

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 : NSW Leather Co Pty Ltd
16 Anderson Street
Banksmeadow NSW 2019

Test Number : 23-002076
Issue Date : 06/06/2023
Print Date : 3/07/2023

Sample Description

Clients Ref : "Ravello"
Leather sample
Colour : Black
End Use : Upholstery
Nominal Composition : Pigmented bovine leather - Collagen
Nominal Mass per Unit Area/Density : 0.90kg/m2
Nominal Thickness : 1.1-1.3mm



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Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

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 06-06-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	43.6	42.5	39.2	41.8	kW/m ²
Average Specific extinction area	43.4	48.2	45.0	45.6	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	34	35	35	35	sec
Test duration	448	435	430	438	sec
Peak heat release after ignition	149.0	164.1	131.0	148.1	kW/m ²
Average heat at 60 s	109.7	106.0	91.4	102.4	kW/m ²
Average heat at 180 s	72.2	69.5	65.8	69.2	kW/m ²
Average heat at 300 s	51.5	50.1	46.2	49.3	kW/m ²
Total heat released	18.0	17.0	15.5	16.8	MJ/m ²
Average effective heat of combustion	8.8	8.7	7.6	8.4	MJ/kg
Initial thickness	7.1	7.1	7.1	7.1	mm
Initial mass	93.6	97.2	102.2	97.7	g
Mass remaining	76.9	81.4	85.6	81.3	g
Mass percentage pyrolysed	17.8	16.3	16.2	16.8	%

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Mass loss	2.1	2.0	2.0	2.0	kg/m ²
Average rate of mass loss	5.0	4.9	5.2	5.0	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.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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

Paper sticker on back of sample was removed prior to testing

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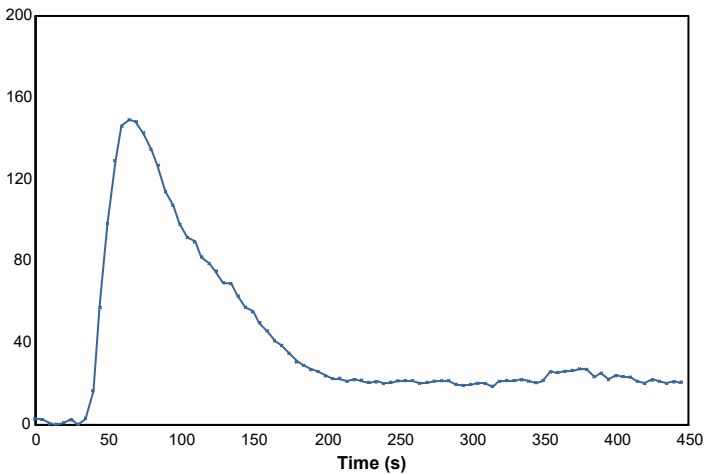
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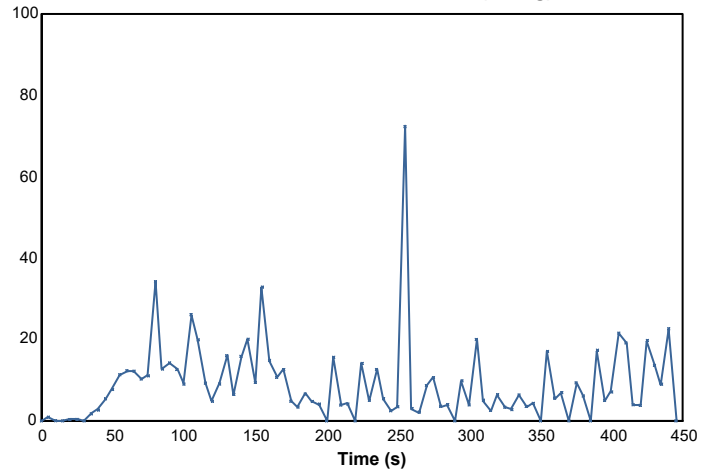
Test Number : 23-002076
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Specimen : 1

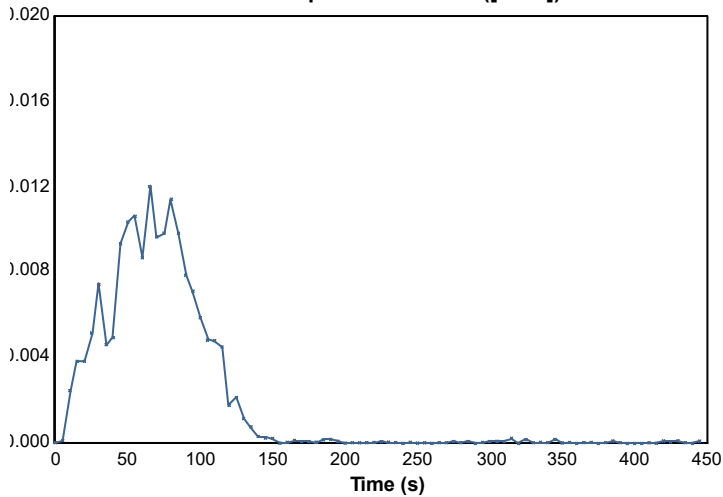
Heat release rate (kW/m²)



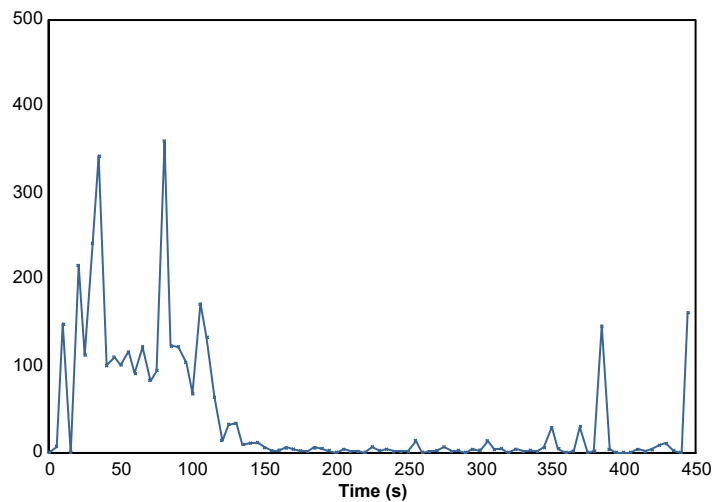
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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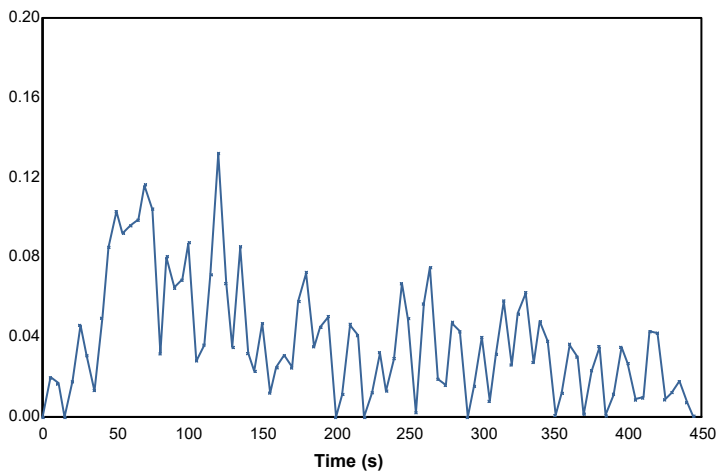
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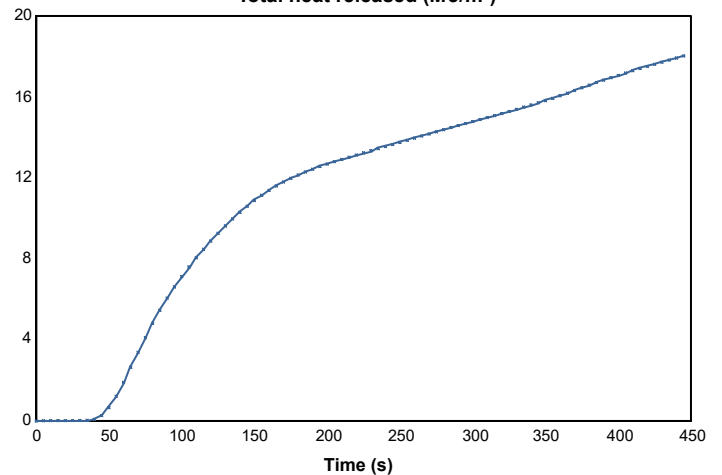
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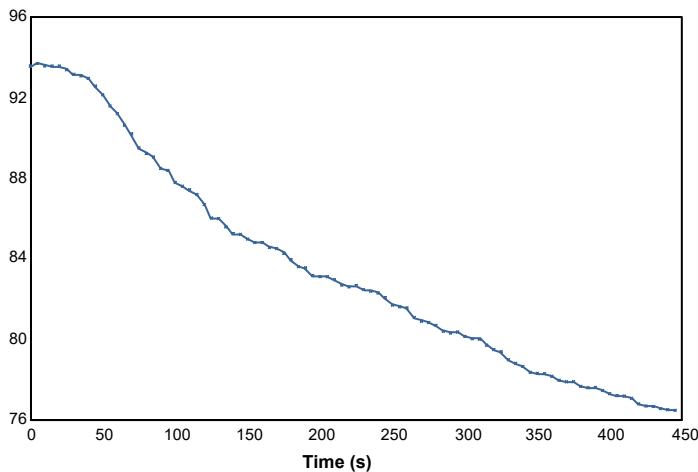
Mass loss rate (g/s)



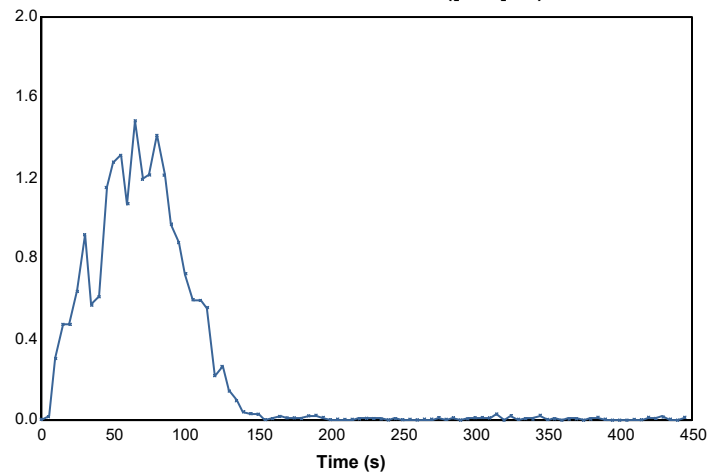
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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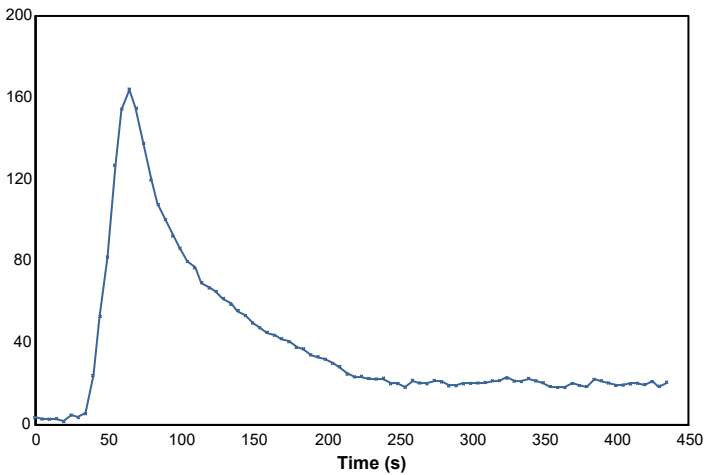
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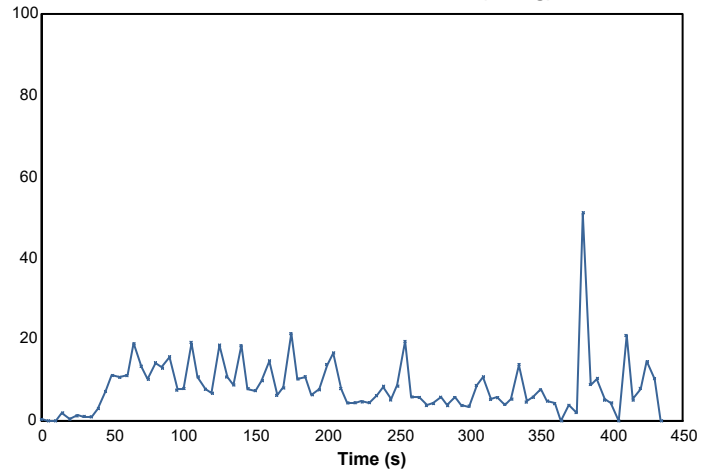
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Specimen : 2

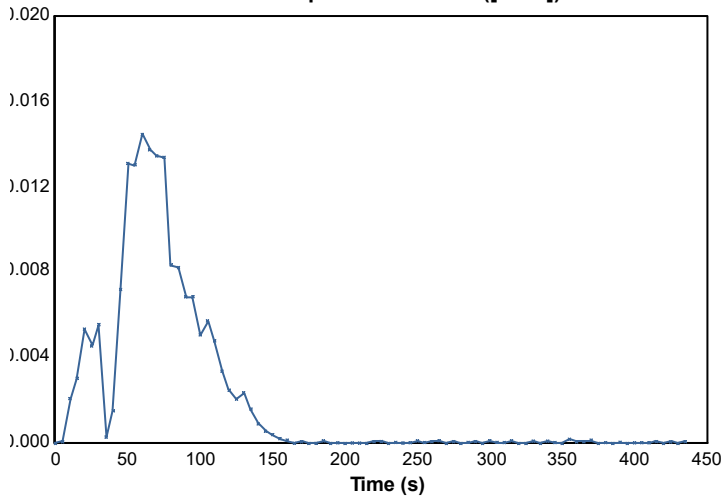
Heat release rate (kW/m²)



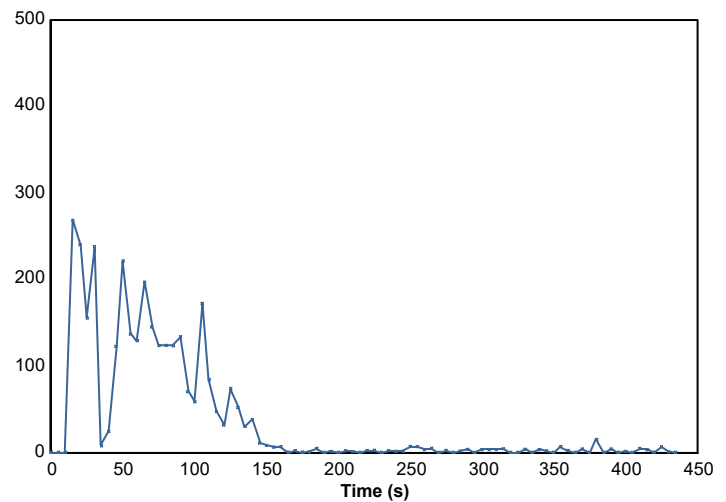
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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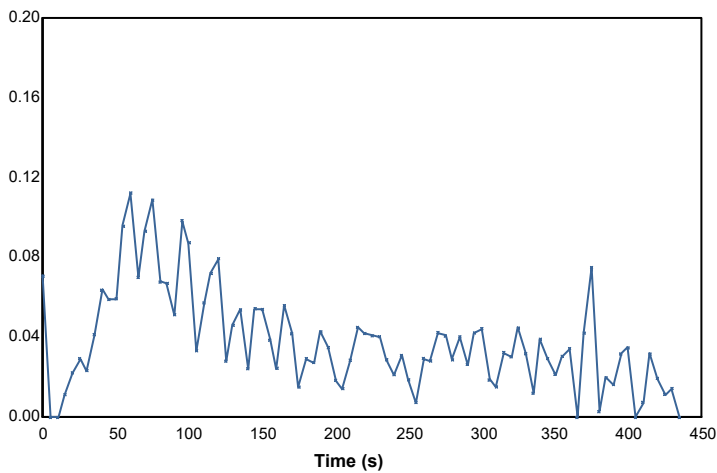
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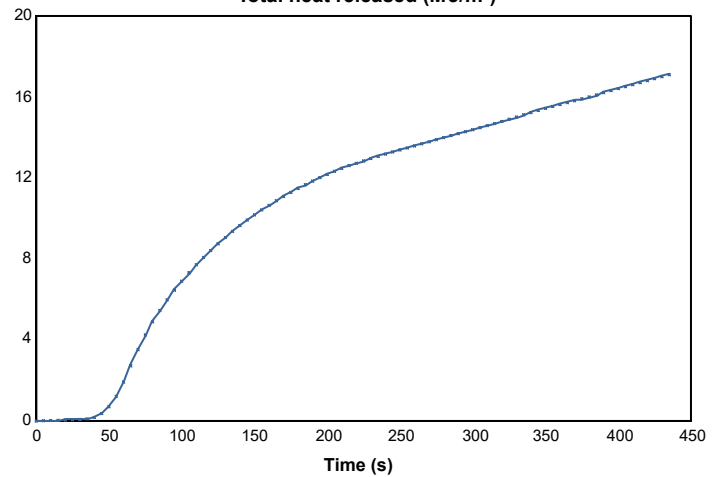
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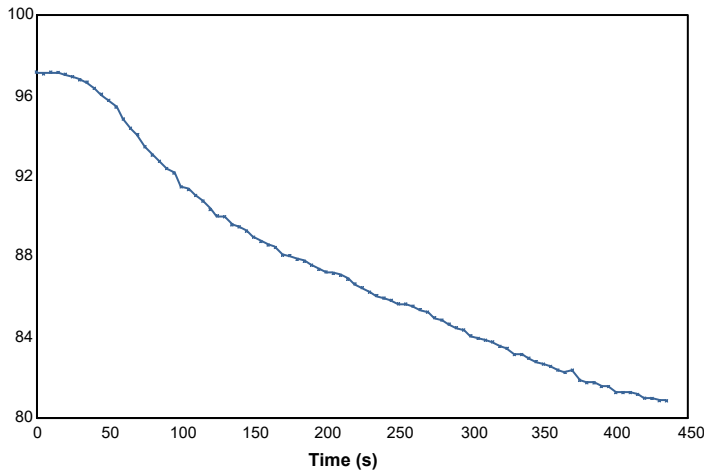
Mass loss rate (g/s)



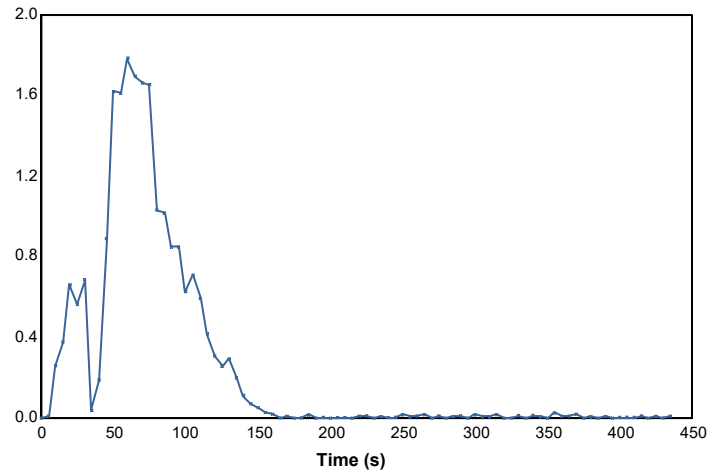
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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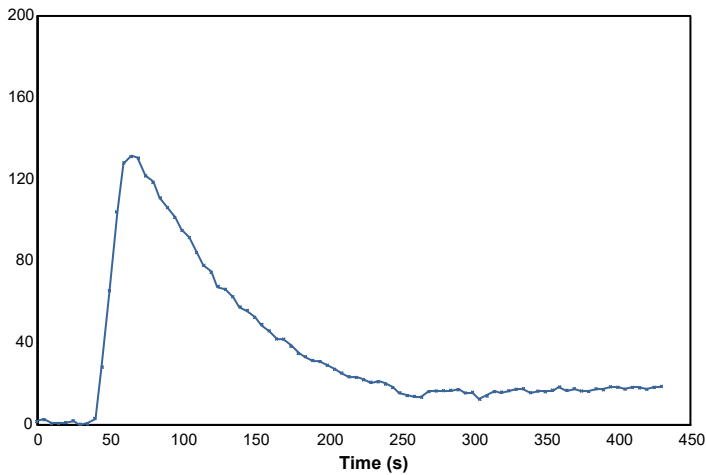
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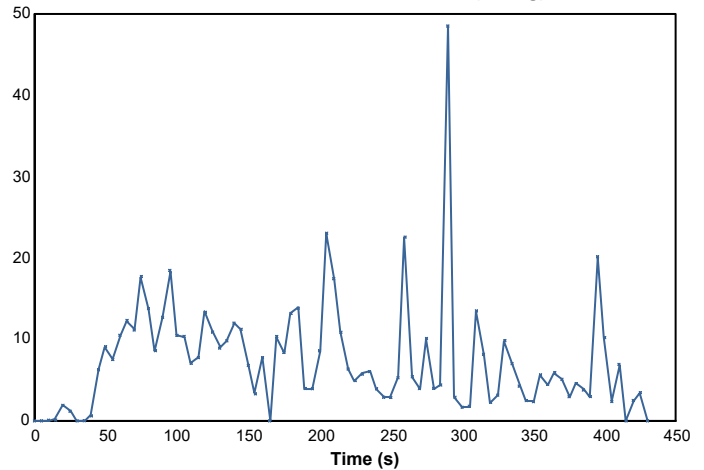
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Specimen : 3

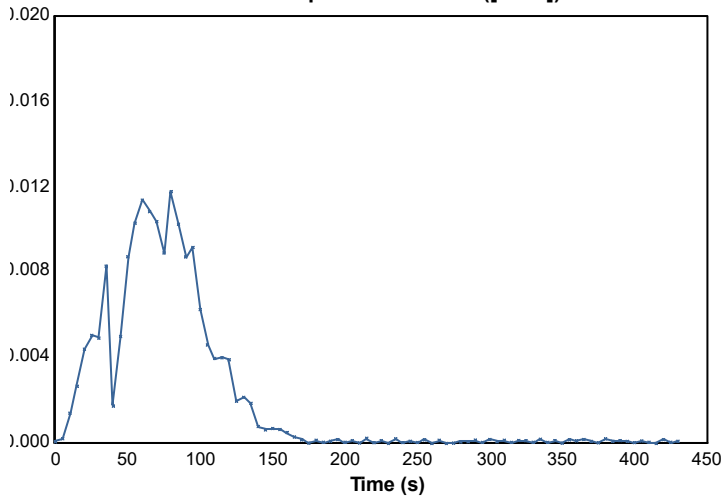
Heat release rate (kW/m²)



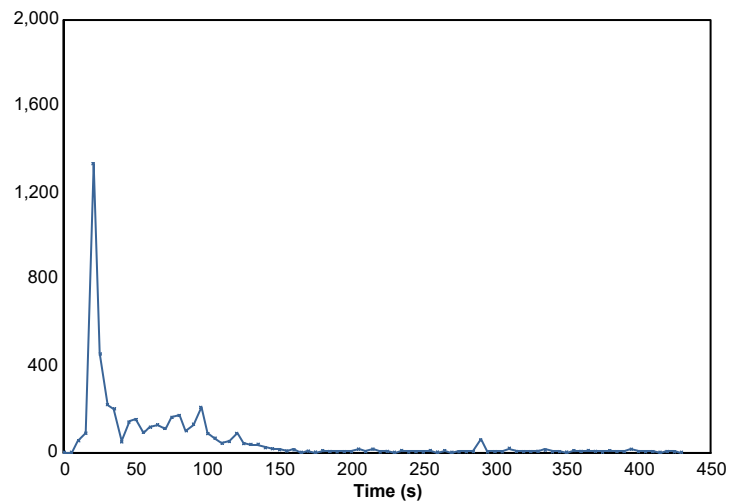
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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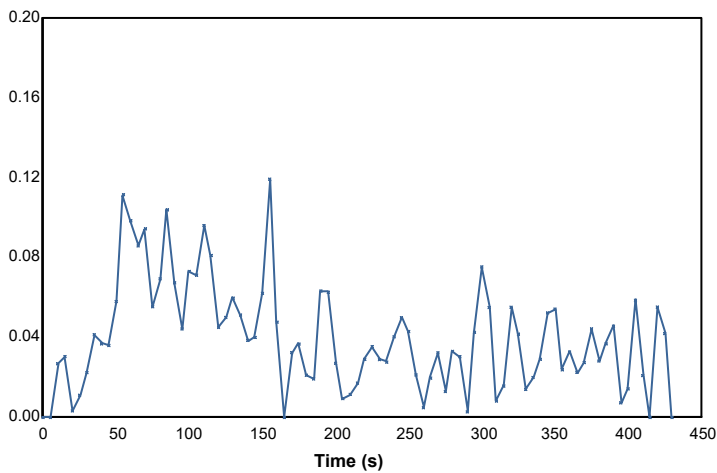
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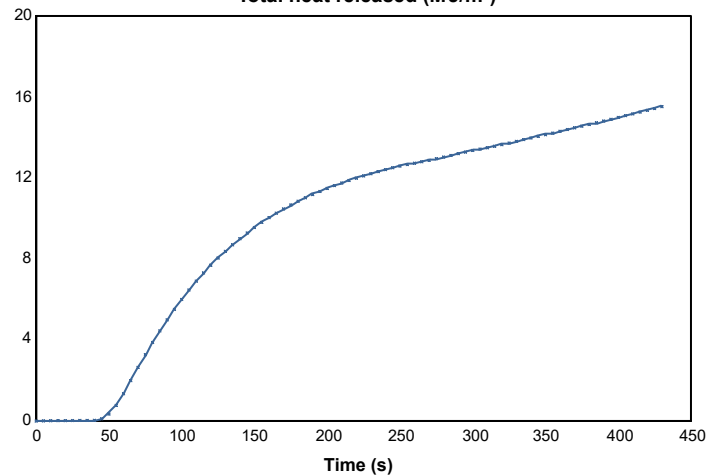
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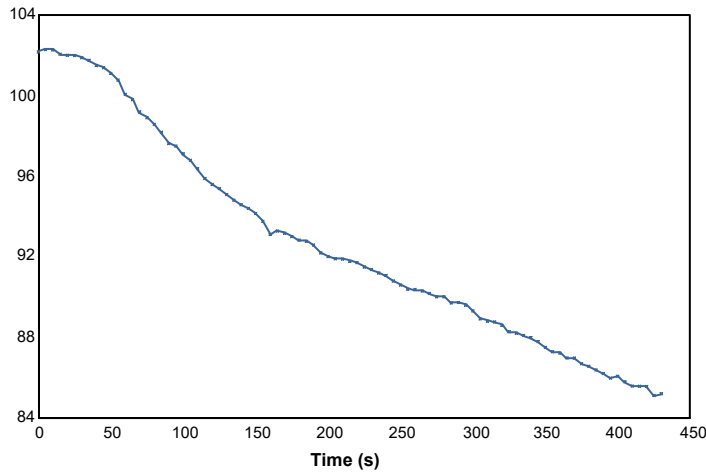
Mass loss rate (g/s)



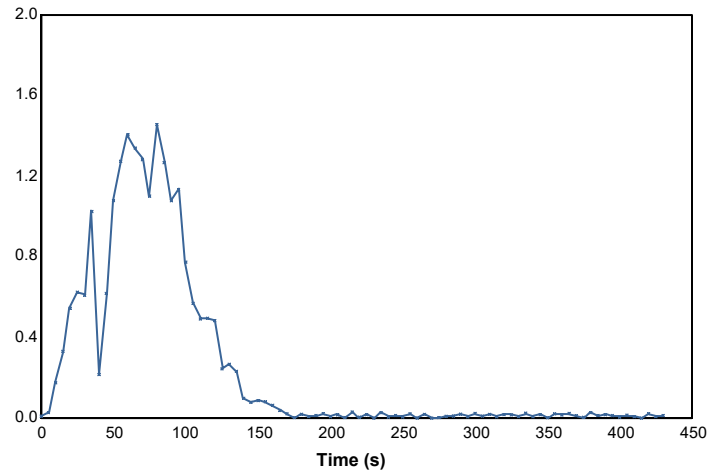
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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