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 : 23-002758
Issue Date : 20/07/2023
Print Date : 21/07/2023
Order Number : 18831

Sample Description

Clients Ref : "Oraguard 244"
Self adhesive flexible film
Colour : Clear
End Use : Anti Graffiti Film
Nominal Composition : Ethylene tetrafluoroethylene, solvent
Nominal Mass per Unit Area/Density : Approx: 150g/m2
Nominal Thickness : 70 micron

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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

0204/11/06

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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 20-07-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen 1	2	3	Mean	
Average Heat Release Rate	fti	fti	fti	fti	kW/m²
Average Specific extinction area	67.9	83.0	65.5	72.1	m²/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/m²
Exhaust flow rate	0.024	0.024	0.024	0.024	m³/s
Time to sustained flaming	fti	fti	fti	fti	sec
Test duration	600	600	600	600	sec
Initial thickness	6.1	6.1	6.1	6.1	mm
Initial mass	86.6	87.9	88.7	87.7	g
Mass remaining	71.8	72.0	73.5	72.4	g
Mass percentage pyrolysed	17.1	18.1	17.1	17.5	%

Additional Observations NONE

Difficulties Encountered during Testing NONE

fti = failed to ignite

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Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2(i).

Each specimen was self adhered to 6mm thick fibre reinforced cement sheet prior to testing

Retainer grid was used to contain the test specimen 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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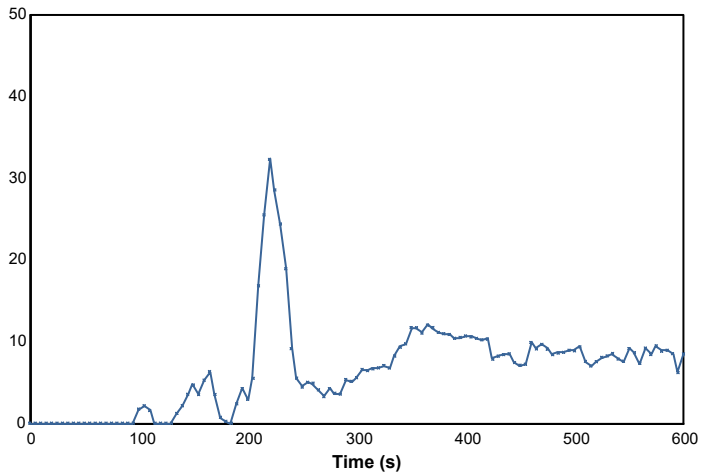
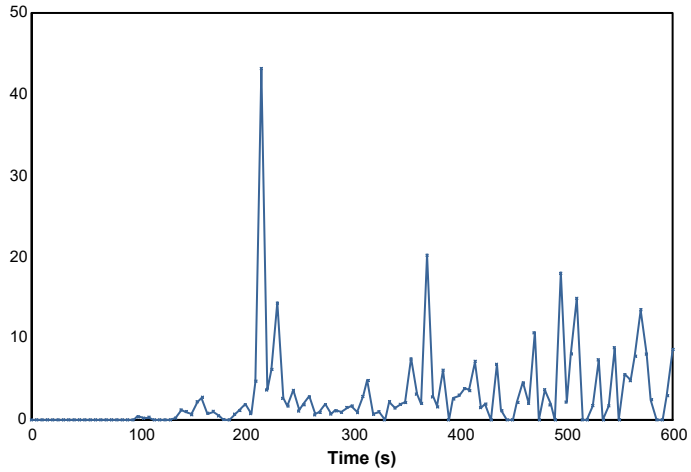
Specimen : 1

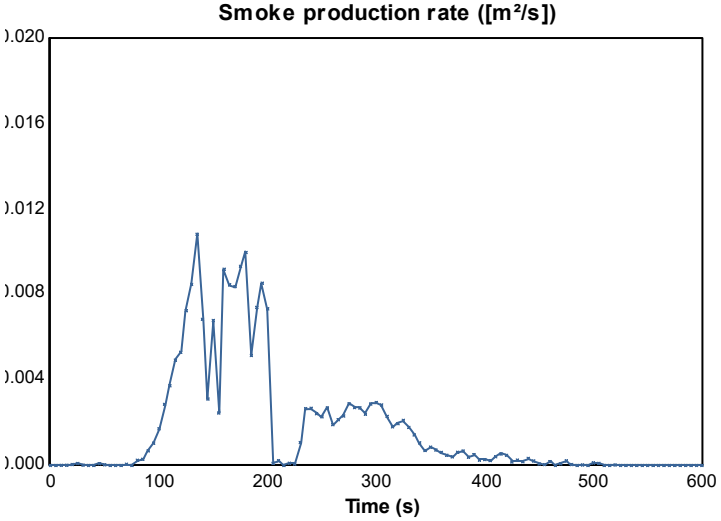
Heat release rate (kW/m²)



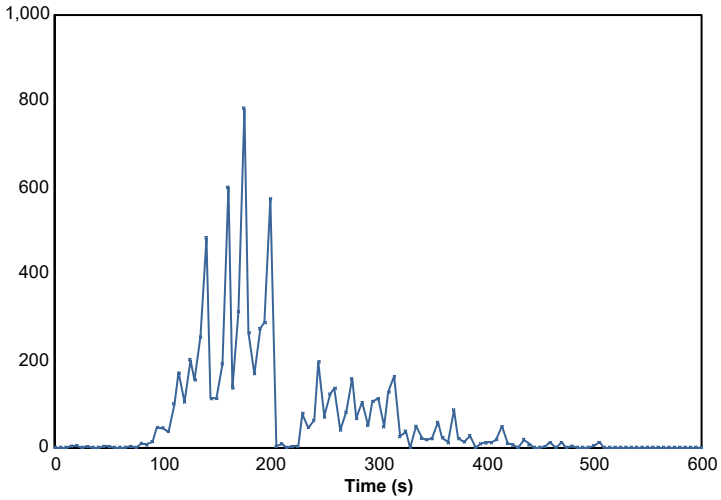
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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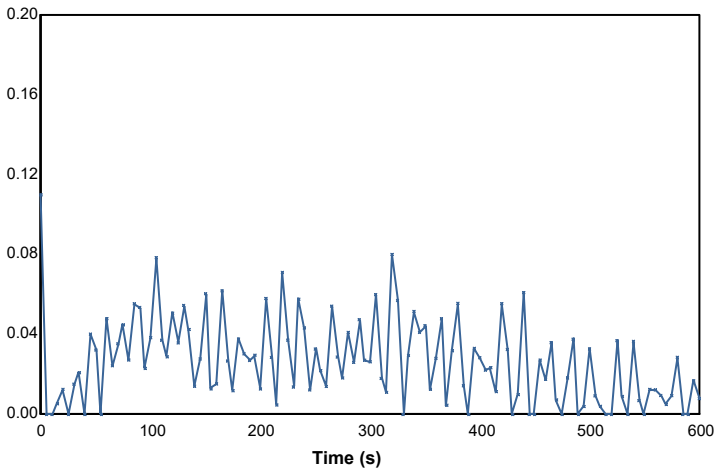
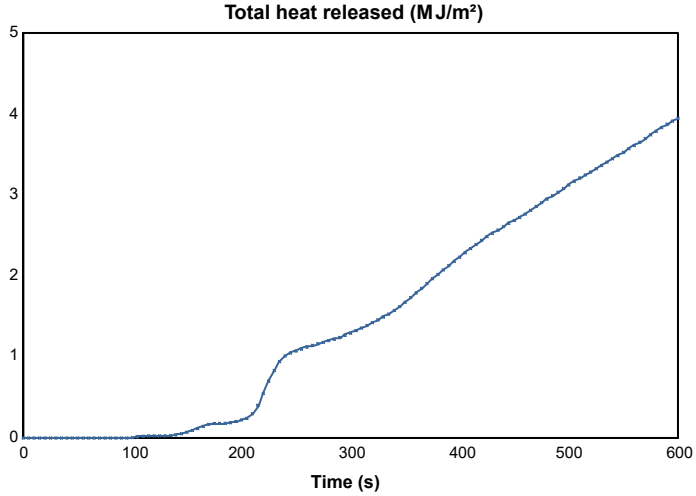
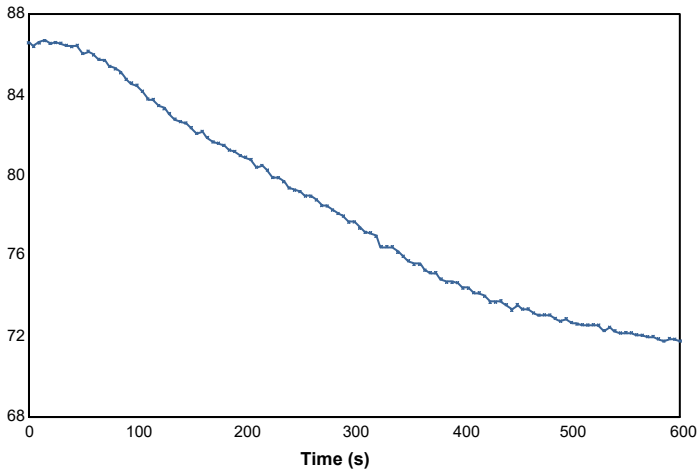
Mass loss rate (g/s)



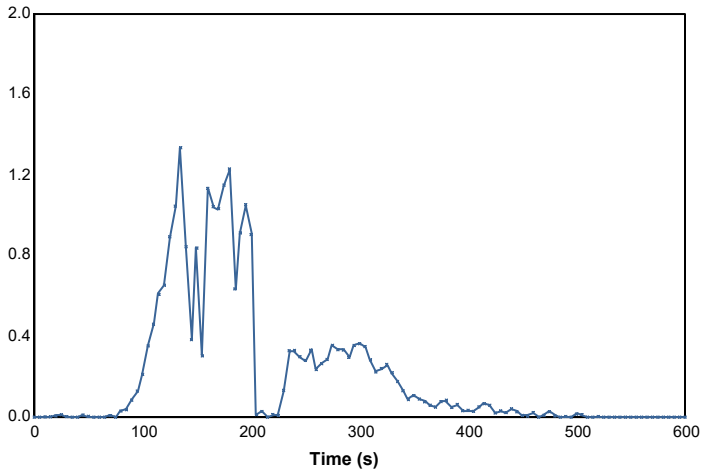
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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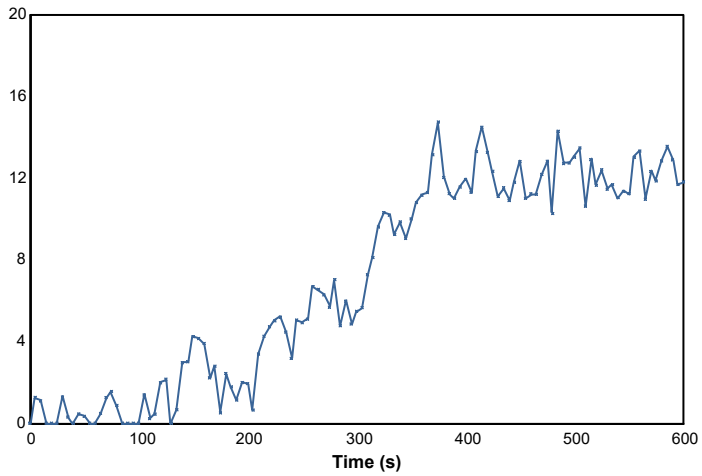
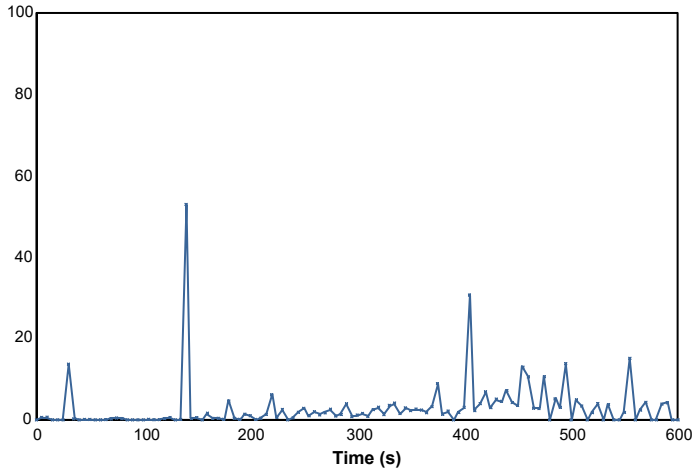
Specimen : 2

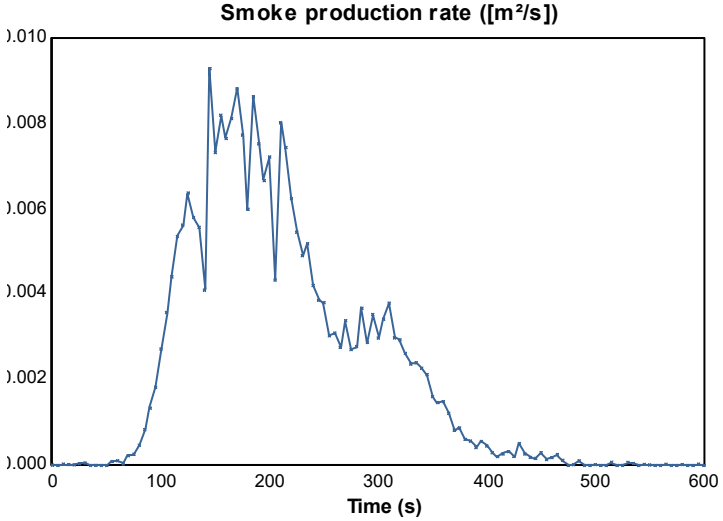
Heat release rate (kW/m²)



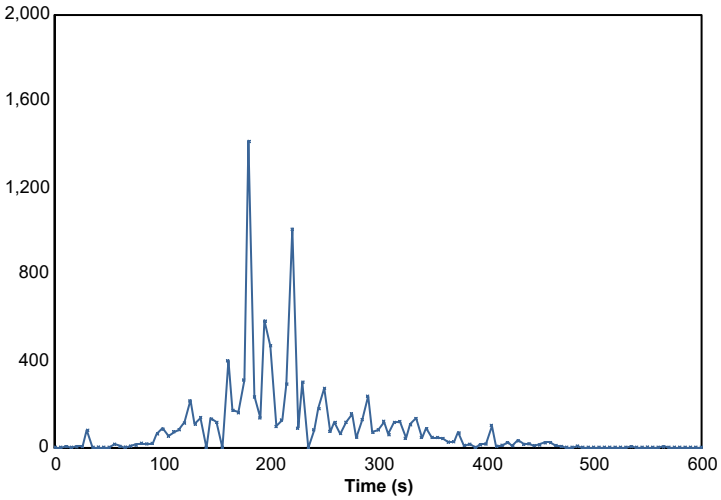
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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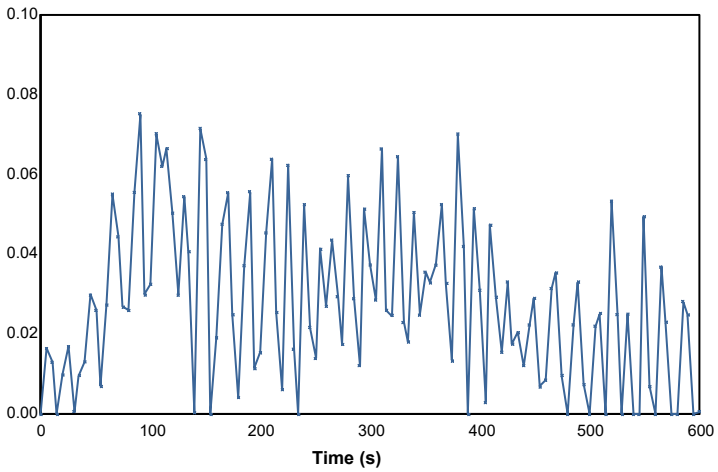
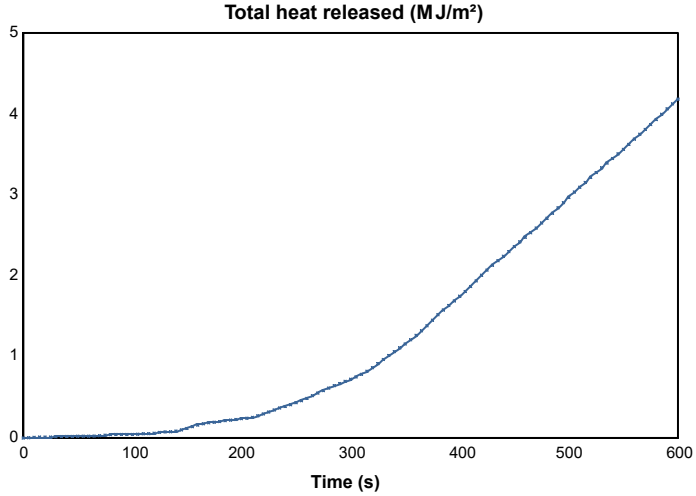
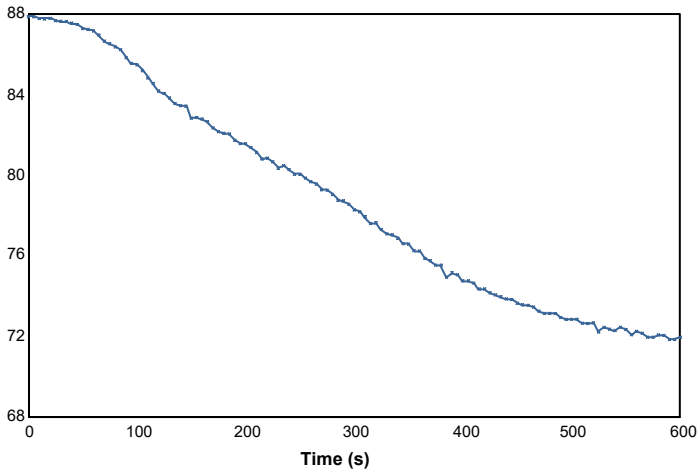
Mass loss rate (g/s)



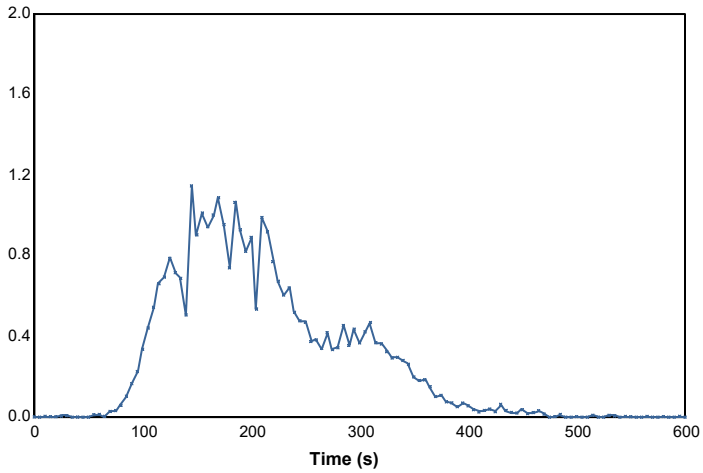
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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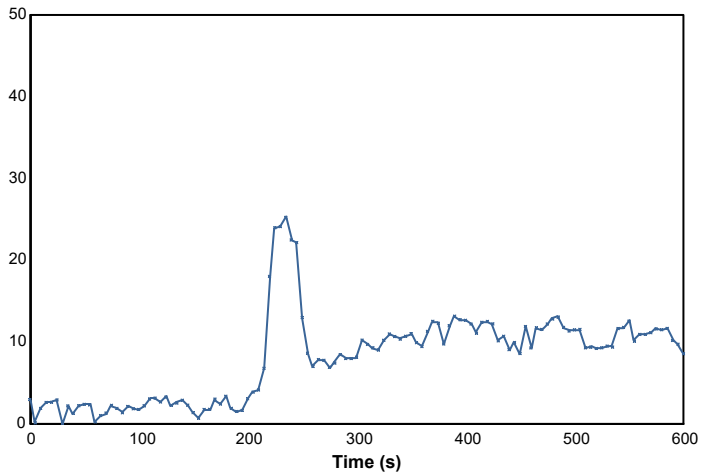
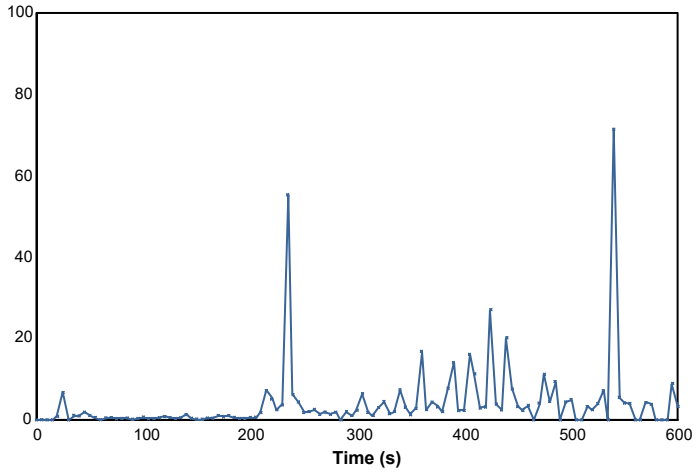
Specimen : 3

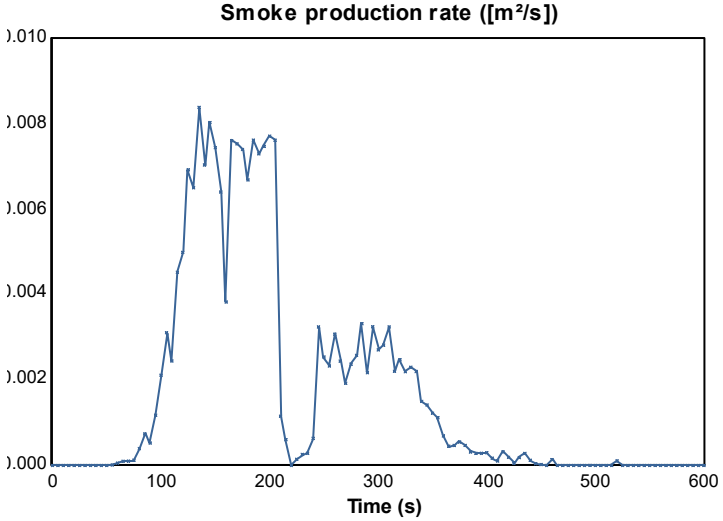
Heat release rate (kW/m²)



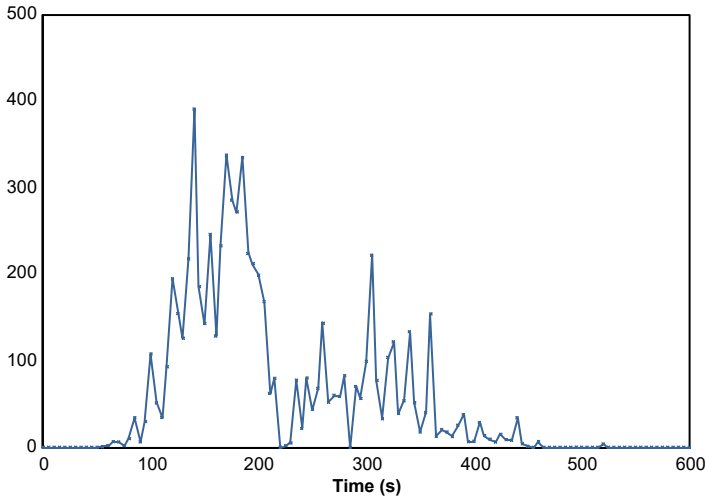
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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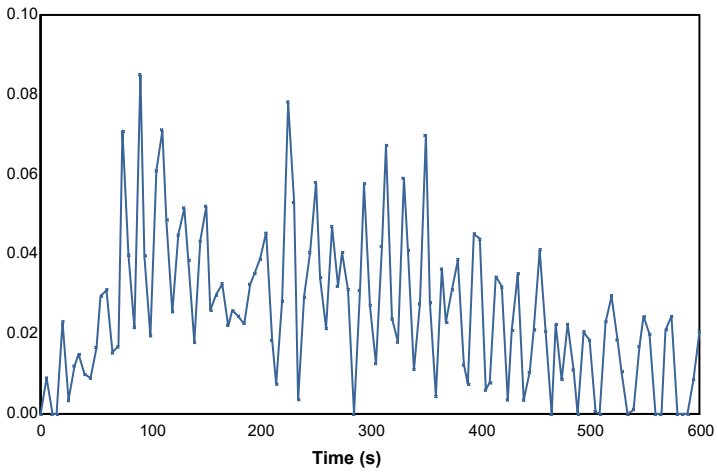
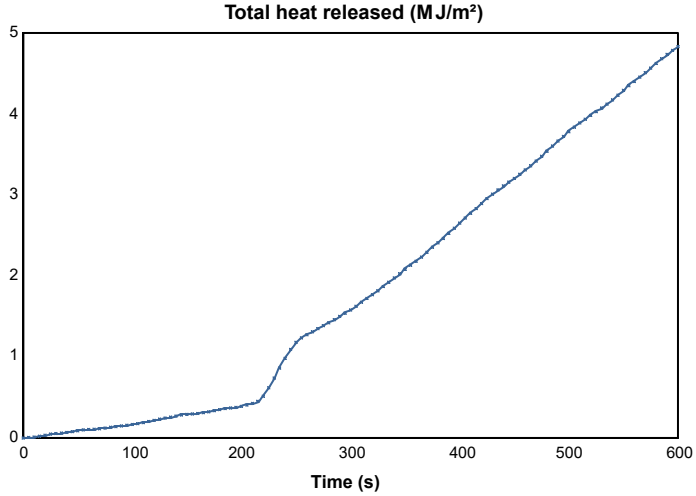
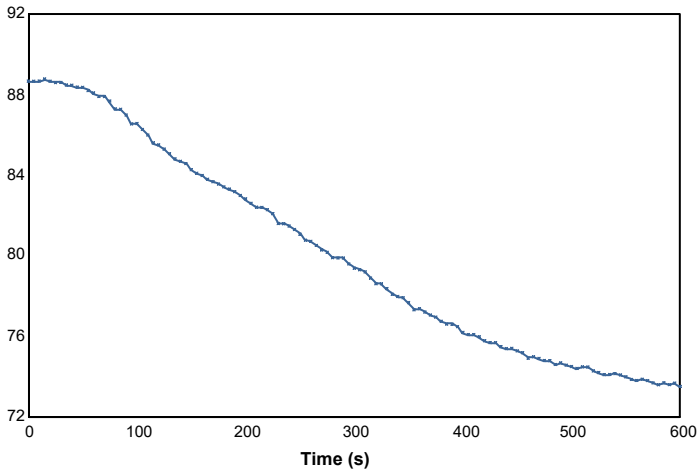
Mass loss rate (g/s)



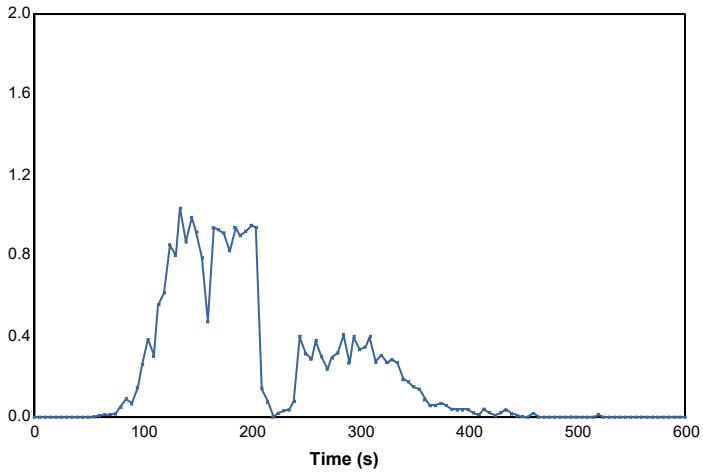
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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