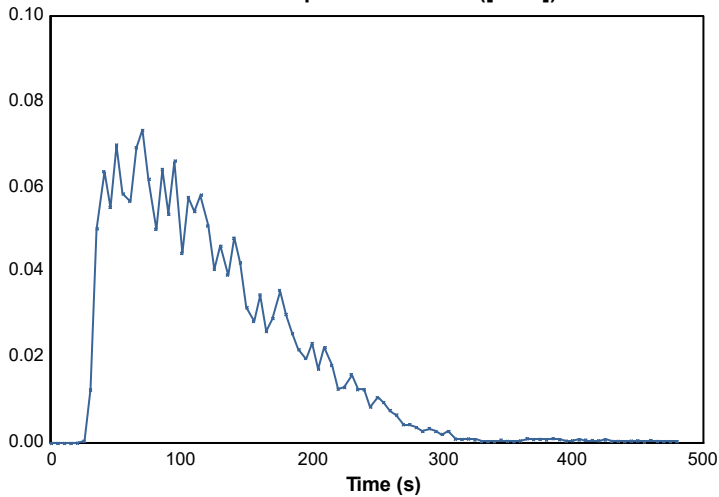
Heat release rate (kW/m²)



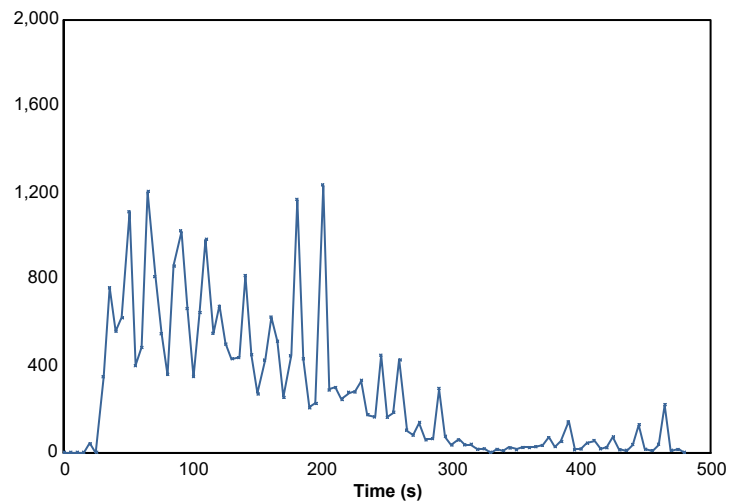
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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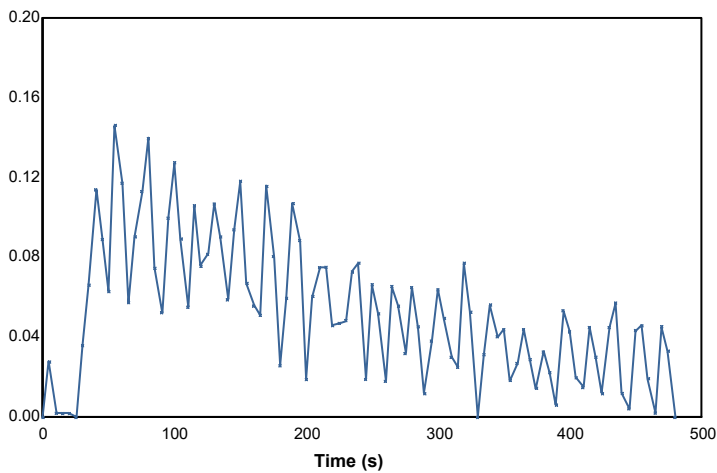
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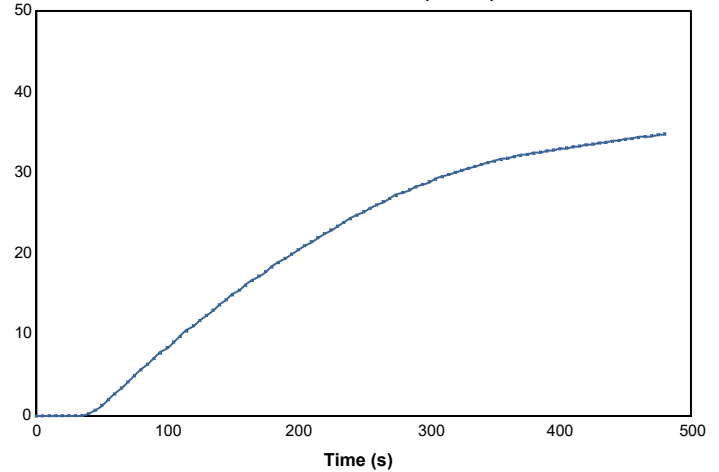
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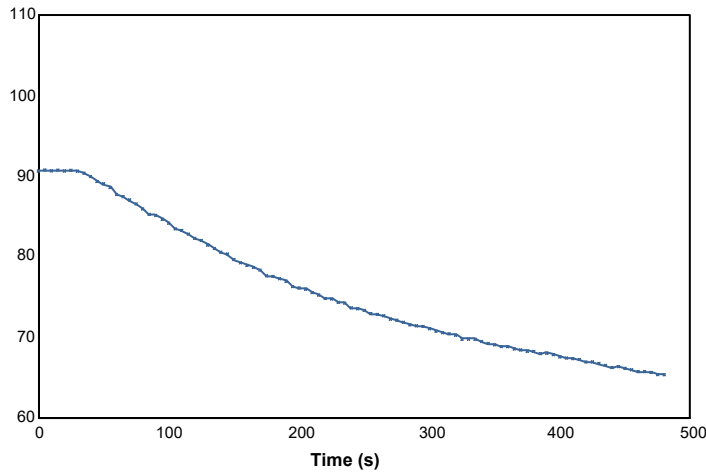
Mass loss rate (g/s)



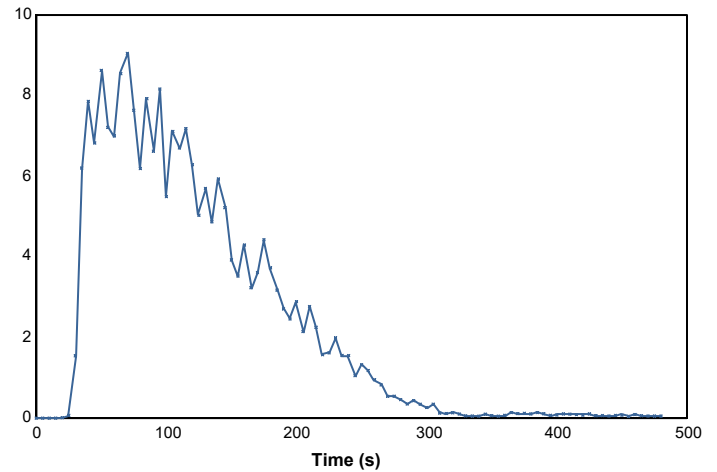
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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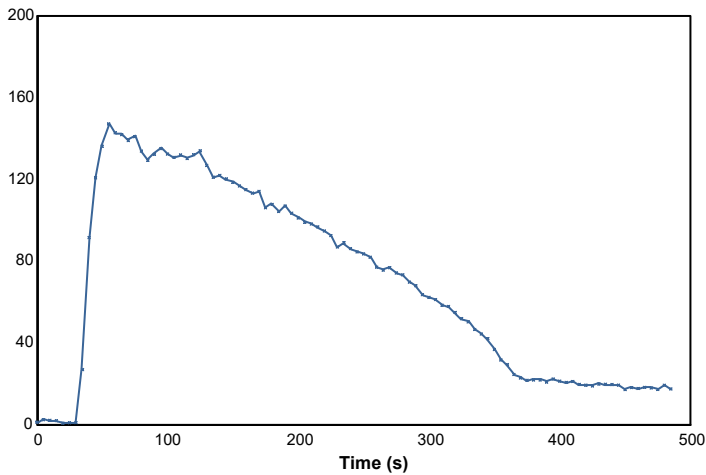
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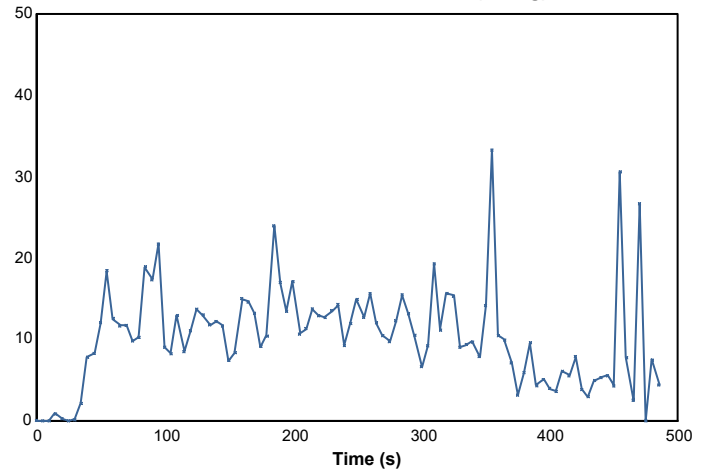
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Specimen : 3

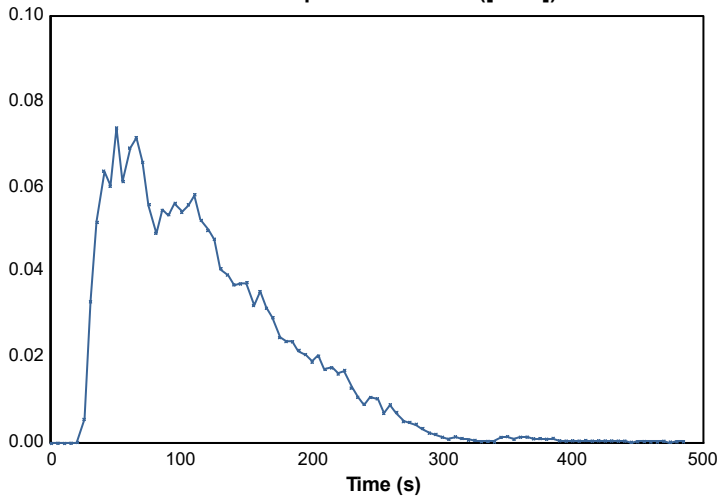
Heat release rate (kW/m²)



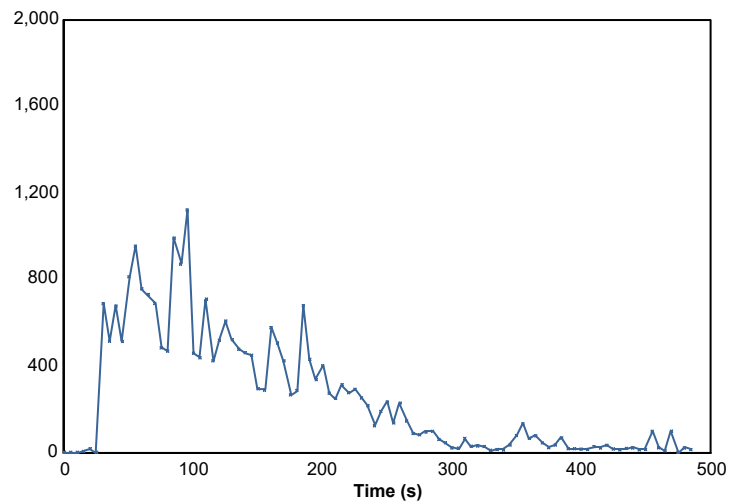
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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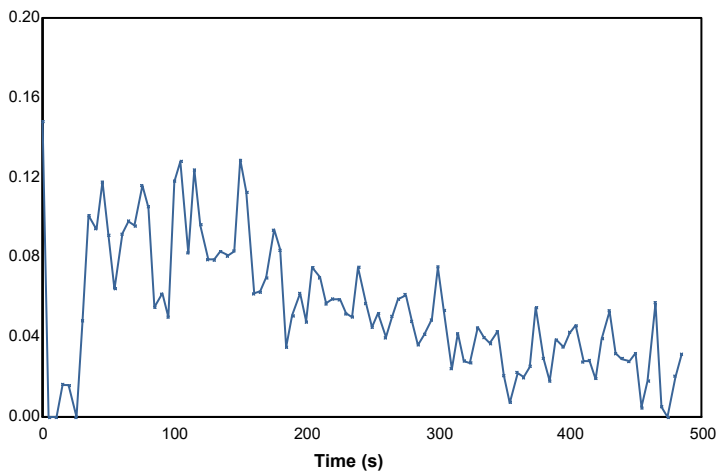
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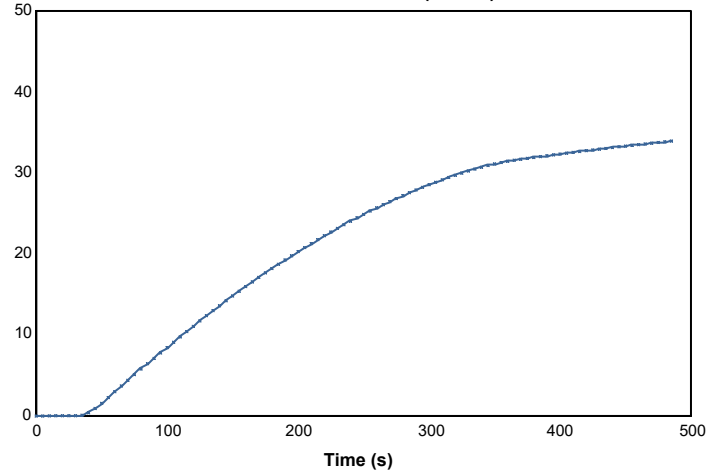
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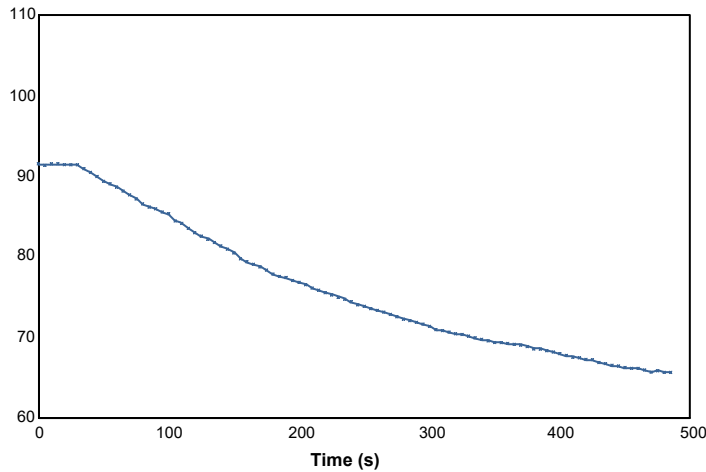
Mass loss rate (g/s)



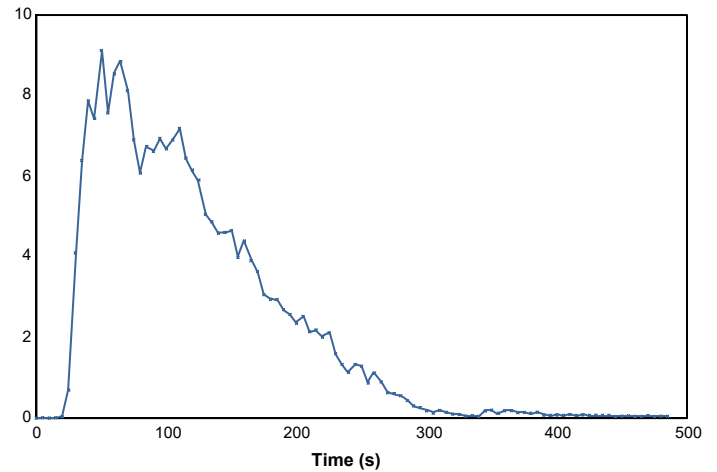
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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