

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 : 21-001332
Issue Date : 13/04/2021
Print Date : 20/04/2021
Order Number : 17395

Sample Description Clients Ref : "3268 Orajet"
Flexible self adhesive film
Colour : White
End Use : Wall covering
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : Approx 220g/m²
Nominal Thickness : 150 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 13-04-2021
Face Tested FACE

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	19.2	fti	fti	fti	fti	fti	n/a	kW/m ²
Average Specific extinction area	61.1	148.2	151.0	152.9	150.3	163.3	137.8	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	59	fti	fti	fti	fti	fti	n/a	sec
Test duration	240	600	600	600	600	600	540	sec
Peak heat release after ignition	91.2	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Average heat at 60 s	32.6	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Average heat at 180 s	19.2	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²

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Fiona McDonald

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Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.5	n/a	n/a	n/a	n/a	n/a	n/a	n/a	MJ/m ²
Ave. effective heat of combustion	3.6	n/a	n/a	n/a	n/a	n/a	n/a	n/a	MJ/kg
Initial thickness	10.1	10.1	10.1	10.1	10.1	10.1	10.1	10.1	mm
Initial mass	59.8	60.6	60.4	60.7	60.2	60.2	60.3	60.3	g
Mass at sustained flaming		n/a	n/a	n/a	n/a	n/a	n/a	n/a	
Mass remaining	51.9	n/a	n/a	n/a	n/a	n/a	n/a	n/a	g
Mass percentage pyrolysed	13.2	n/a	n/a	n/a	n/a	n/a	n/a	n/a	%
Mass loss	1.0	n/a	n/a	n/a	n/a	n/a	n/a	n/a	kg/m ²
Average rate of mass loss	5.3	3.1	3.1	3.1	3.1	3.1	3.0	3.5	g/m ² .s

Additional Observations NONE

Difficulties Encountered during Testing NONE

fti = failed to ignite

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

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

Specimens were self adhered to 10mm thick plasterboard

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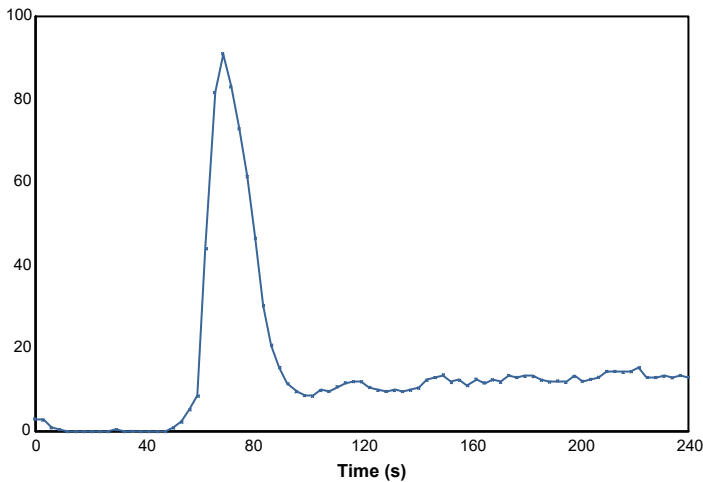
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Client : Orafol Australia
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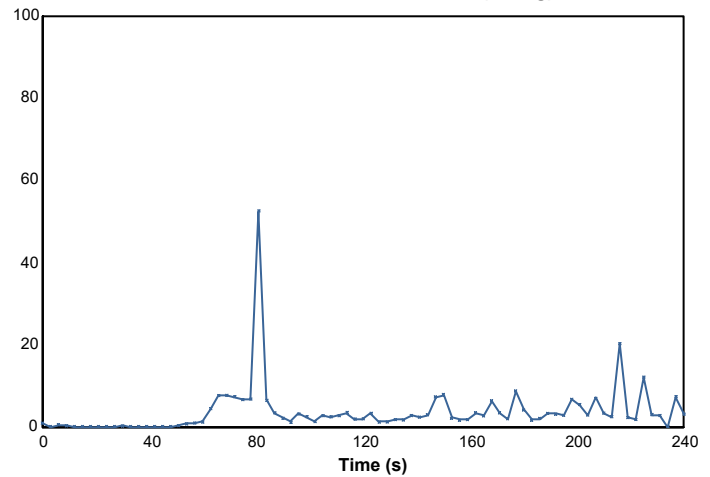
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Specimen : 1

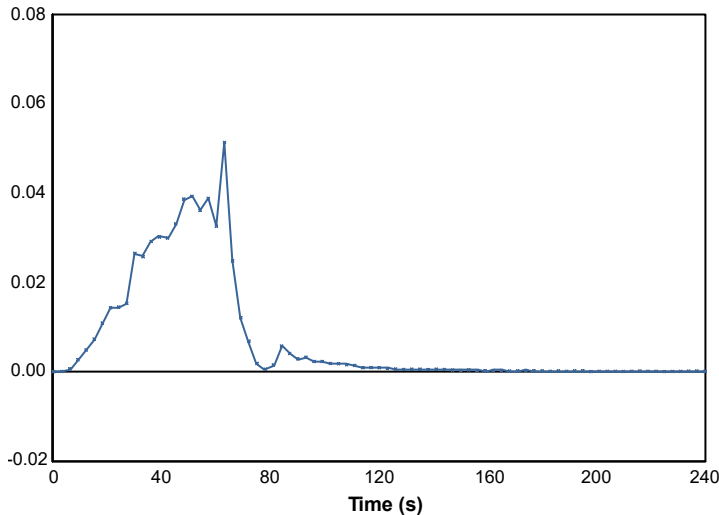
Heat release rate (kW/m²)



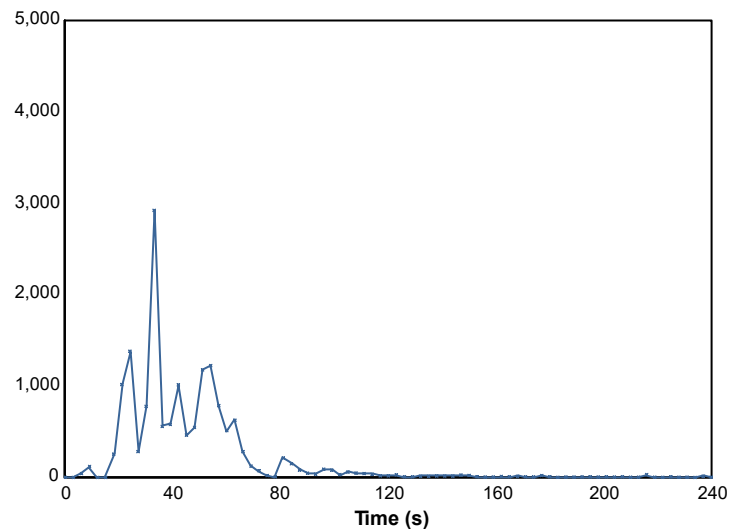
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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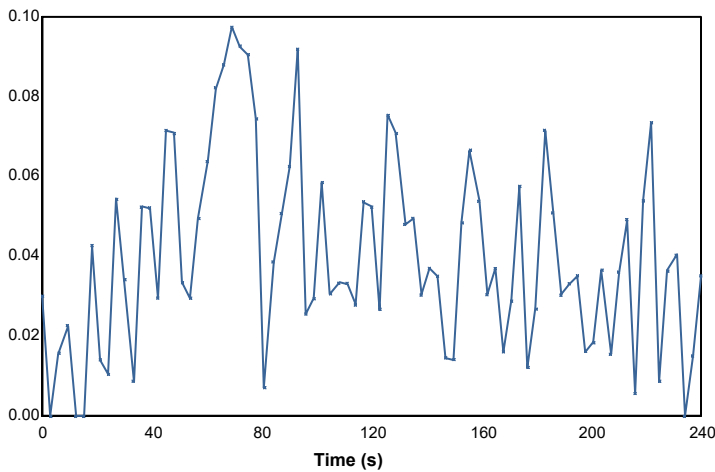
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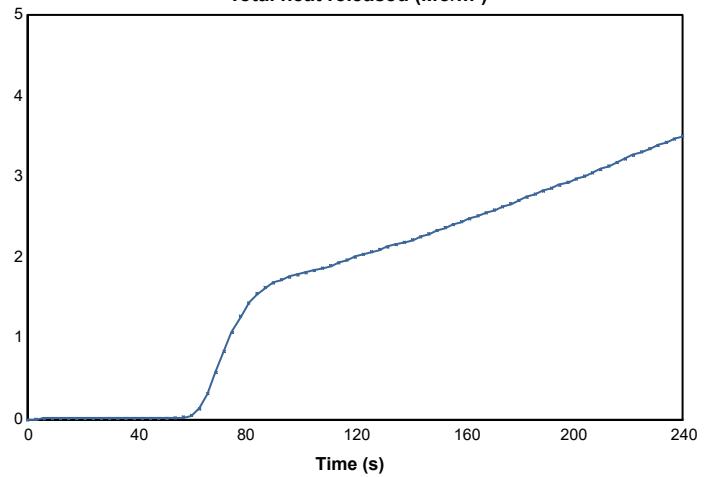
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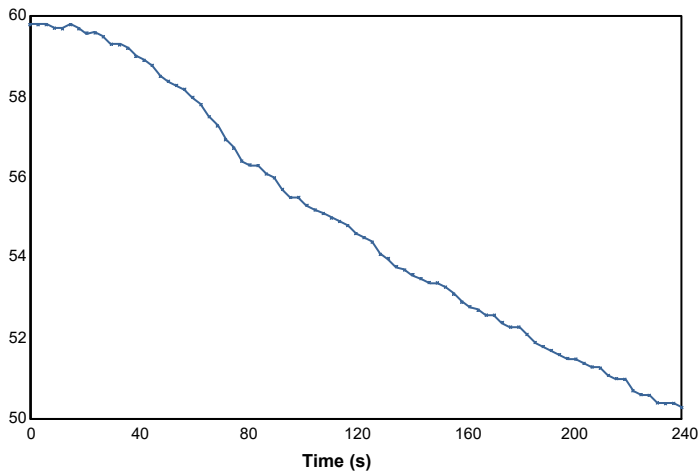
Mass loss rate (g/s)



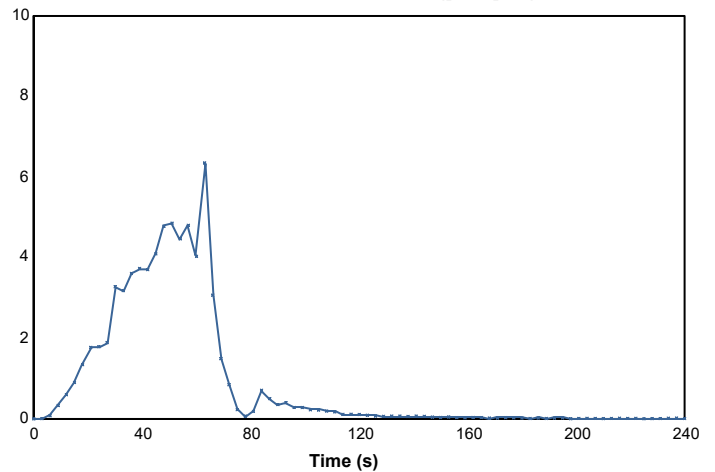
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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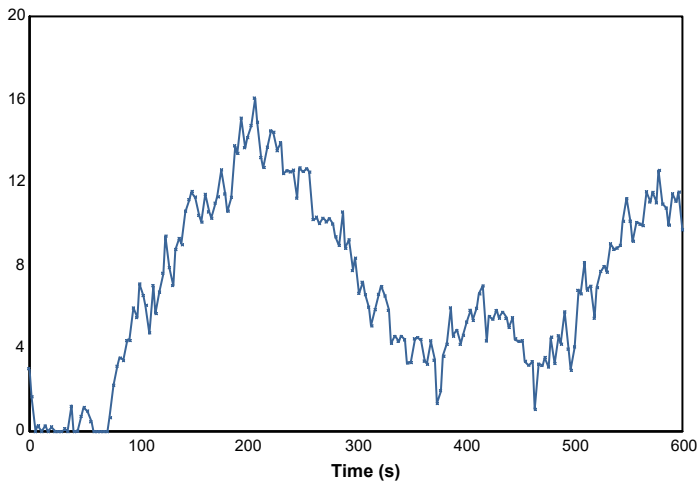
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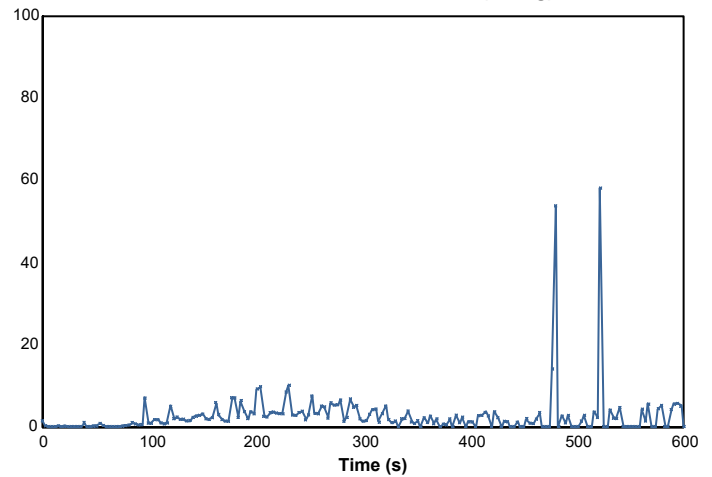
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Specimen : 2

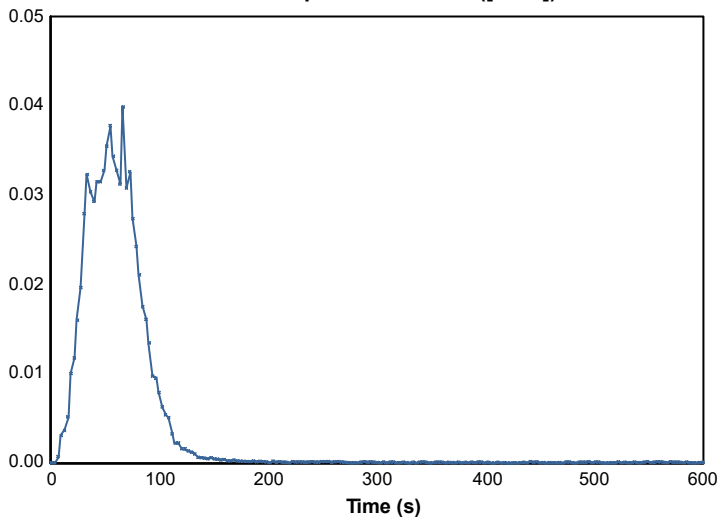
Heat release rate (kW/m²)



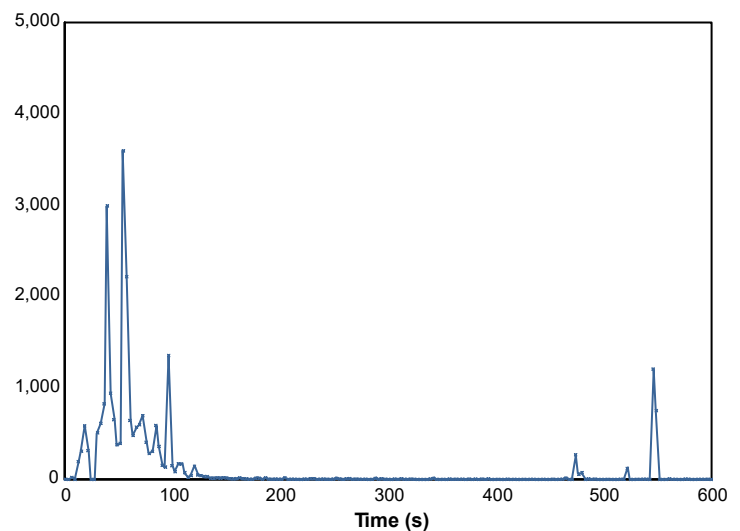
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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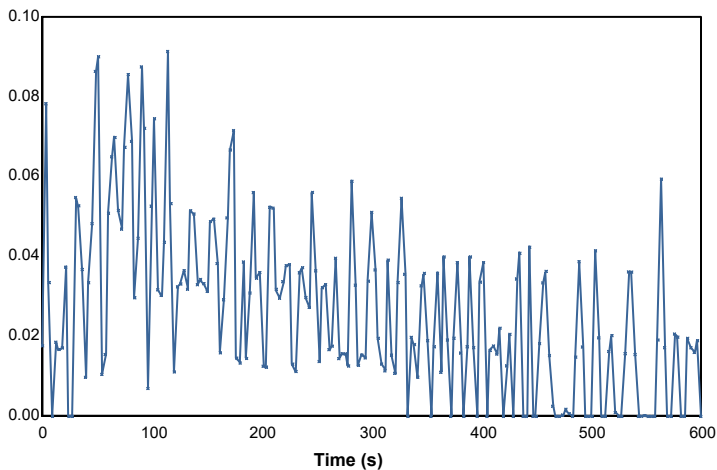
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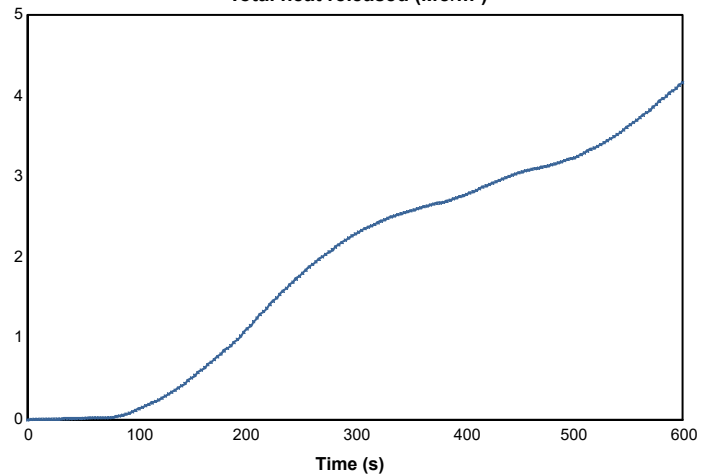
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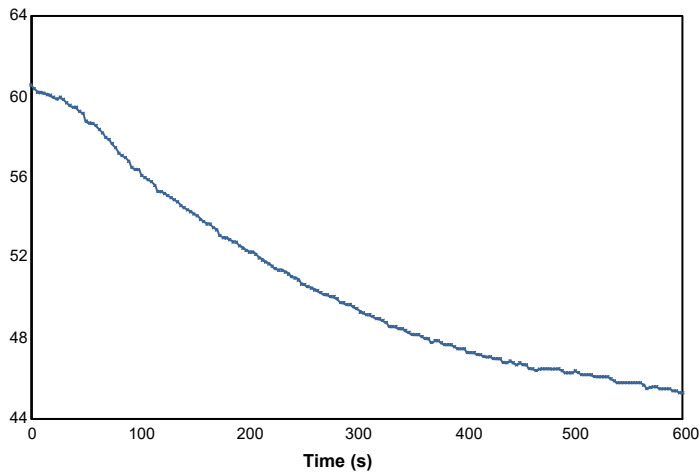
Mass loss rate (g/s)



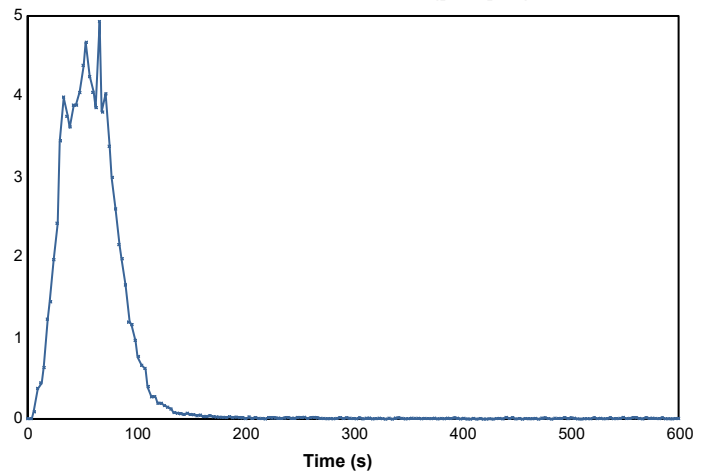
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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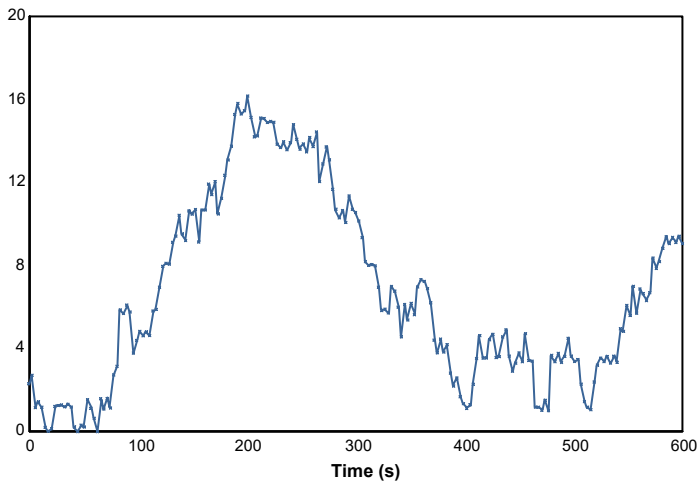
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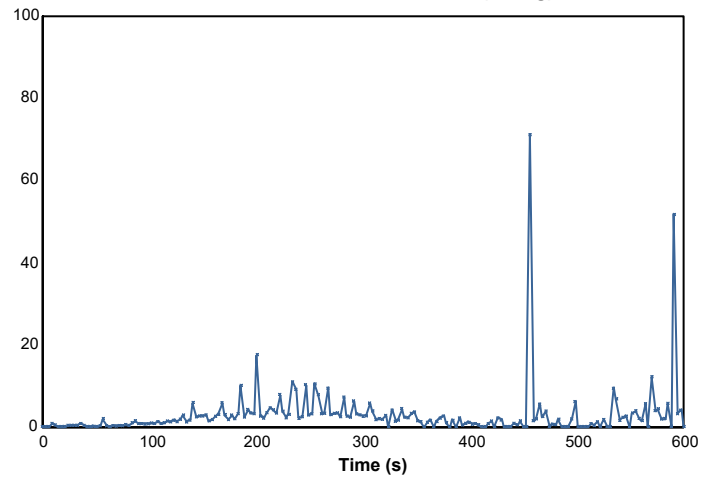
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Specimen : 3

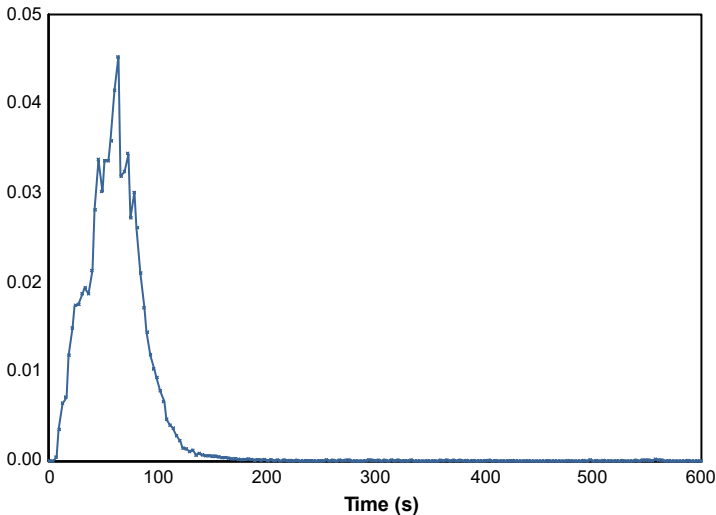
Heat release rate (kW/m²)



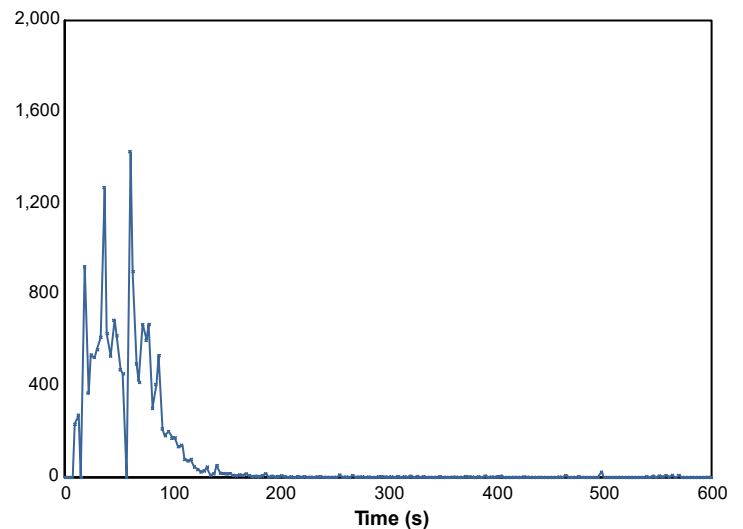
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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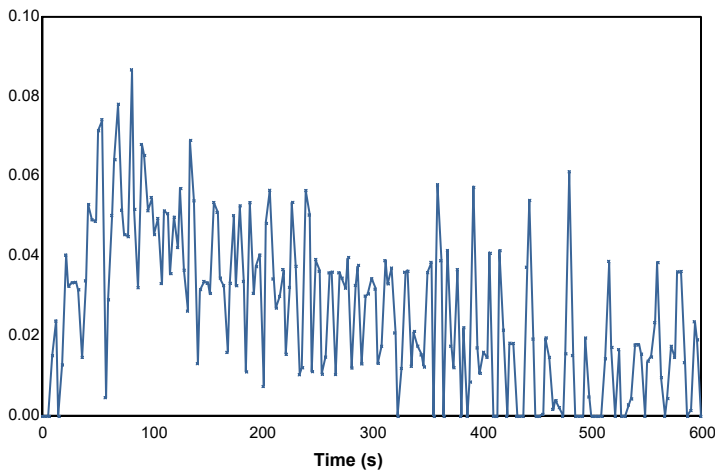
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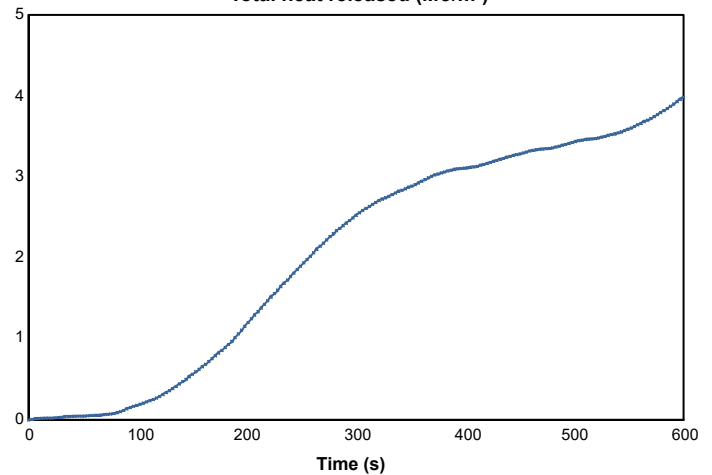
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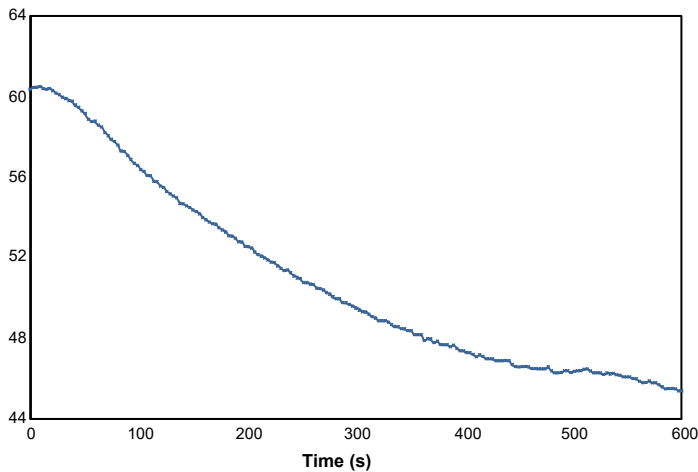
Mass loss rate (g/s)



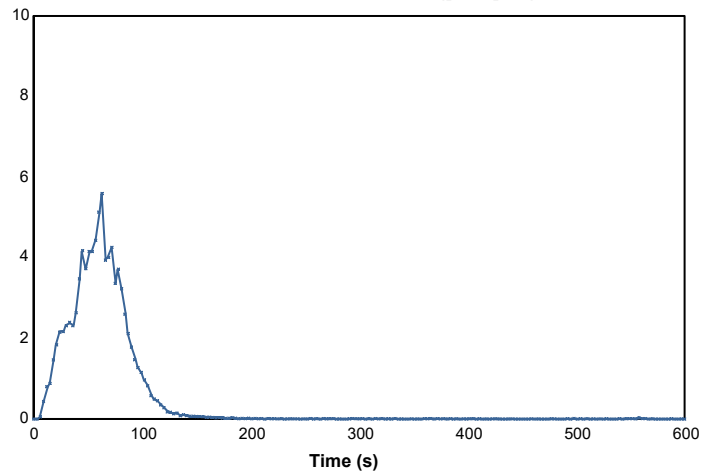
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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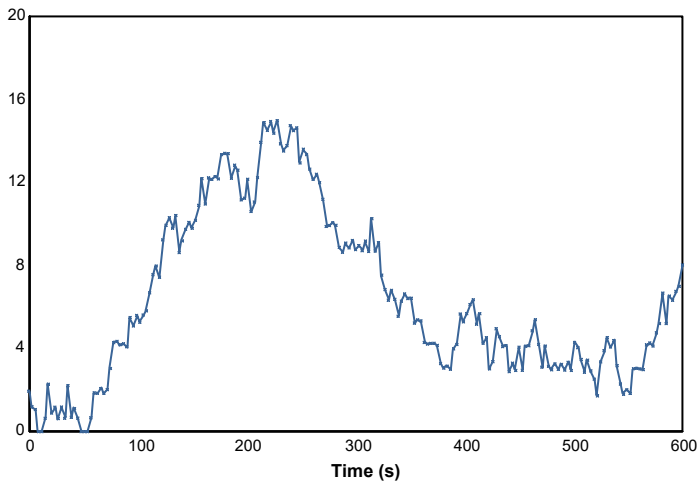
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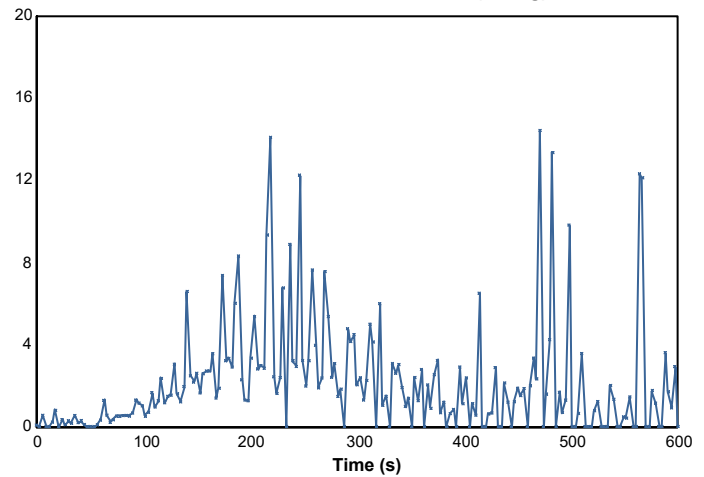
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Specimen : 4

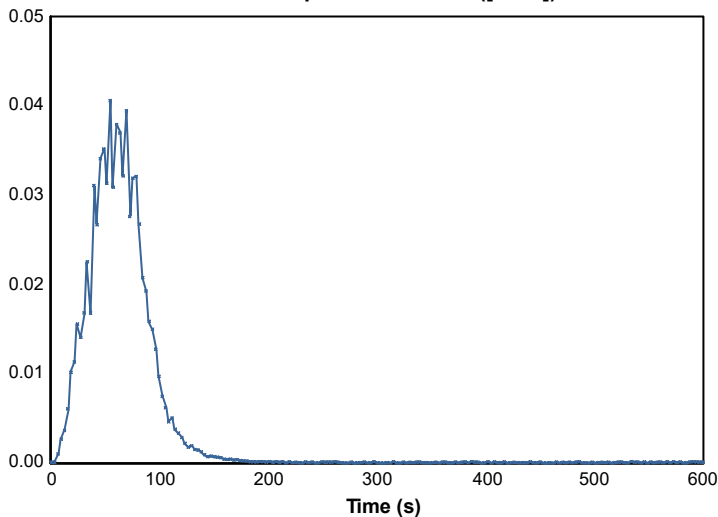
Heat release rate (kW/m²)



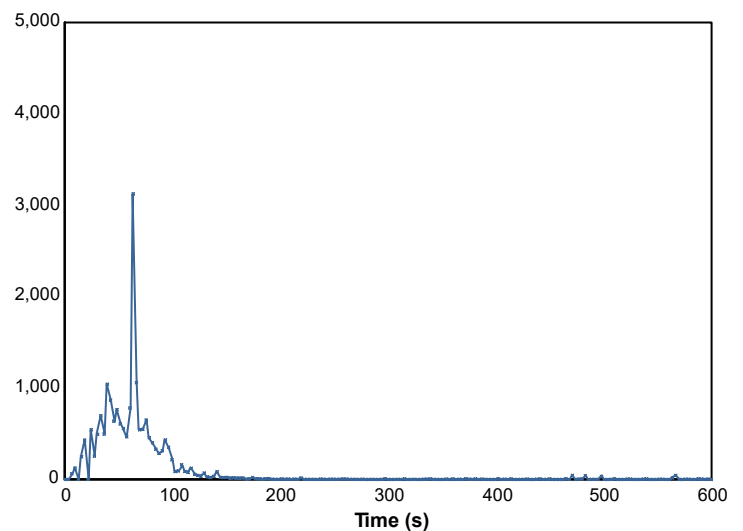
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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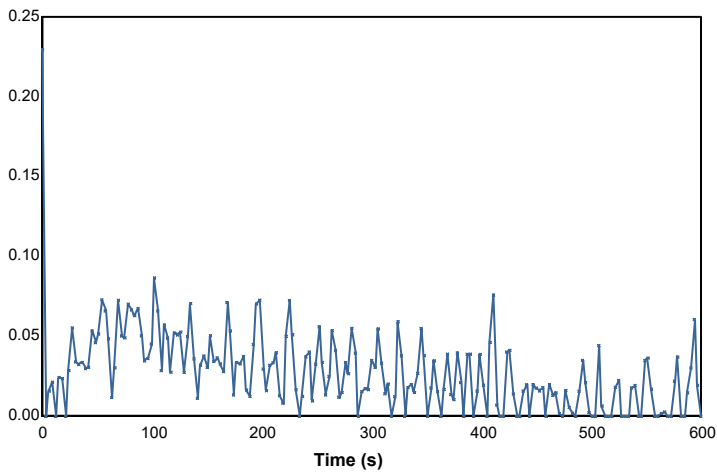
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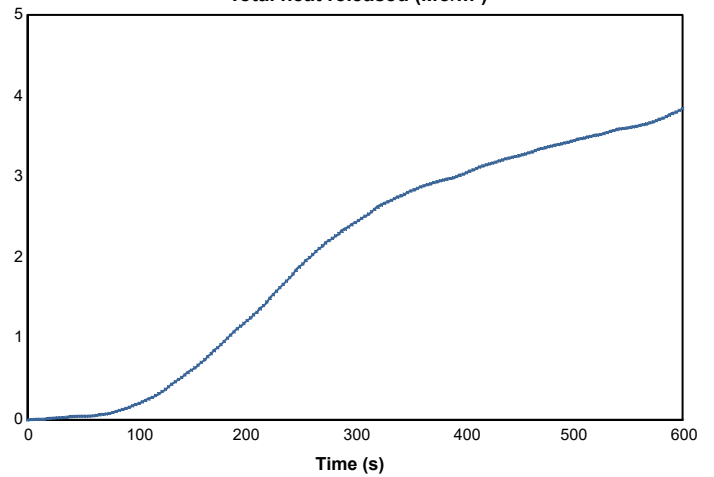
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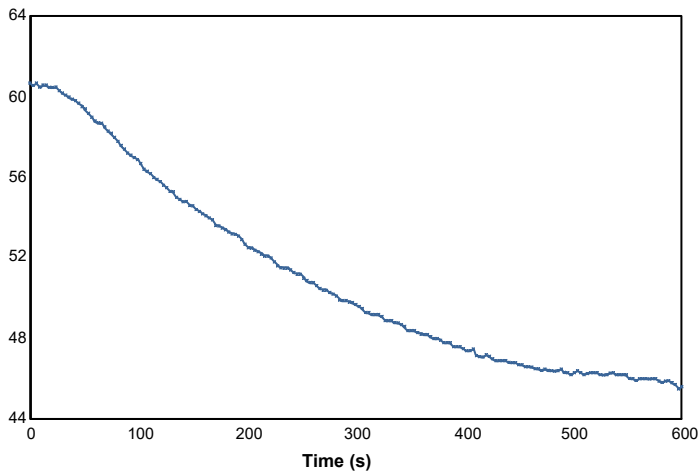
Mass loss rate (g/s)



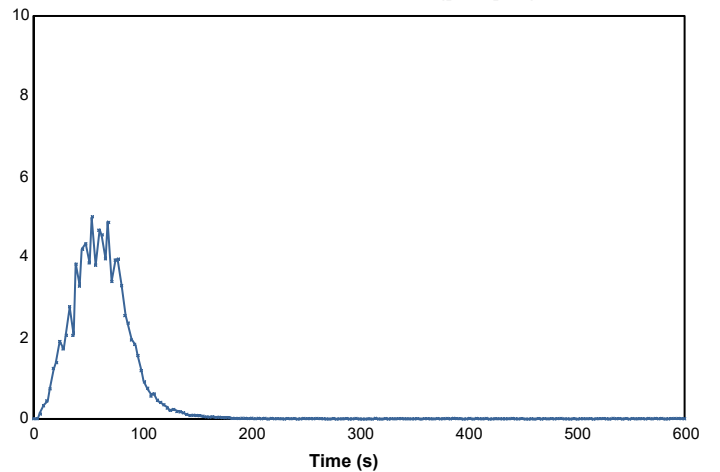
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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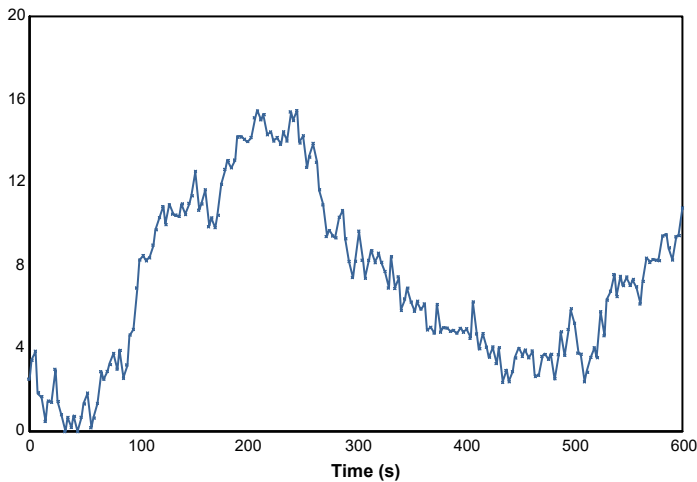
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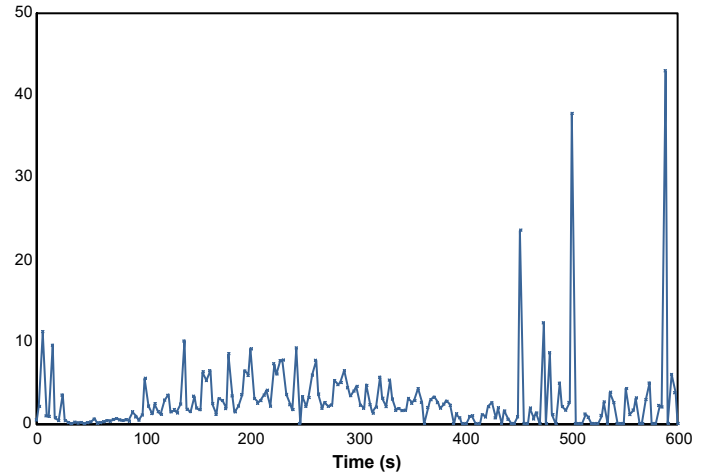
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Specimen : 5

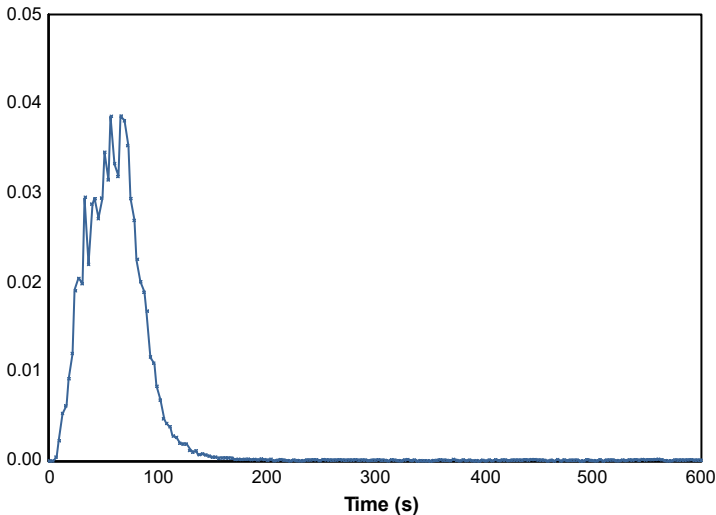
Heat release rate (kW/m²)



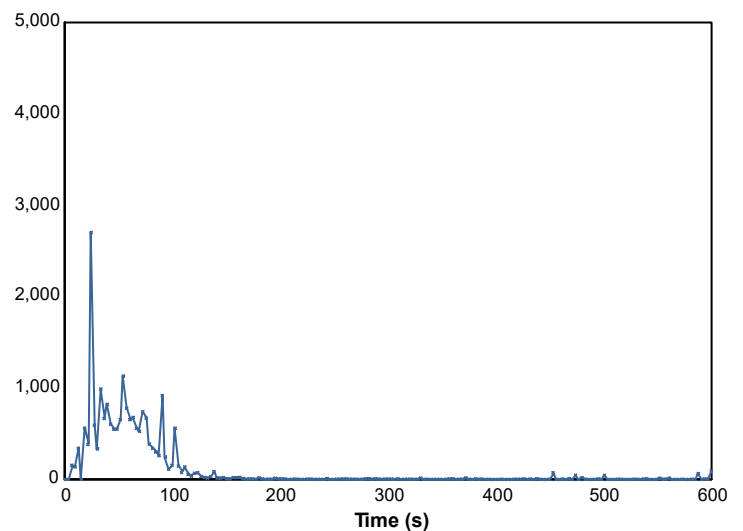
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Fiona McDonald

APPROVED SIGNATORY



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

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

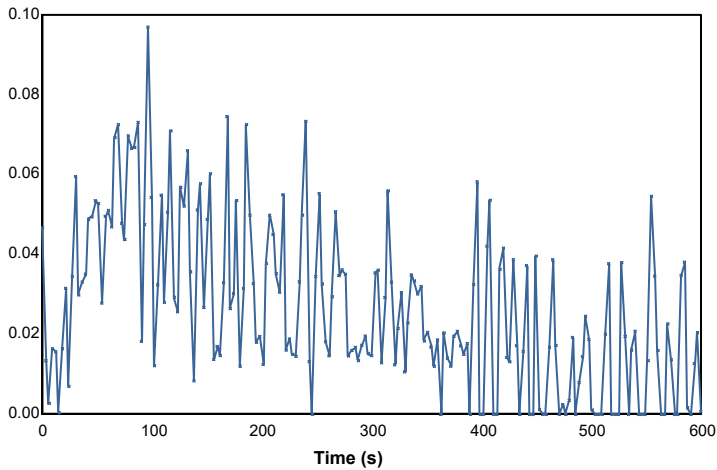
Phone (03) 9371 2400

TEST REPORT

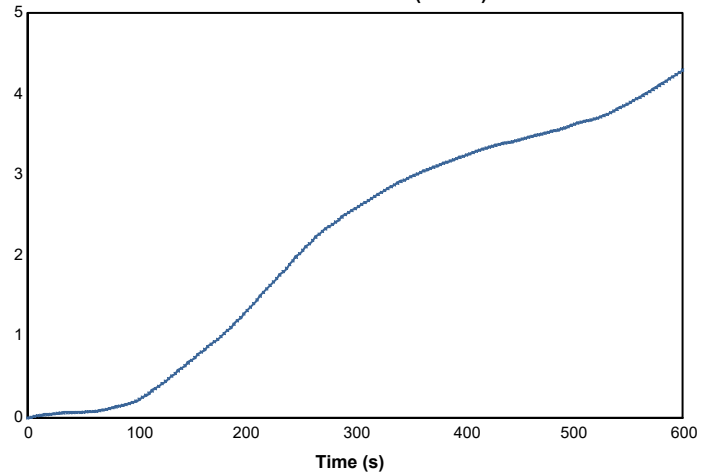
Client : Orafol Australia
8 Blanck Street
Ormeau QLD 4208

Test Number : 21-001332
Issue Date : 13/04/2021
Print Date : 20/04/2021
Order Number : 17395

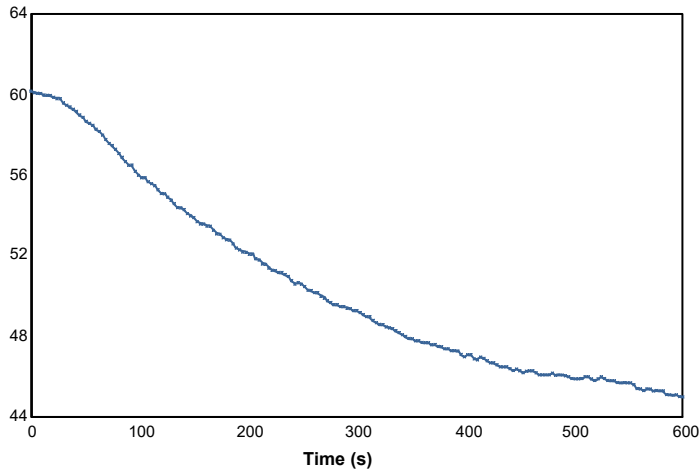
Mass loss rate (g/s)



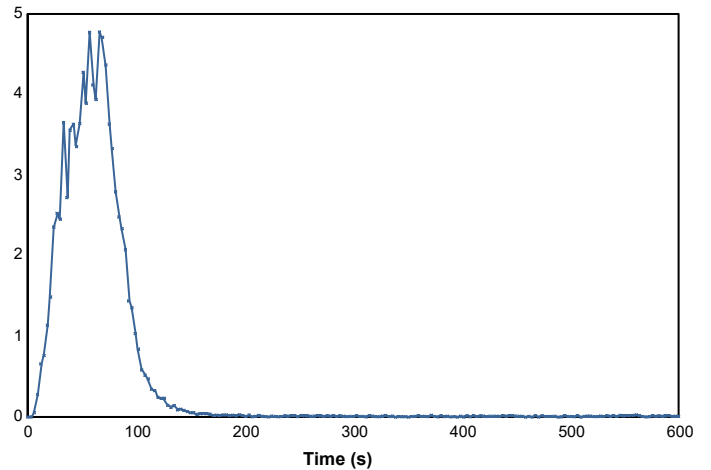
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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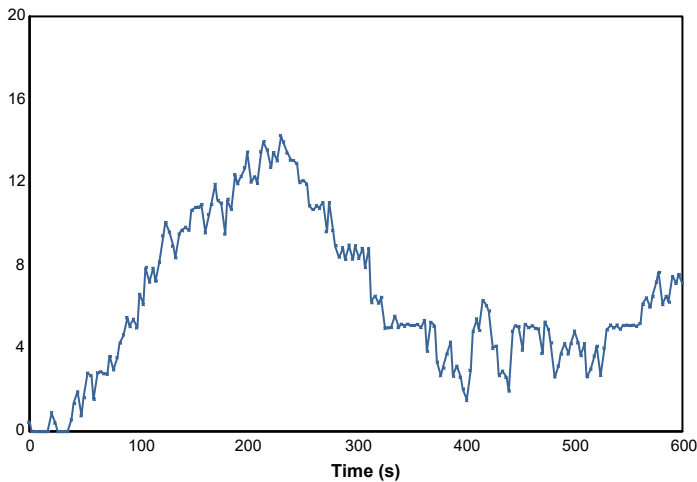
TEST REPORT

Client : Orafol Australia
8 Blanck Street
Ormeau QLD 4208

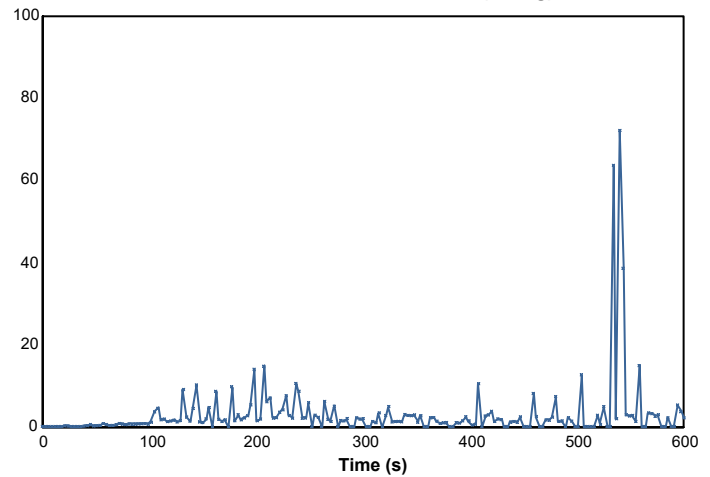
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Issue Date : 13/04/2021
Print Date : 20/04/2021
Order Number : 17395

Specimen : 6

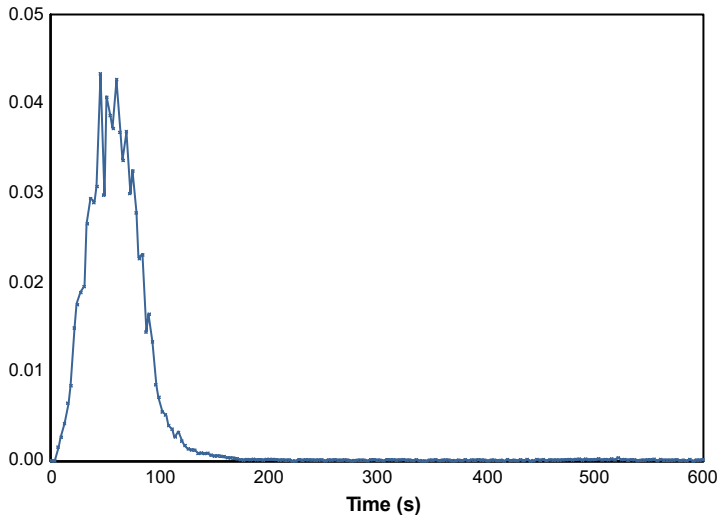
Heat release rate (kW/m²)



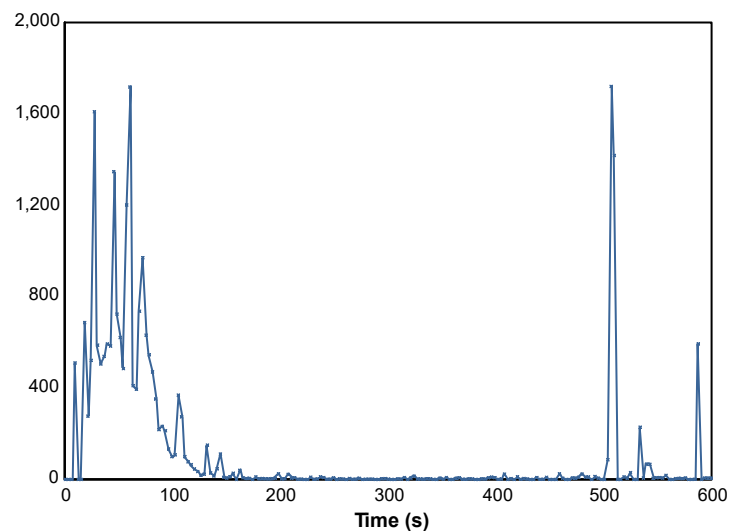
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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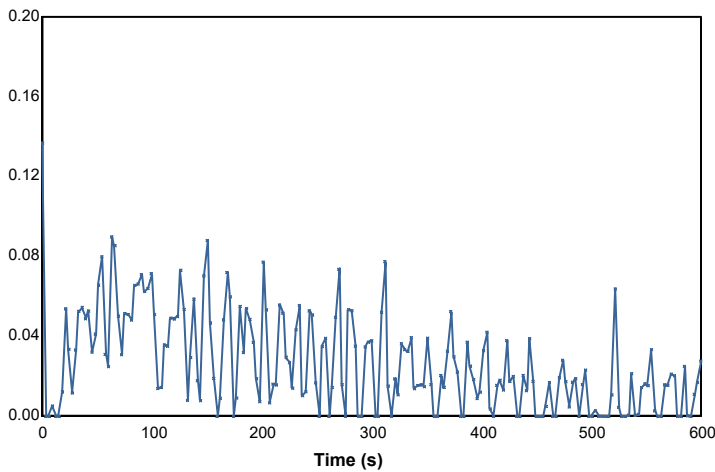
Phone (03) 9371 2400

TEST REPORT

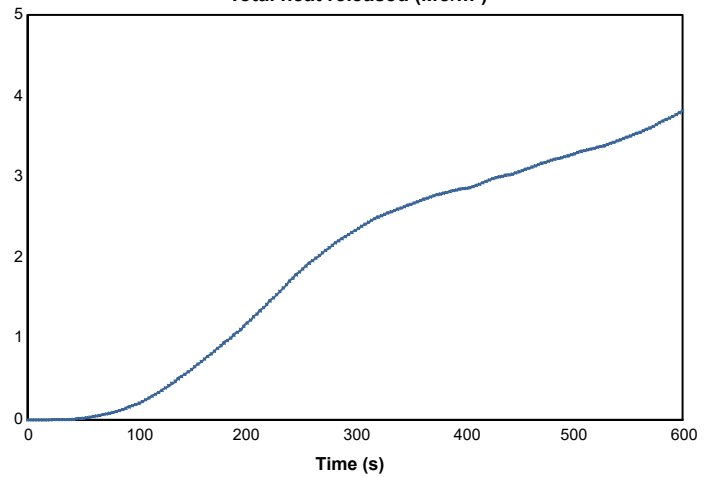
Client : Orafol Australia
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Test Number : 21-001332
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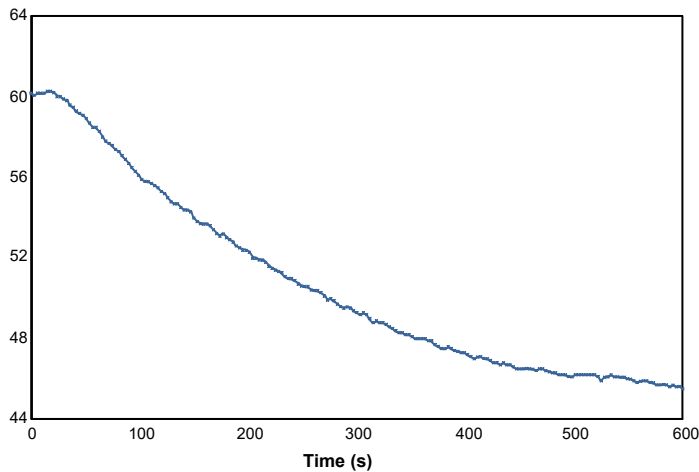
Mass loss rate (g/s)



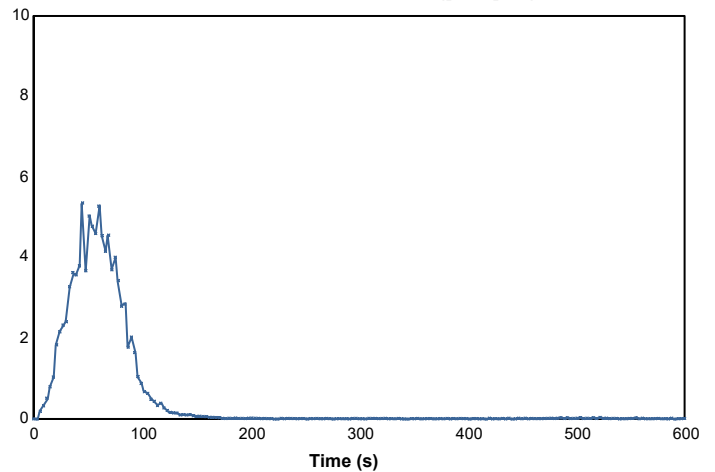
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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