

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 : 21-002729
Issue Date : 11/06/2021
Print Date : 11/06/2021

Sample Description Clients Ref : "Orajel 3162"
Flexible self-adhesive film
Colour : White
End Use : Wall Covering
Nominal Composition : PVC
Nominal Thickness : 100 micron

AS/NZS 3837-1998

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

Date Tested 11-06-2021
Face Tested White

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	21.3	20.8	20.1	20.7	kW/m ²
Average Specific extinction area	42.5	44.9	39.1	42.2	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	29	36	33	sec
Test duration	223	229	241	231	sec
Peak heat release after ignition	77.5	81.1	76.0	78.2	kW/m ²
Average heat at 60 s	40.8	42.0	39.3	40.7	kW/m ²
Average heat at 180 s	21.9	22.2	21.8	22.0	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²

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Chris Campbell
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Total heat released	4.0	4.2	4.1	4.1	MJ/m ²
Average effective heat of combustion	3.8	3.8	3.9	3.8	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	60.2	59.7	60	60.0	g
Mass remaining	51.8	50.9	51.3	51.3	g
Mass percentage pyrolysed	14.0	14.8	14.5	14.4	%
Mass loss	1.0	1.1	1.1	1.1	kg/m ²
Average rate of mass loss	5.6	5.4	5.2	5.4	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.

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

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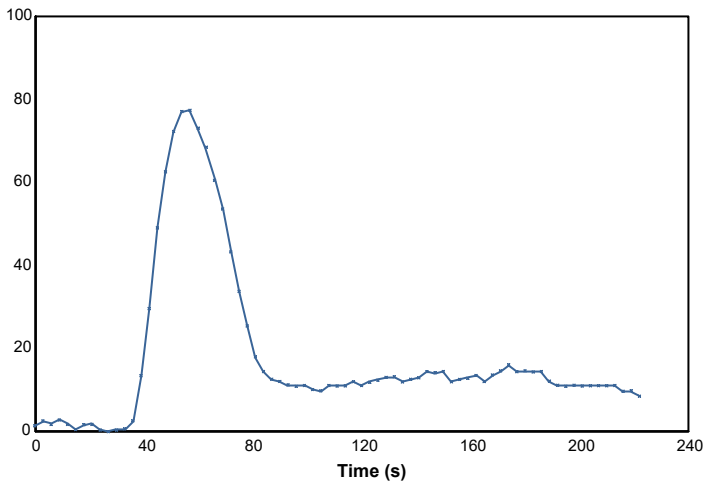
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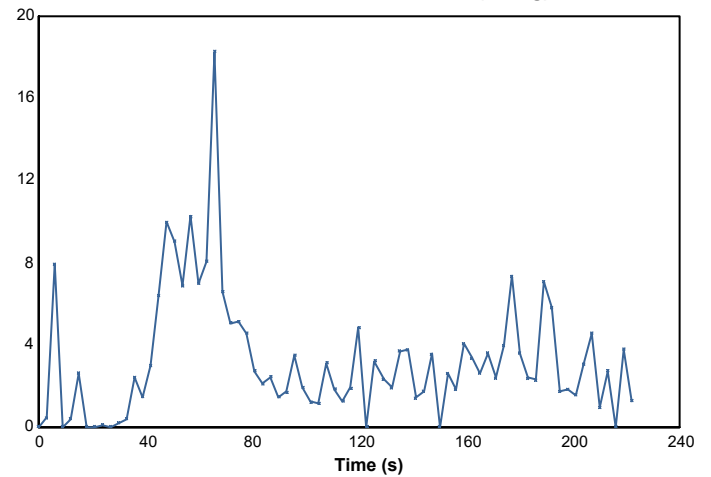
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Specimen : 1

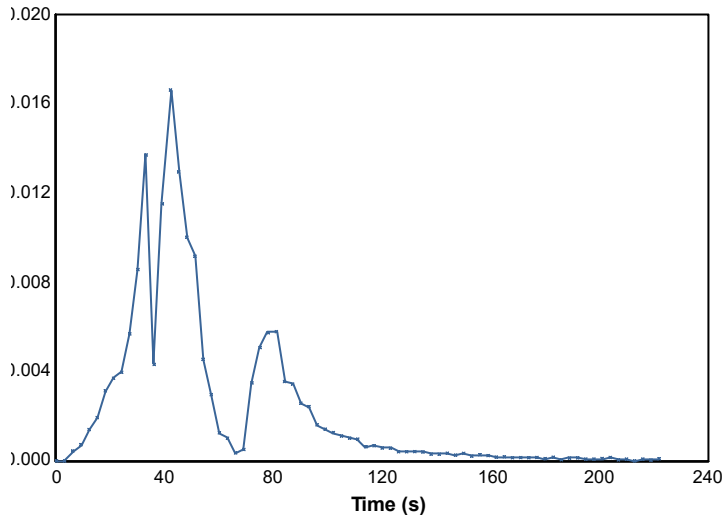
Heat release rate (kW/m²)



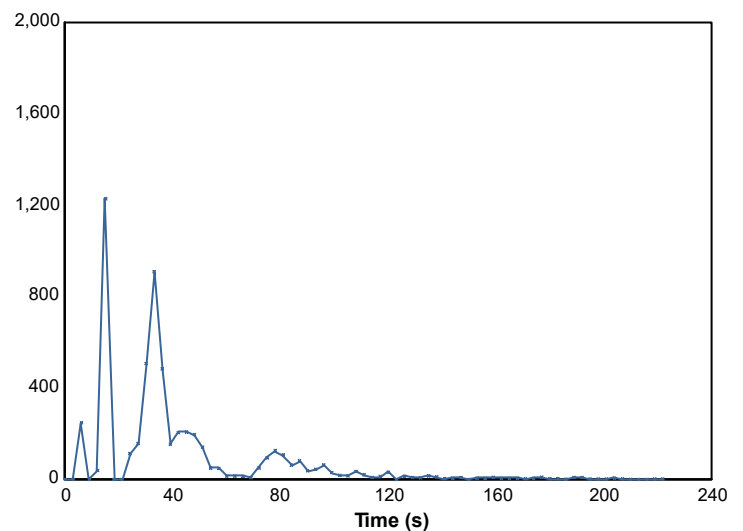
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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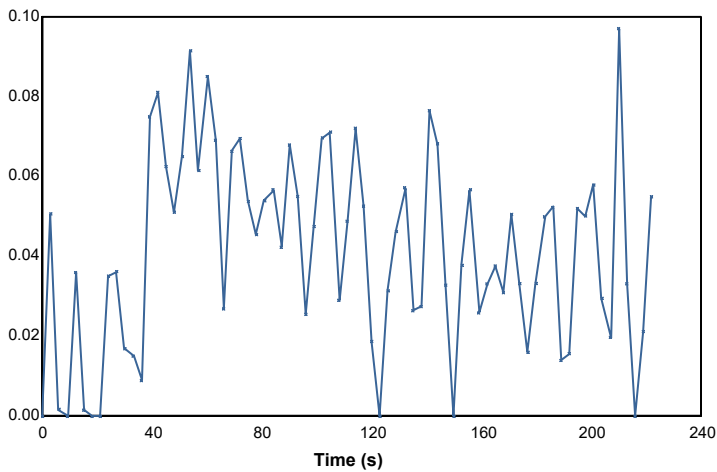
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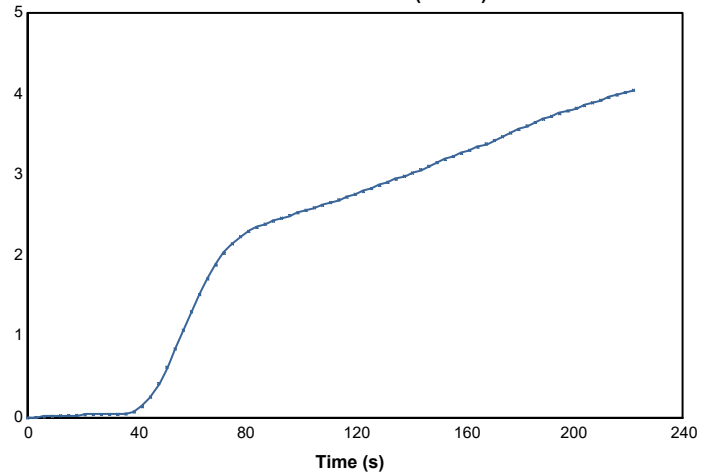
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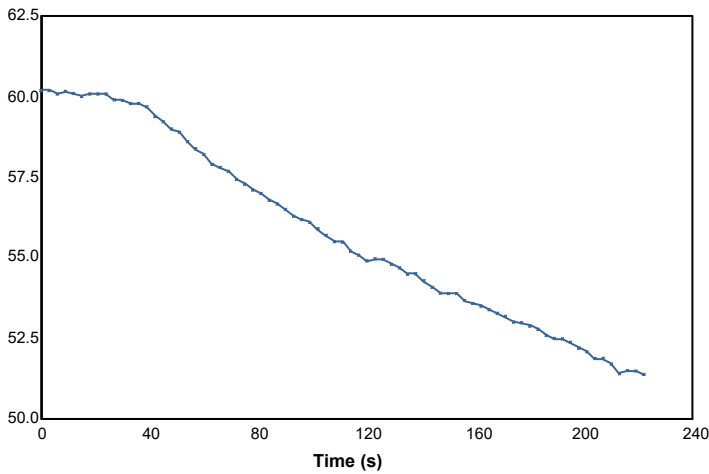
Mass loss rate (g/s)



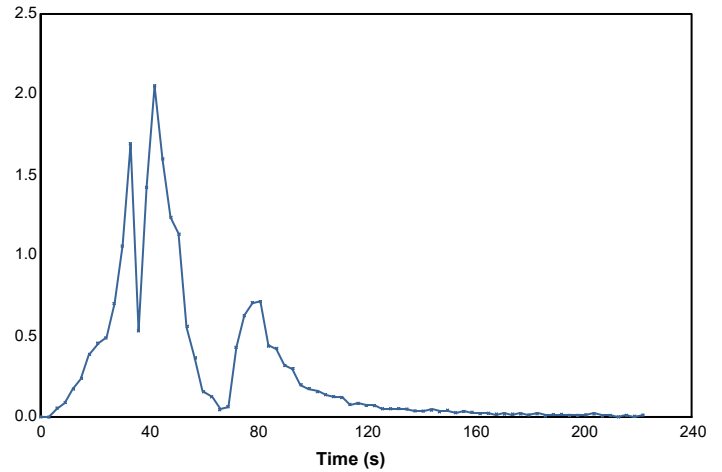
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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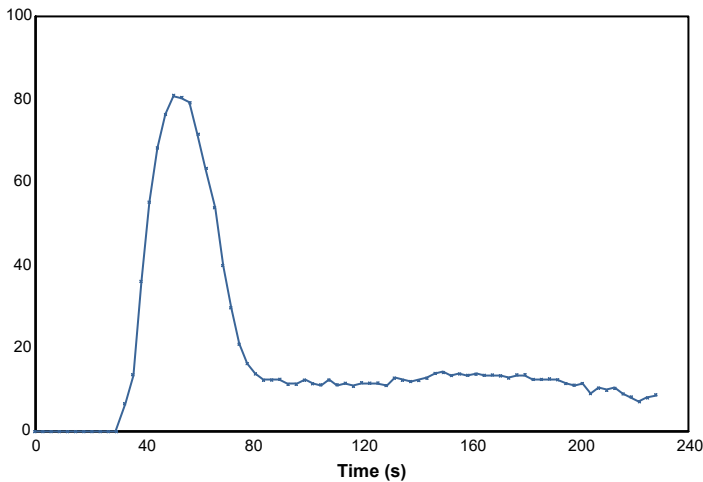
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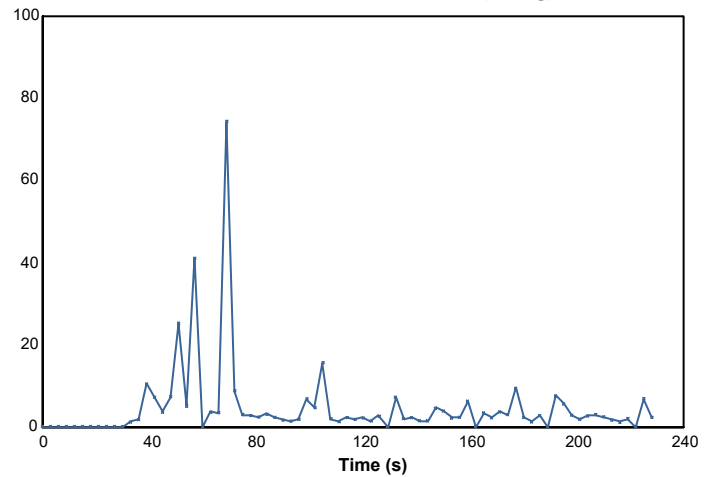
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Specimen : 2

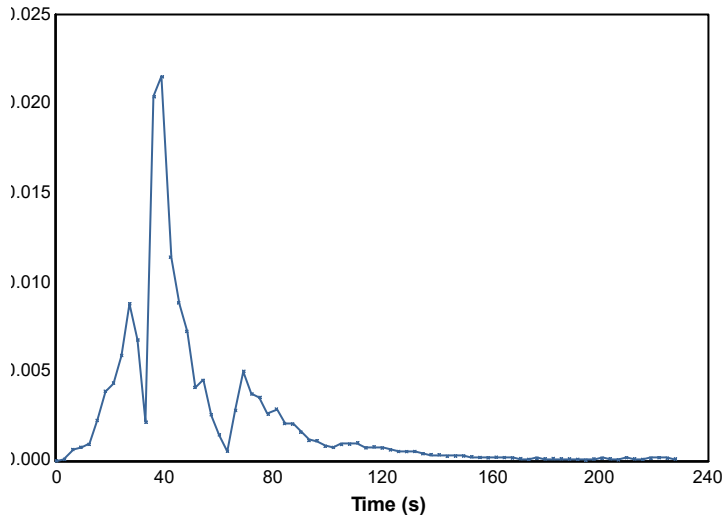
Heat release rate (kW/m²)



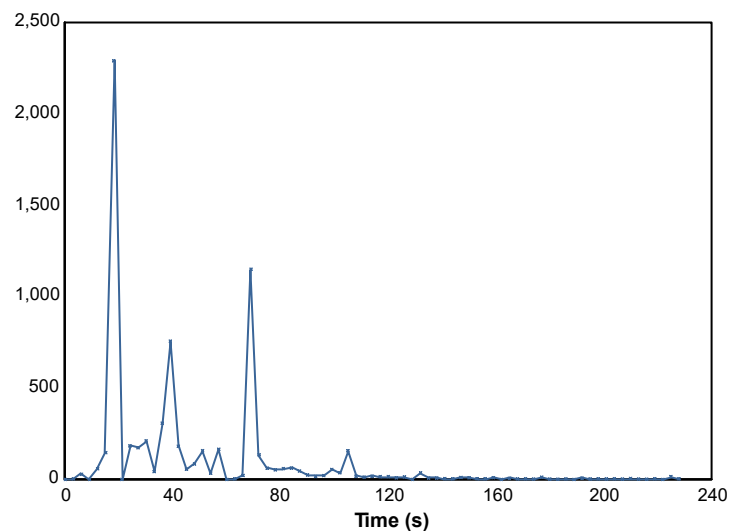
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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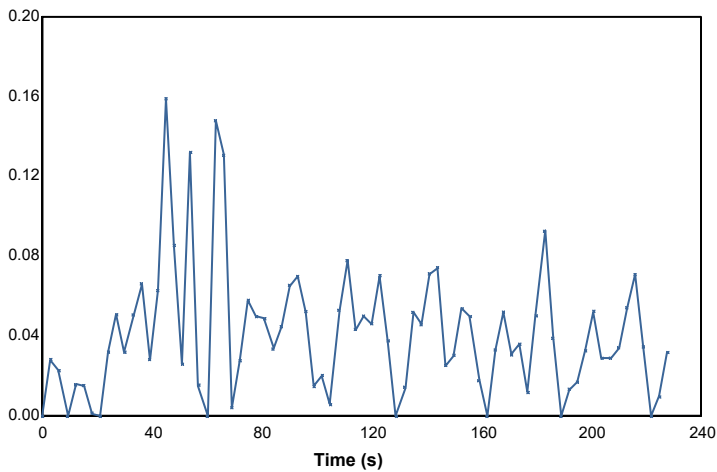
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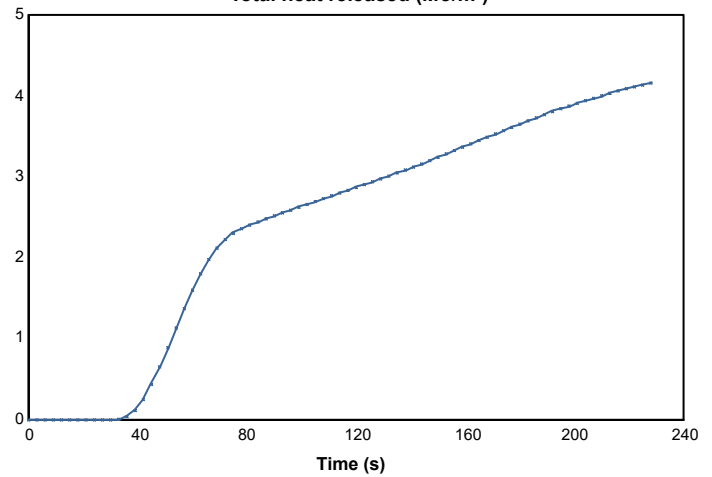
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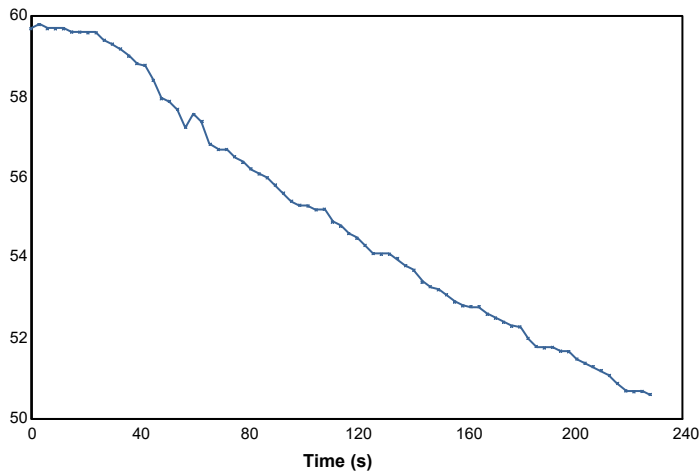
Mass loss rate (g/s)



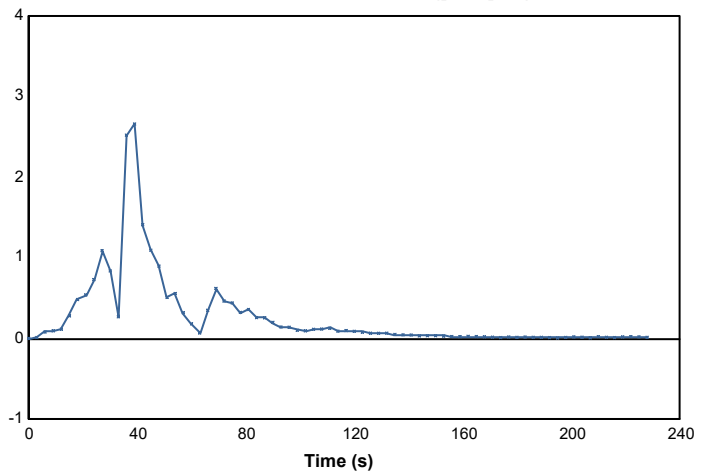
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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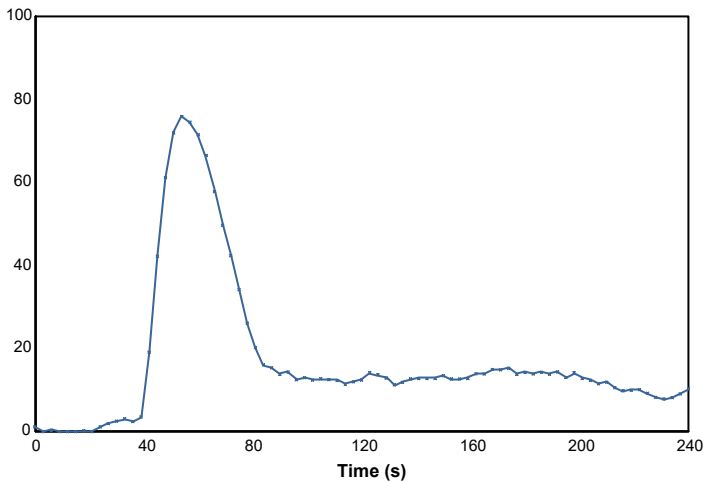
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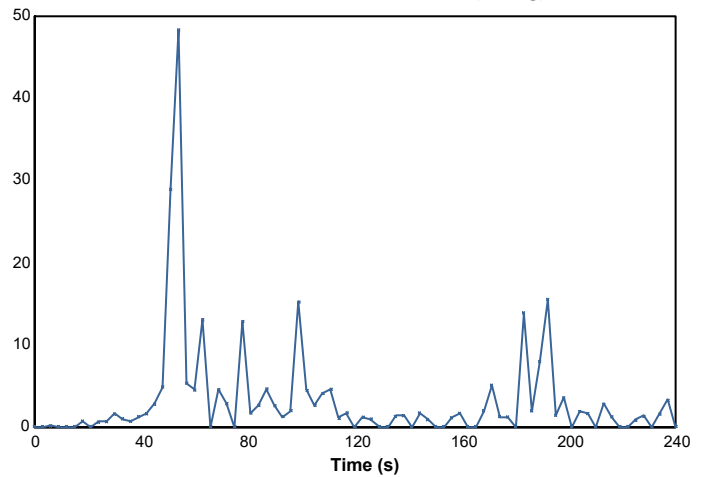
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Specimen : 3

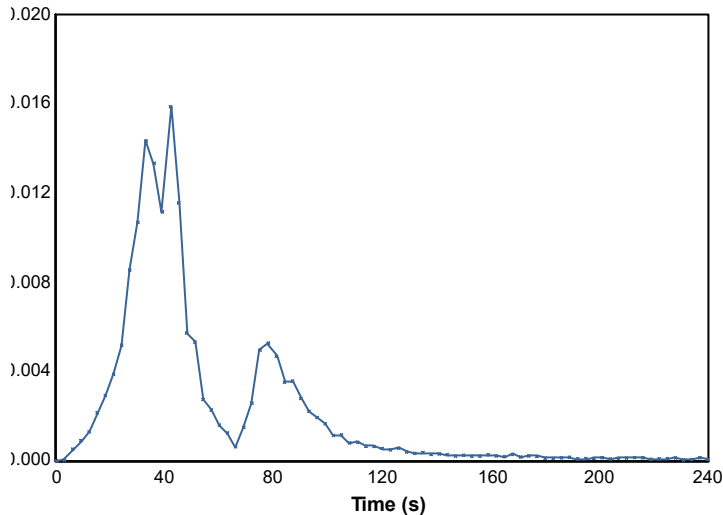
Heat release rate (kW/m²)



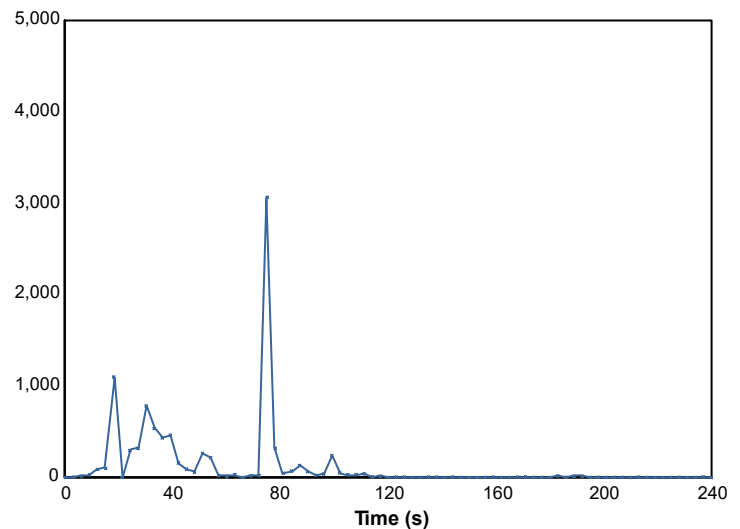
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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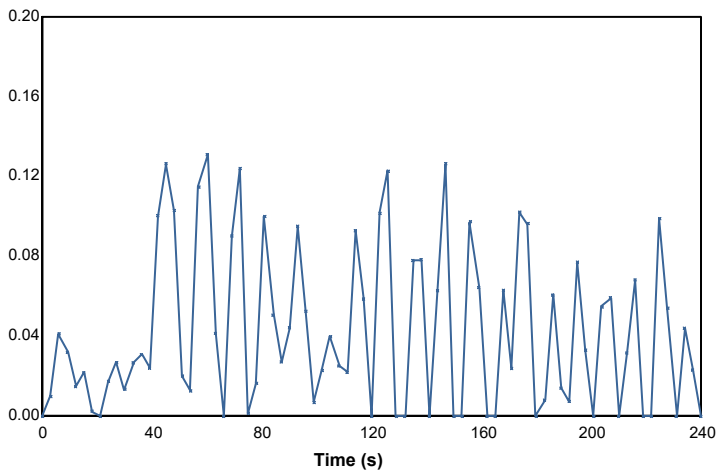
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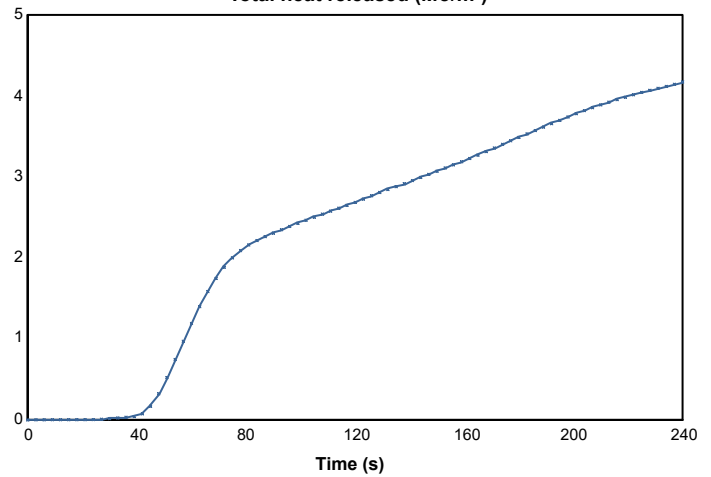
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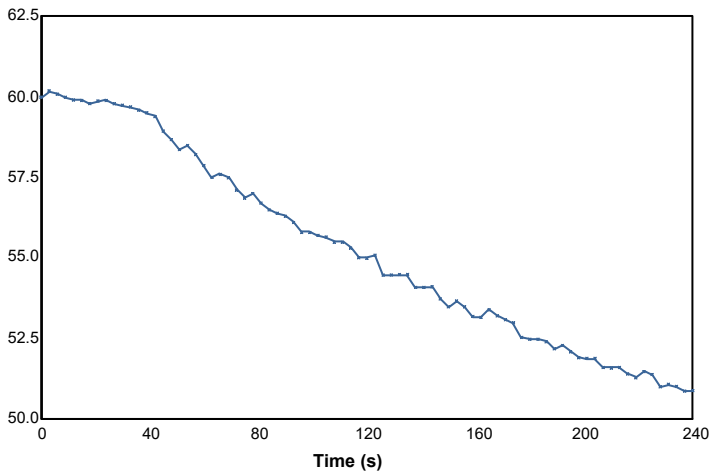
Mass loss rate (g/s)



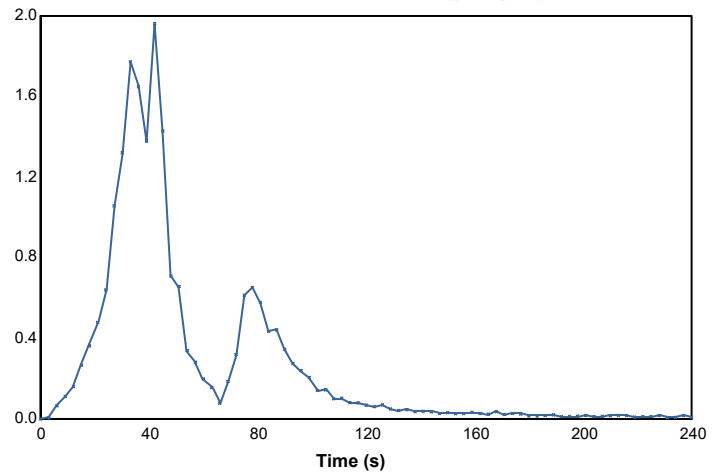
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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