

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 : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 22-003220
Issue Date : 25/08/2022
Print Date : 26/08/2022

Sample Description Clients Ref : "Gitane"
Woven textured printed wallpapers
Colour : Beige with various print
Nominal Composition : Vinyl with cellulose backing
Nominal Mass per Unit Area/Density : 460g/m2
Nominal Thickness : Approx: 1mm



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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 25-08-2022
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	27.7	30.1	25.1	27.7	kW/m ²
Average Specific extinction area	157.9	164.5	160.9	161.1	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	14	11	13	13	sec
Test duration	195	192	194	194	sec
Peak heat release after ignition	101.1	130.2	127.7	119.7	kW/m ²
Average heat at 60 s	61.1	65.3	62.8	63.1	kW/m ²
Average heat at 180 s	27.7	30.1	25.1	27.7	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	5.0	5.6	4.6	5.1	MJ/m ²
Average effective heat of combustion	5.8	6.5	4.9	5.7	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	93	95.4	94.9	94.4	g
Mass remaining	86.0	88.8	87.4	87.4	g
Mass percentage pyrolysed	7.6	6.9	7.9	7.5	%

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Mass loss	0.9	0.8	0.9	0.9	kg/m ²
Average rate of mass loss	4.8	4.6	5.2	4.9	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.

Samples were adhered to a substrate of 6mm thick cement sheet using Roberts 656 wallcovering adhesive prior to testing

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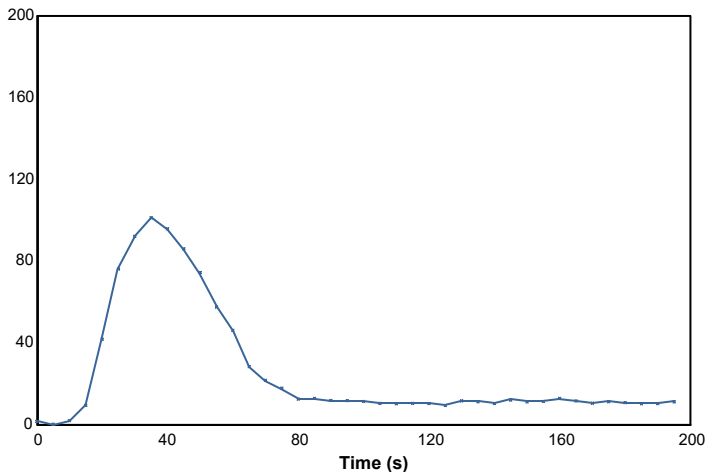
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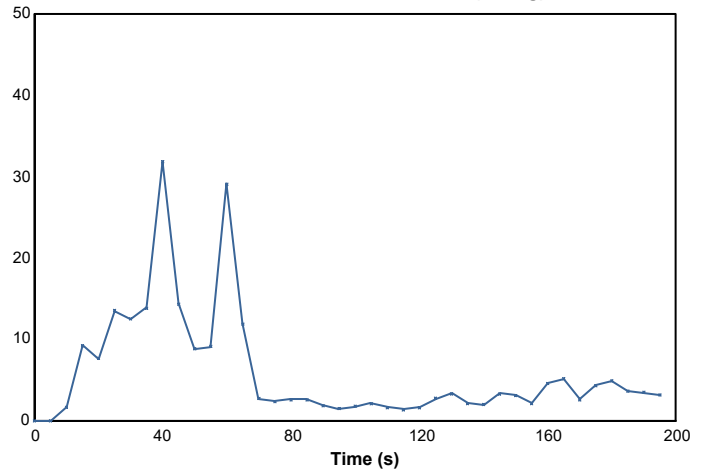
Test Number : 22-003220
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Specimen : 1

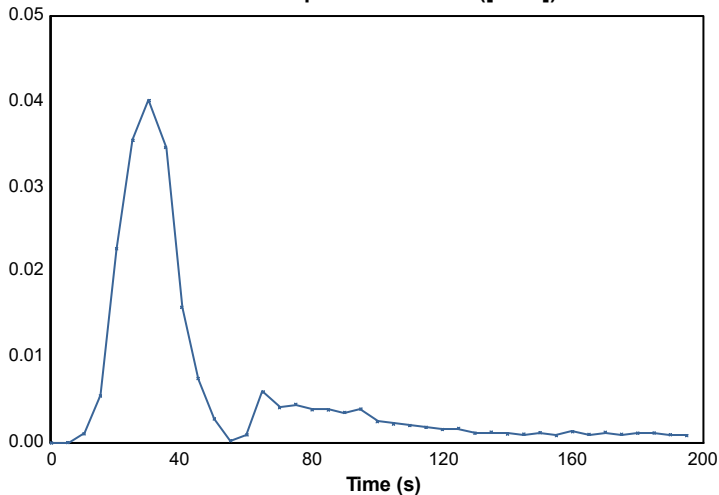
Heat release rate (kW/m²)



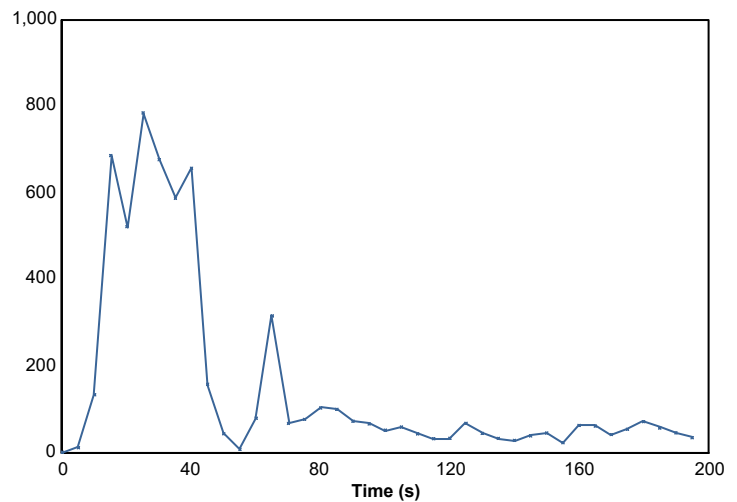
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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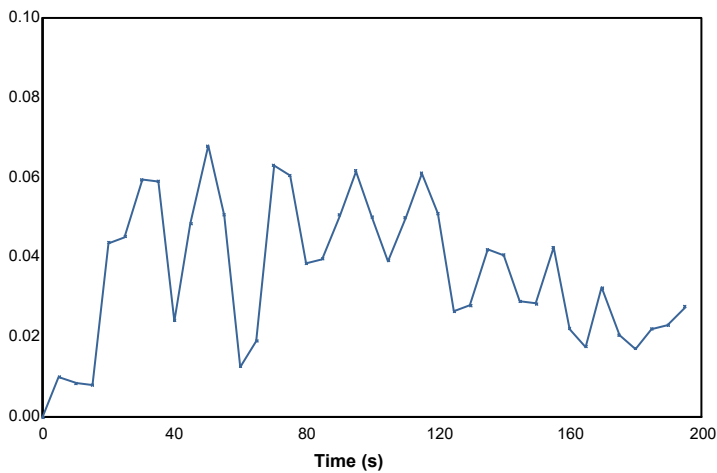
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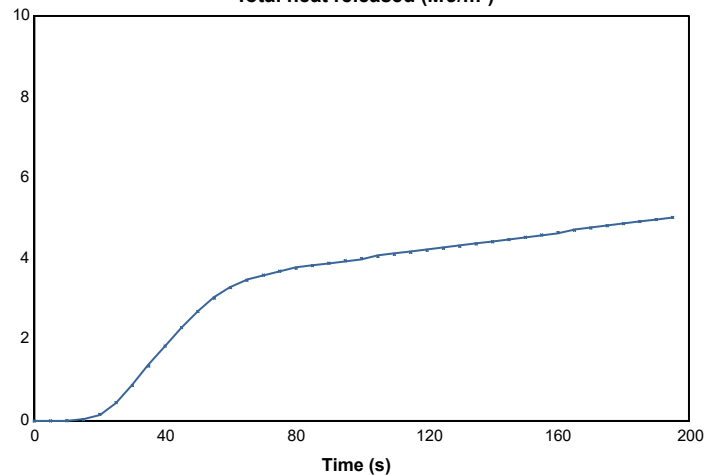
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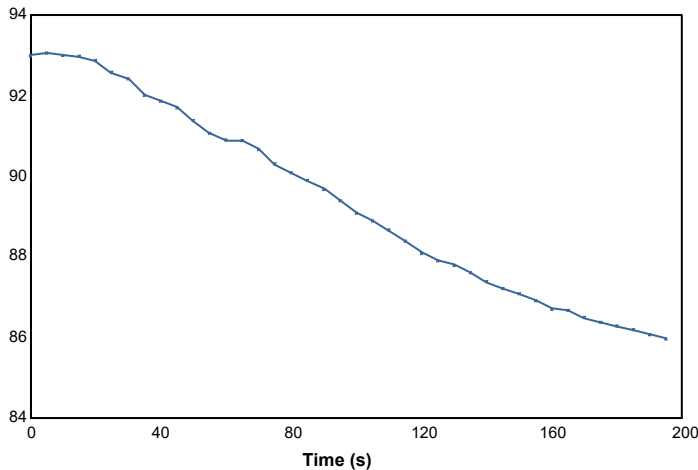
Mass loss rate (g/s)



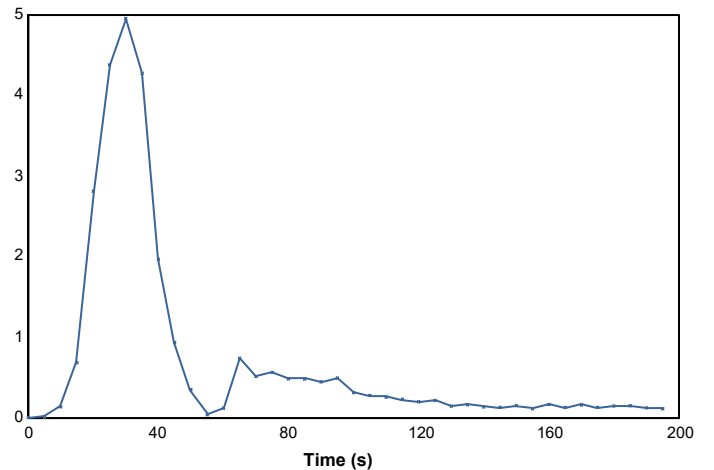
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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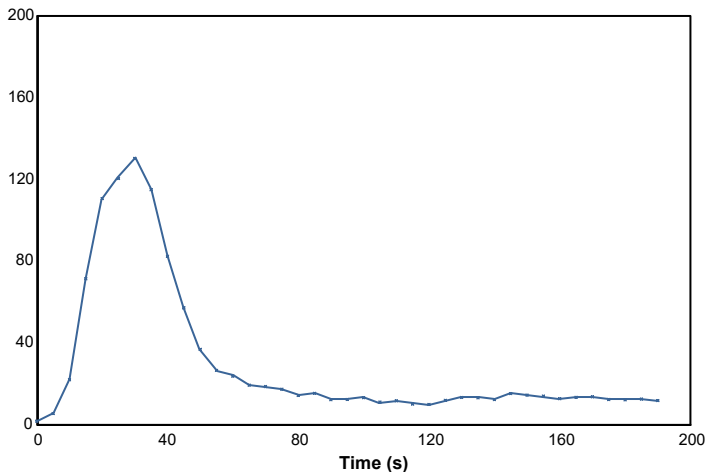
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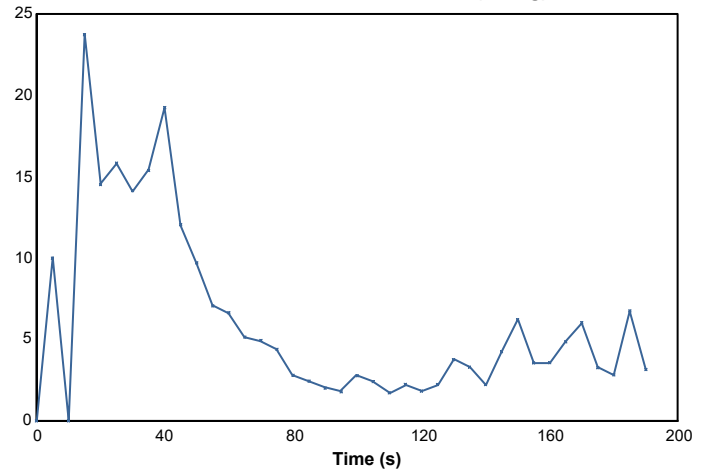
Test Number : 22-003220
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Specimen : 2

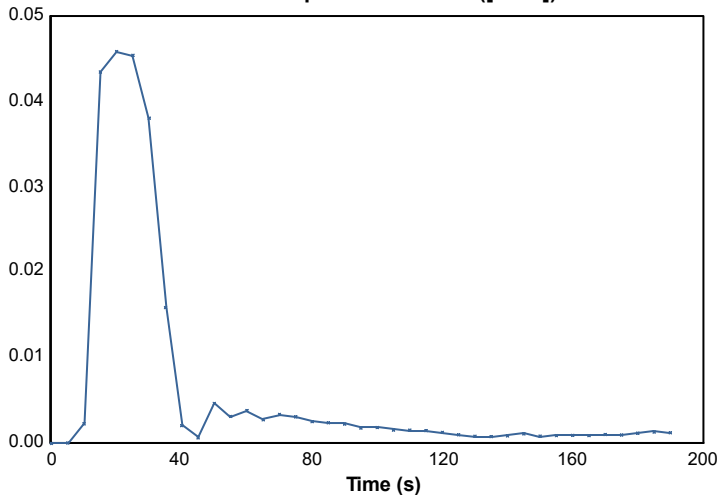
Heat release rate (kW/m²)



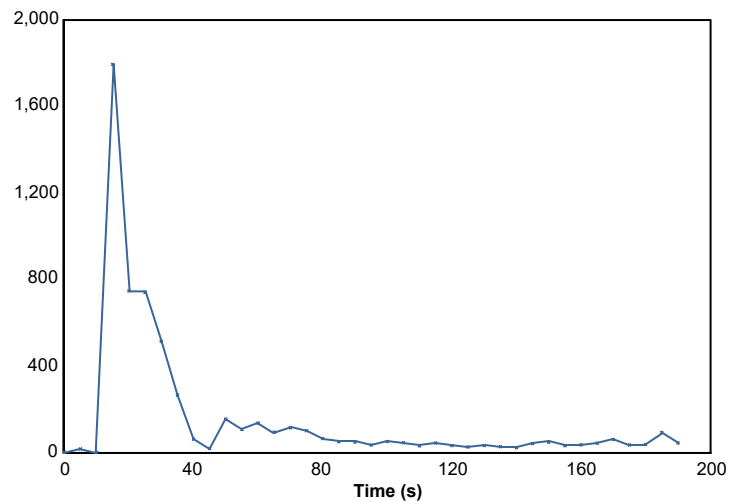
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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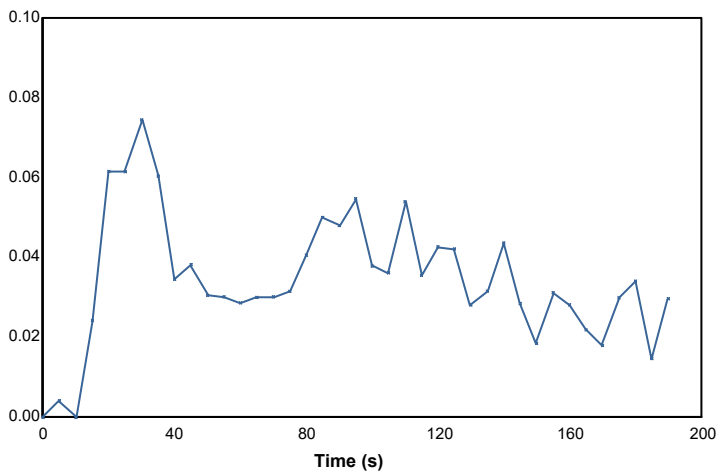
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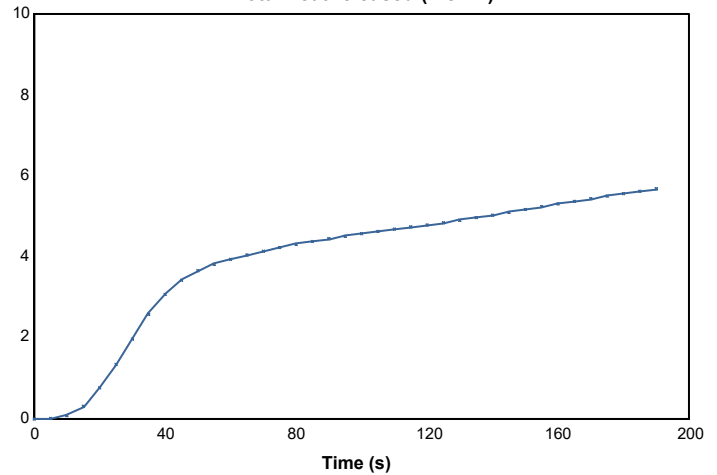
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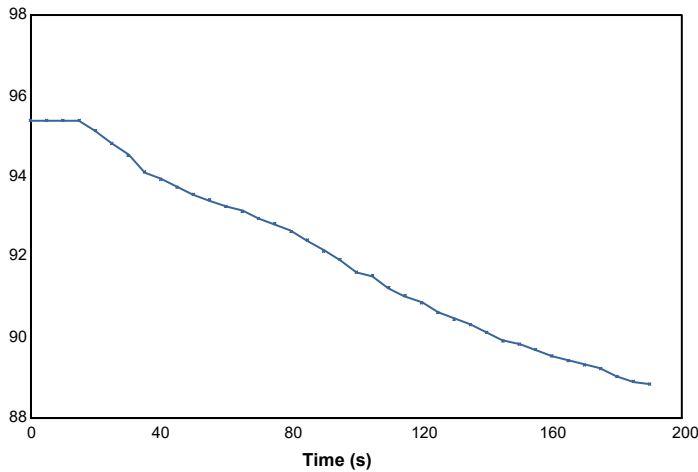
Mass loss rate (g/s)



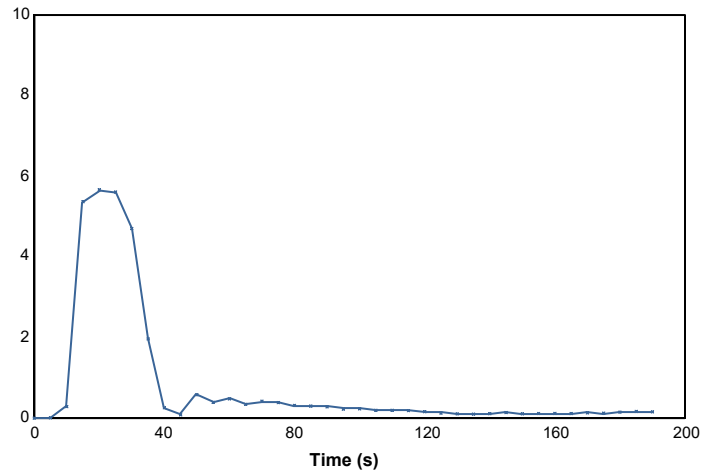
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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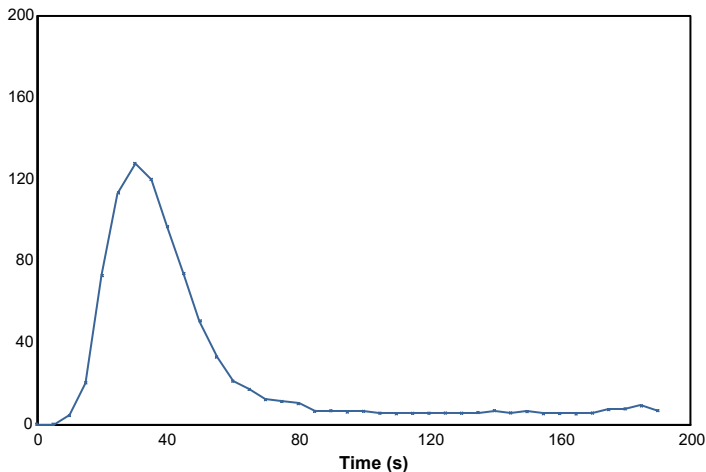
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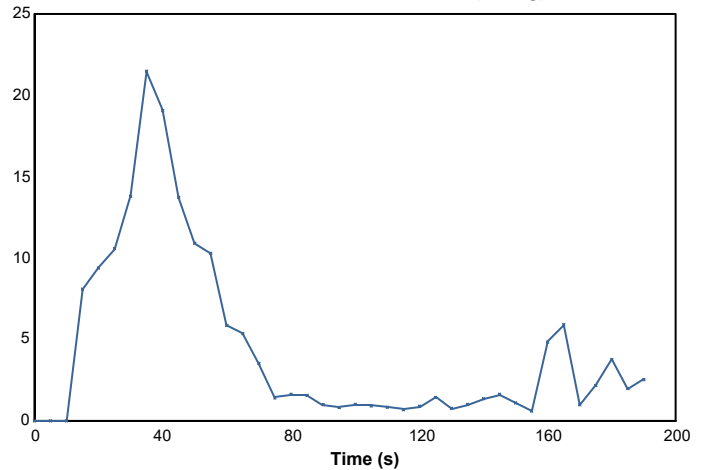
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Specimen : 3

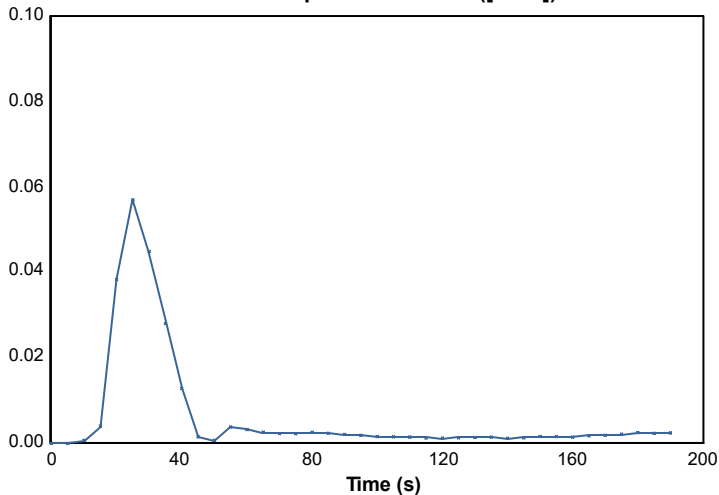
Heat release rate (kW/m²)



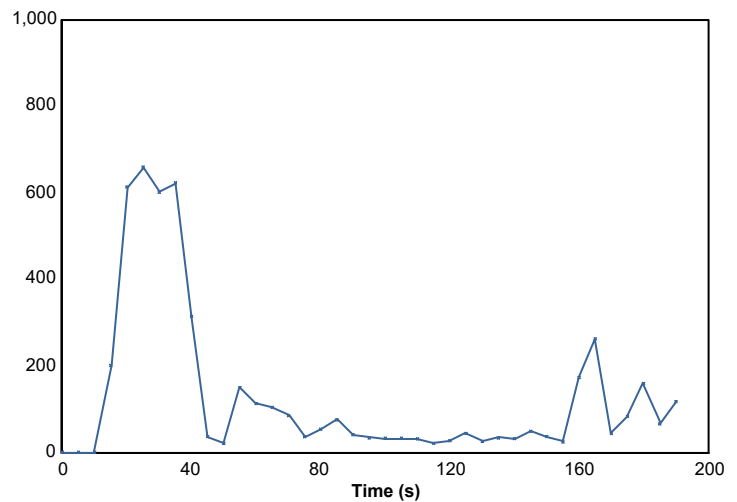
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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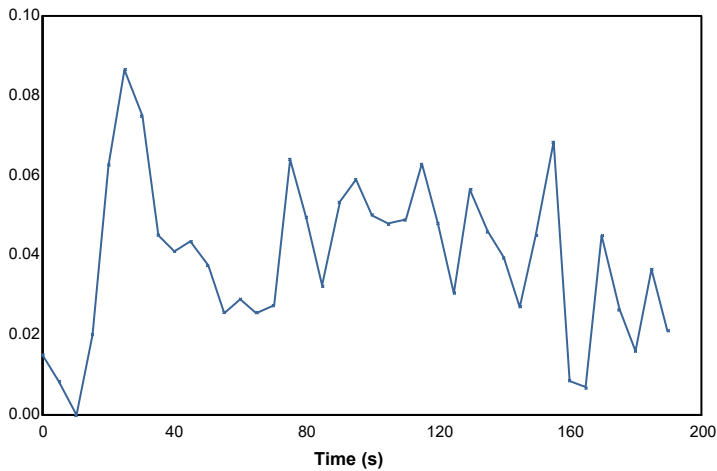
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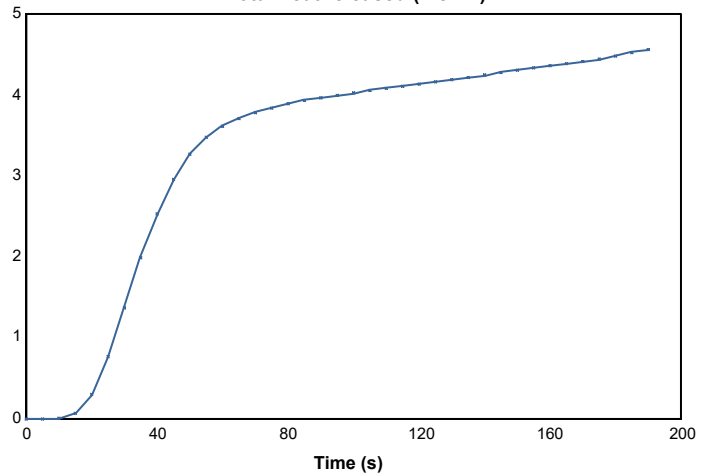
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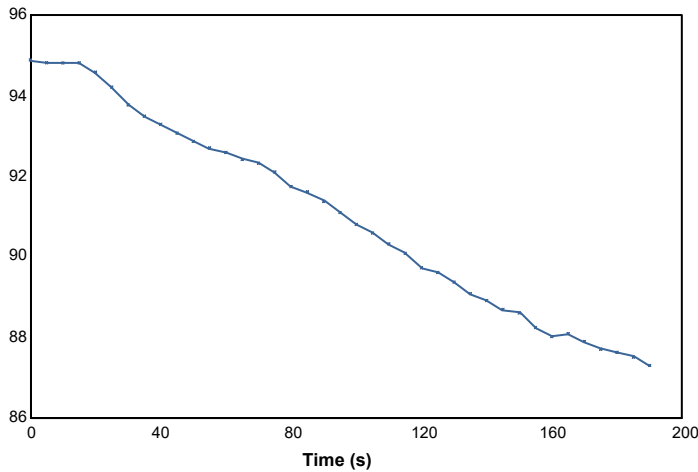
Mass loss rate (g/s)



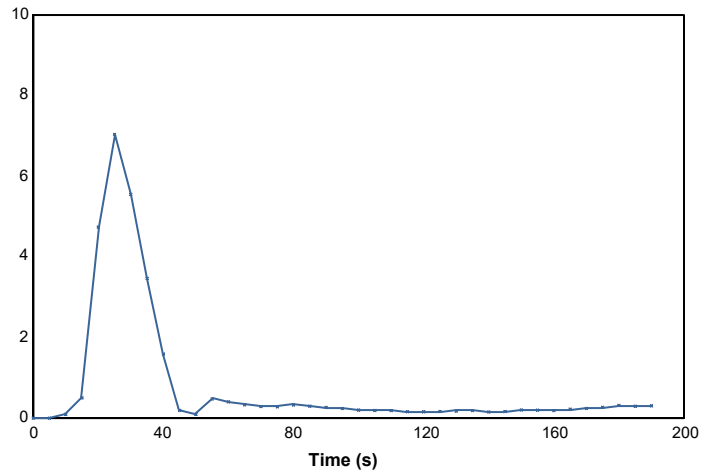
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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