

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 : Orafol Australia
8 Blanck Street
Ormeau QLD 4208

Test Number : 22-004152
Issue Date : 28/10/2022
Print Date : 31/10/2022

Sample Description Clients Ref : "Oracal 970RA Series"
Coloured self adhesive film
Colour : Grey
End Use : Wrapping onto Vehicles or apply to Signs
Nominal Composition : PVC face film with acrylic adhesive
Nominal Thickness : 110 microns



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Accreditation Numbers: 983, 985, and 1356

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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 28-10-2022
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	29.2	32.4	32.1	31.2	kW/m ²
Average Specific extinction area	54.4	64.2	58.5	59.1	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	7	9	9	8	sec
Test duration	190	192	199	194	sec
Peak heat release after ignition	89.4	105.0	101.9	98.8	kW/m ²
Average heat at 60 s	56.9	62.6	59.9	59.8	kW/m ²
Average heat at 180 s	29.2	33.0	33.2	31.8	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	5.3	5.9	6.1	5.8	MJ/m ²
Average effective heat of combustion	5.2	6.1	5.7	5.6	MJ/kg
Initial thickness	10.1	10.1	10.1	10.1	mm
Initial mass	60.5	58.2	59.2	59.3	g
Mass remaining	52.1	50.4	50.6	51.0	g
Mass percentage pyrolysed	13.9	13.4	14.5	13.9	%

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Sean Bassett

APPROVED SIGNATORY

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

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Mass loss	1.0	1.0	1.1	1.0	kg/m ²
Average rate of mass loss	5.7	5.3	5.7	5.5	g/m ² .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

Each specimen was self adhered to 10mm thick plasterboard prior to testing

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

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.

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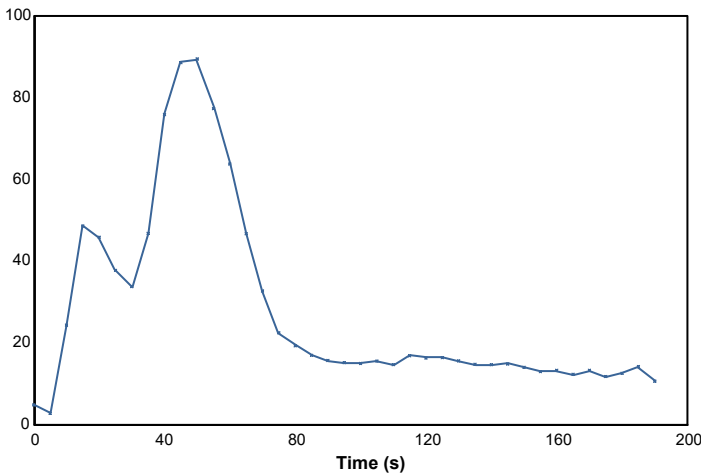
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Client : Orafol Australia
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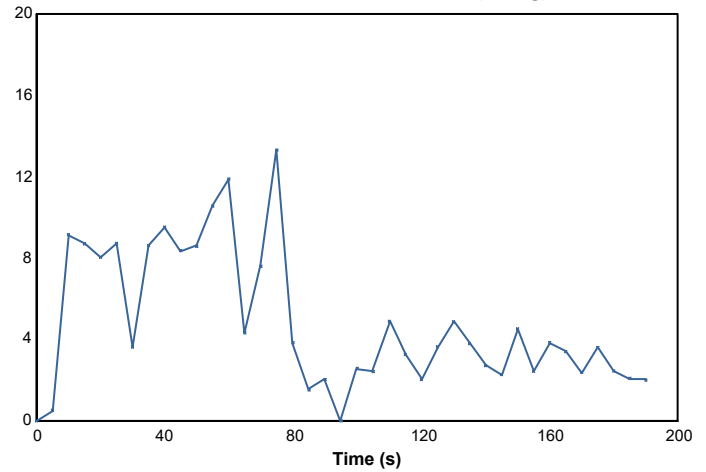
Test Number : 22-004152
Issue Date : 28/10/2022
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Specimen : 1

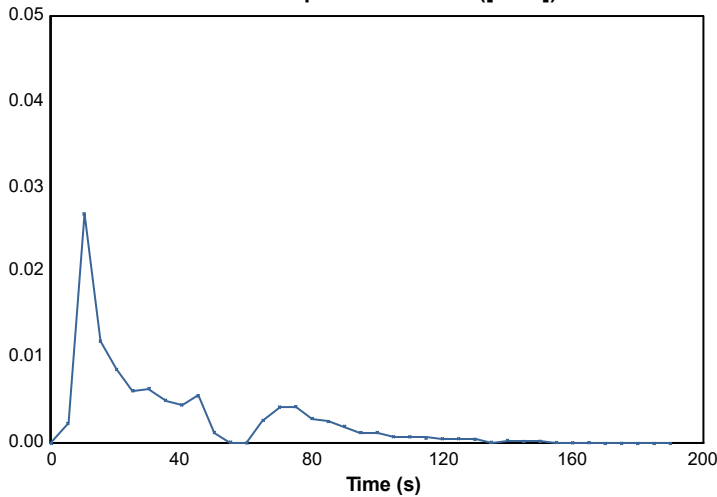
Heat release rate (kW/m²)



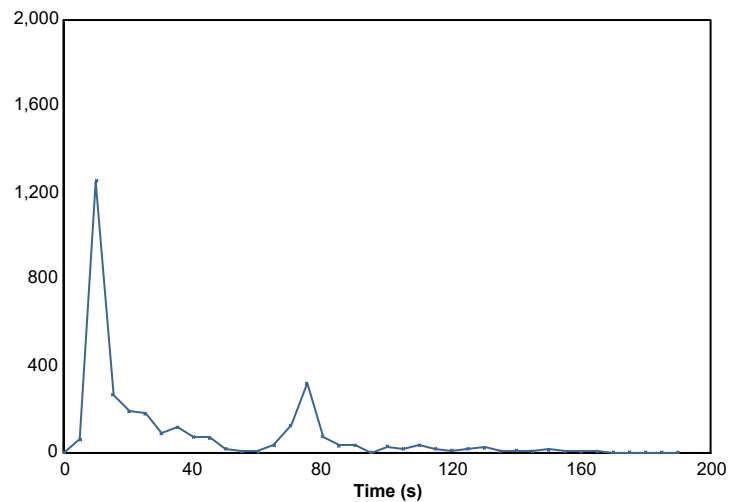
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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APPROVED SIGNATORY

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

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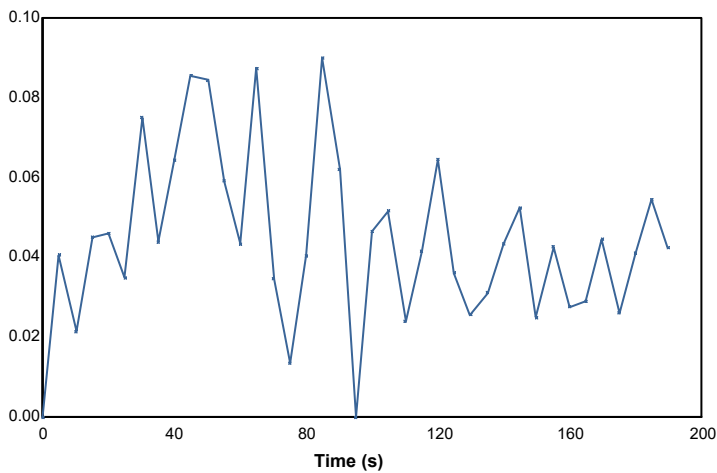
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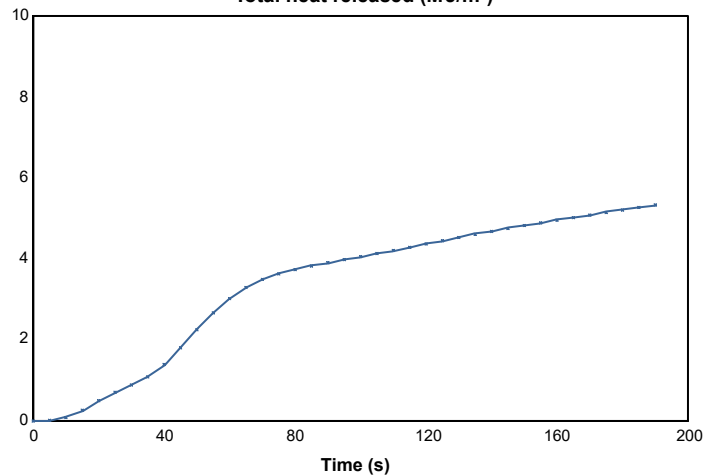
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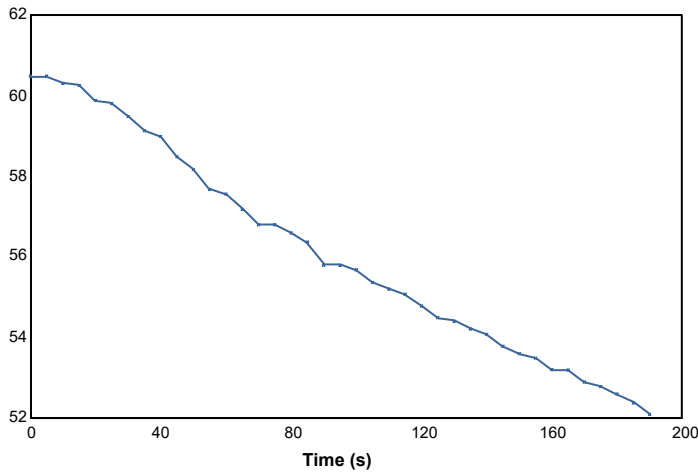
Mass loss rate (g/s)



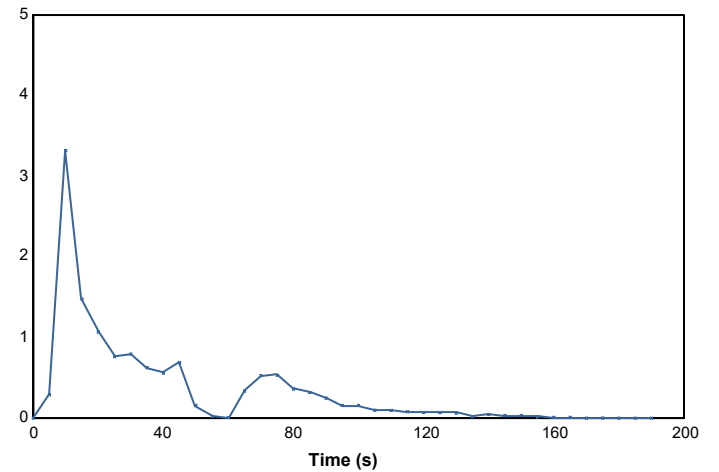
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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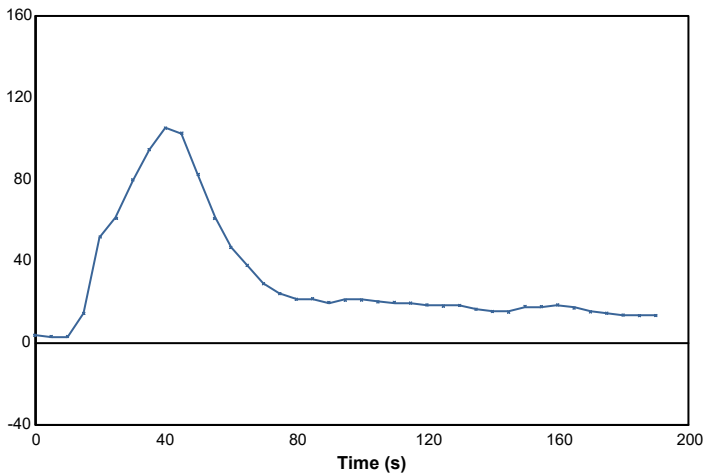
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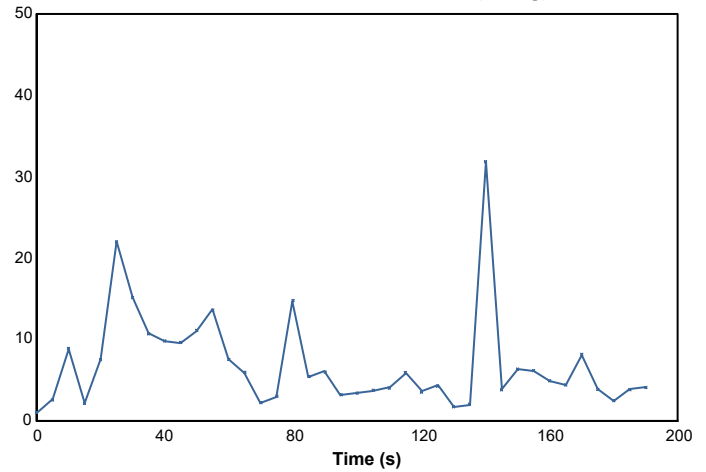
Test Number : 22-004152
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Specimen : 2

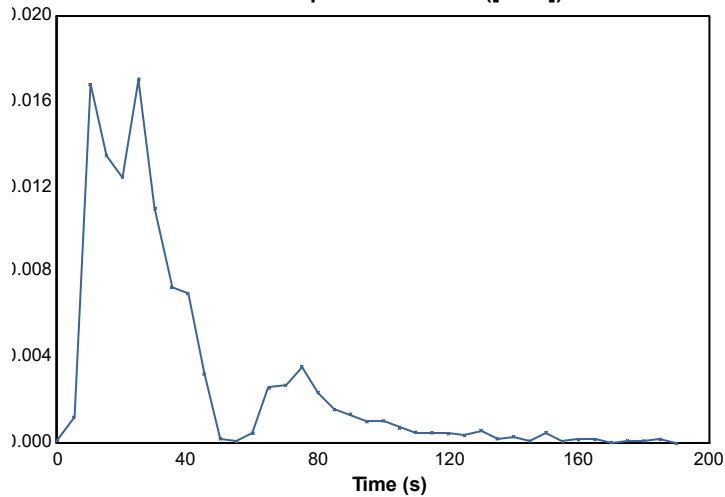
Heat release rate (kW/m²)



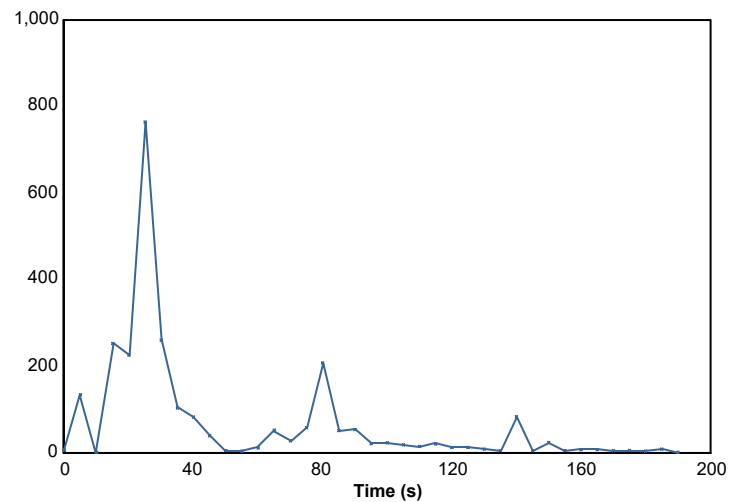
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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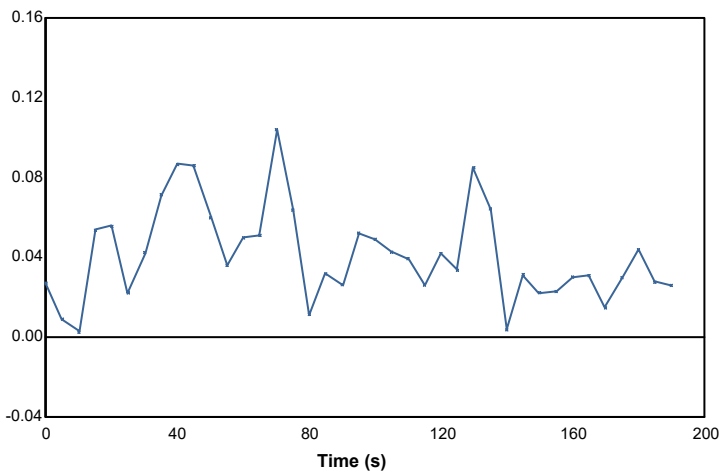
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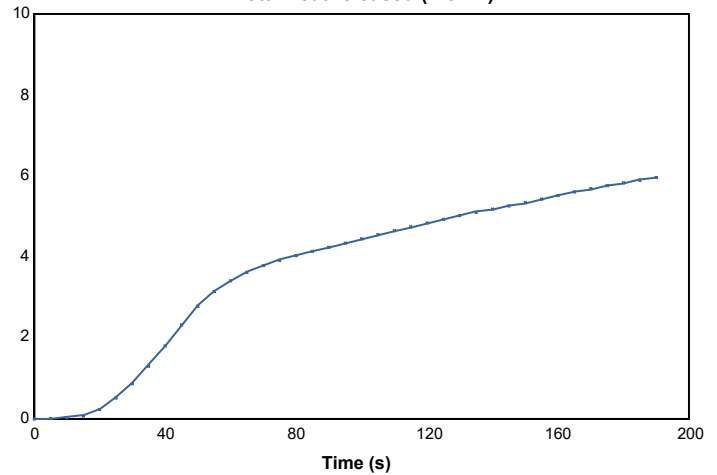
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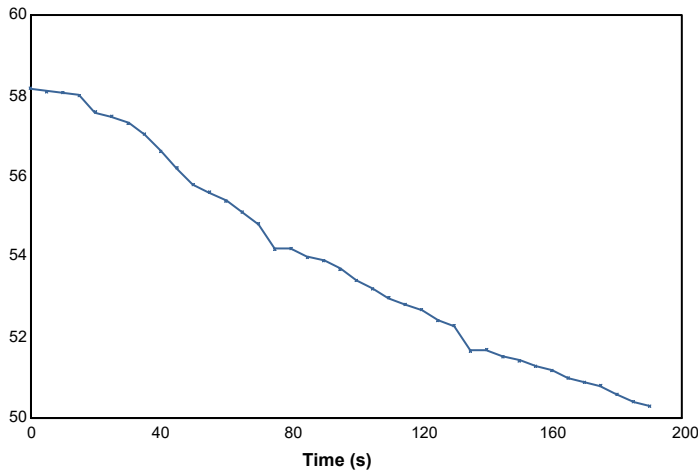
Mass loss rate (g/s)



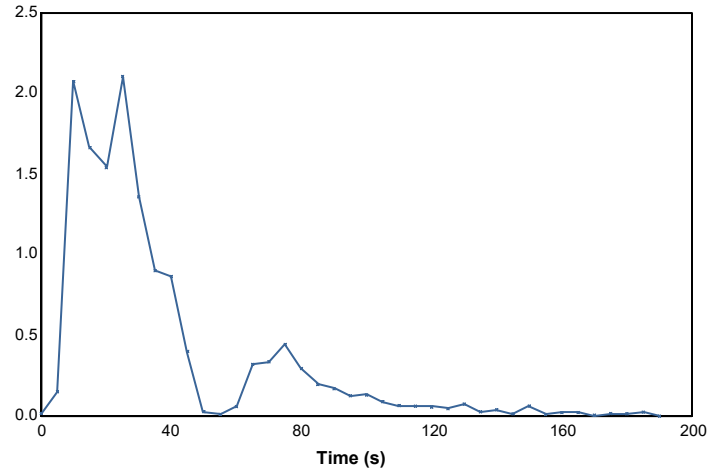
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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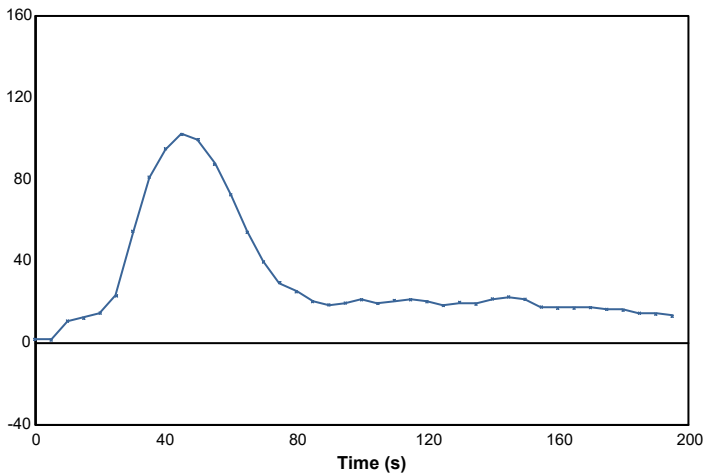
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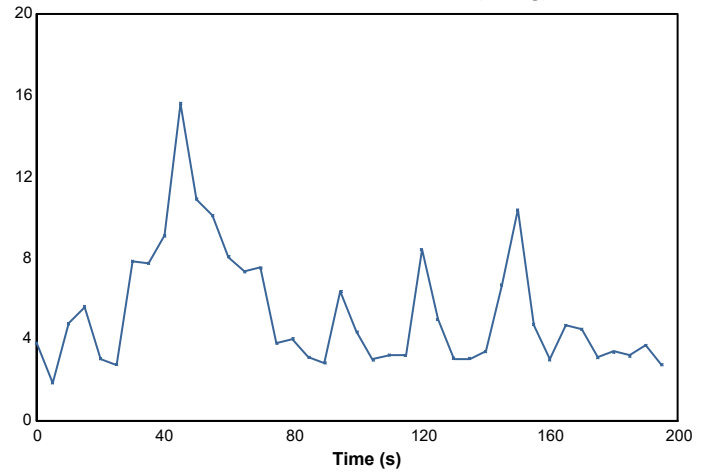
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Specimen : 3

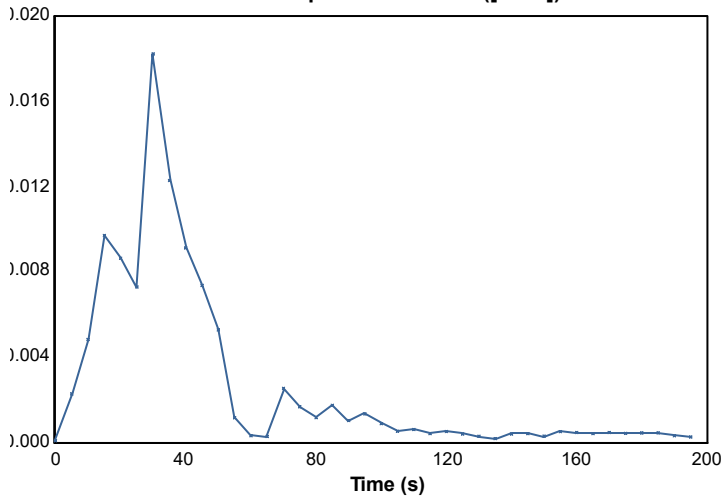
Heat release rate (kW/m²)



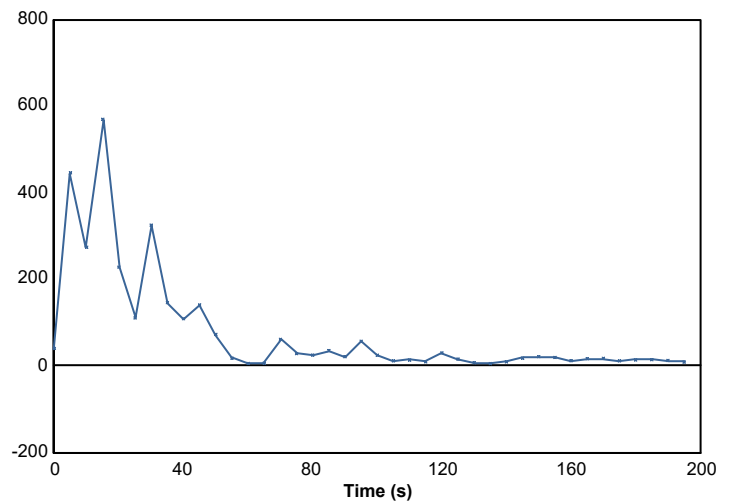
Effective heat of combustion (MJ/kg)



Smoke production rate ([m³/s])



Specific extinction area (m²/kg)



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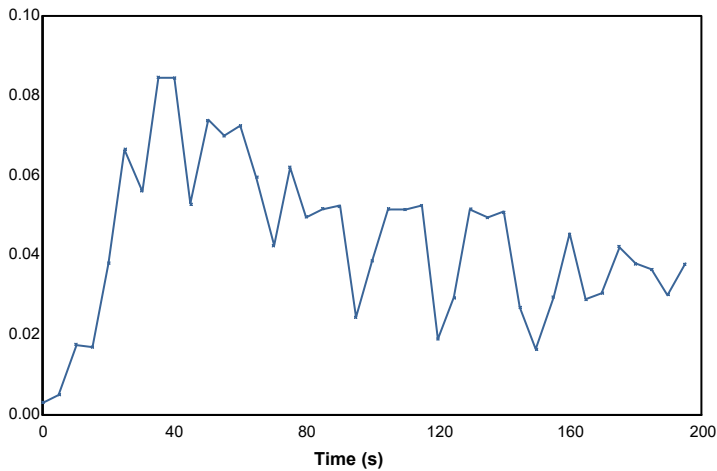
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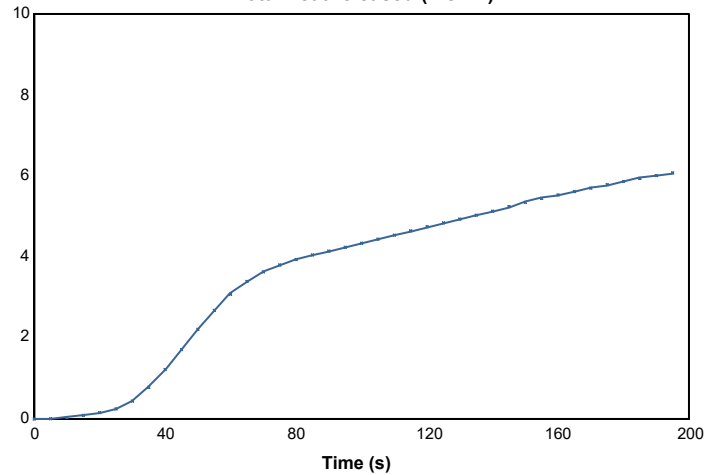
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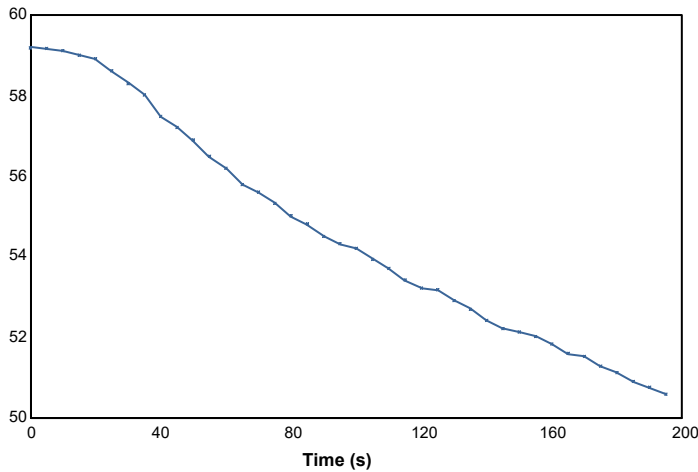
Mass loss rate (g/s)



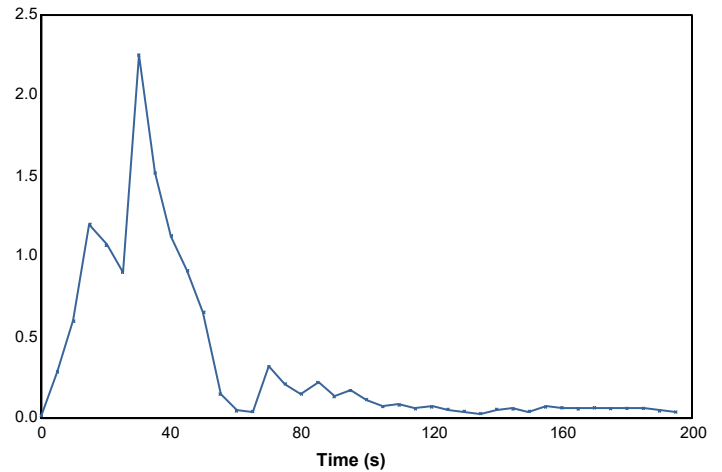
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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