

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 Fax (03) 9371 2499

TEST REPORT

Client : Gerflor Australasia Pty Ltd
17 Cato Street
Hawthorn East VIC 3123

Test Number : 19-006488
Issue Date : 18/12/2019
Print Date : 19/12/2019

Sample Description Clients Ref : "Mural Ultra"
Vinyl sheet
End Use : Commercial Wall Covering
Nominal Composition : Heterogeneous PVC
Nominal Mass per Unit Area/Density : 2600g/m2
Nominal Thickness : 1.5mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 17/12/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen			
	1	2	3	Mean
Average Heat Release Rate	44.7	47.5	33.4	41.9 kW/m ²
Average Specific extinction area	141.0	133.8	127.7	134.2 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	29	47	42	39 sec
Test duration	915	801	845	854 sec
Peak heat release after ignition	124.2	117.1	111.5	117.6 kW/m ²
Average heat at 60 s	88.3	98.8	96.3	94.5 kW/m ²
Average heat at 180 s	77.4	74.3	76.4	76.0 kW/m ²
Average heat at 300 s	67.6	62.7	56.3	62.2 kW/m ²

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- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
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APPROVED SIGNATORY

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

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Total heat released	39.6	36.0	26.8	34.1	MJ/m ²
Average effective heat of combustion	11.7	11.5	8.2	10.5	MJ/kg
Initial thickness	8	8	8	8.0	mm
Initial mass	110.9	109.2	111.9	110.7	g
Mass at sustained flaming	110.7	108.5	111.2	110.1	g
Mass remaining	83.5	83.4	85.1	84.0	g
Mass percentage pyrolysed	24.7	23.6	23.9	24.1	%
Mass loss	3.4	3.2	3.3	3.3	kg/m ²
Average rate of mass loss	3.8	4.2	4.1	4.0	g/m ² .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

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.

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

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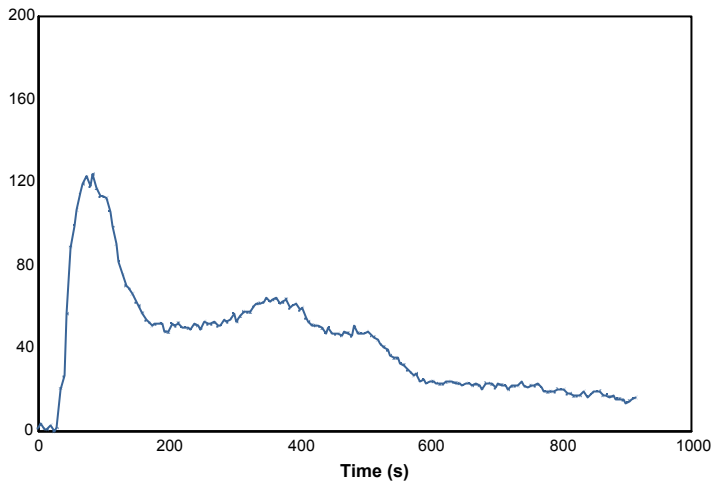
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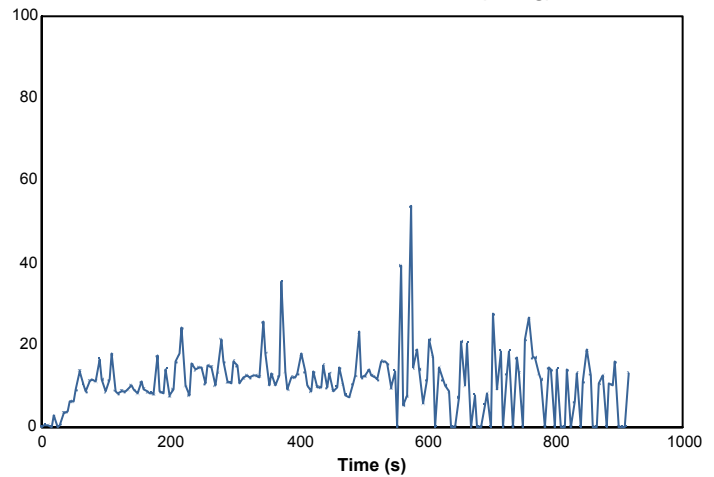
Test Number : 19-006488
Issue Date : 18/12/2019
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Specimen : 1

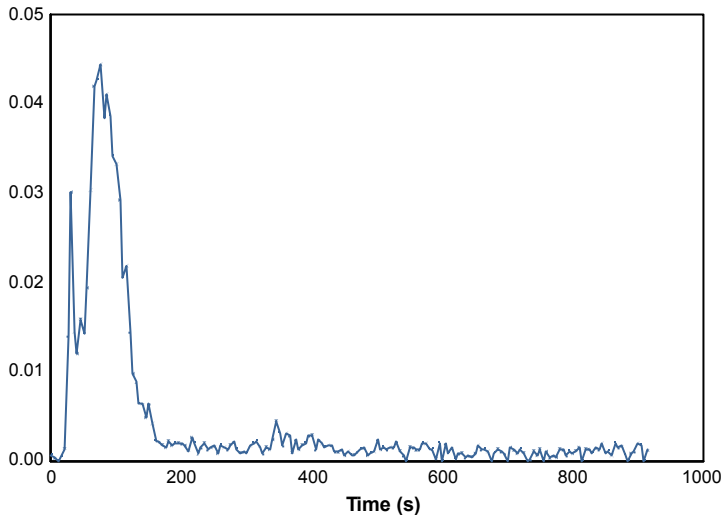
Heat release rate (kW/m²)



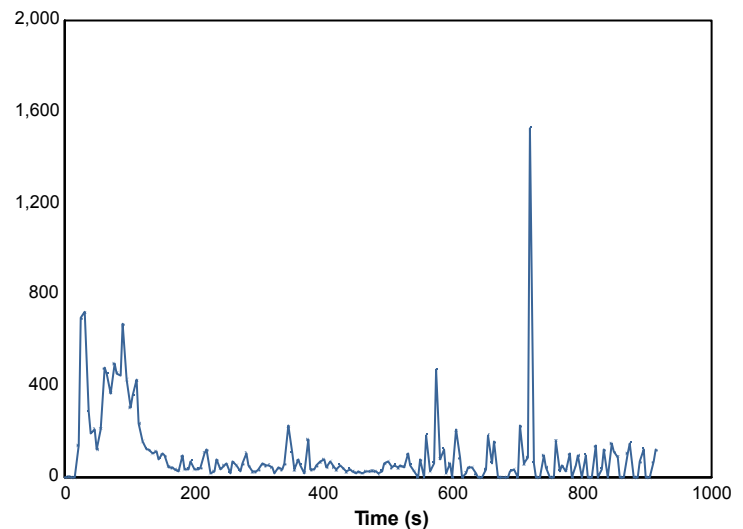
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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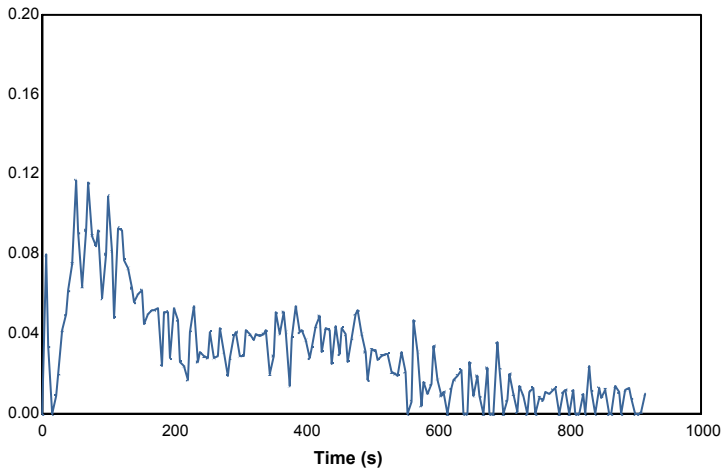
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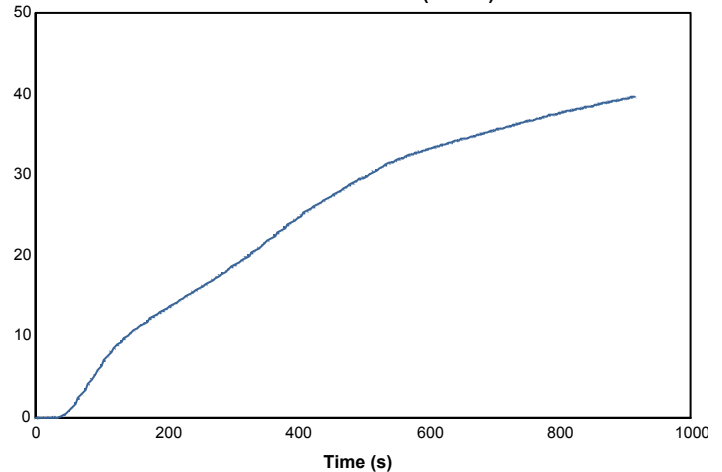
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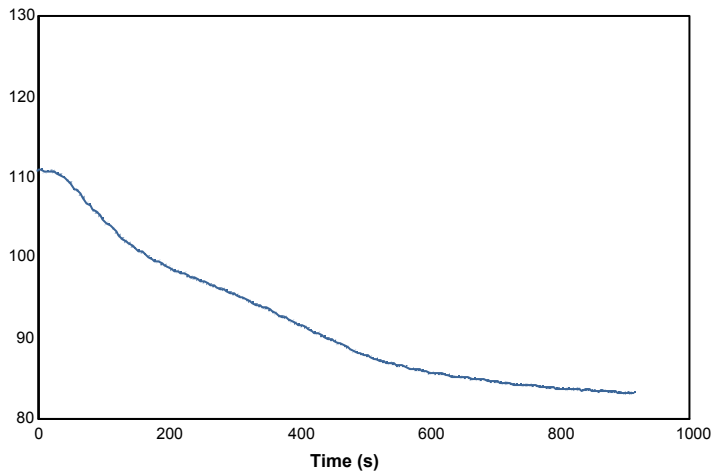
Mass loss rate (g/s)



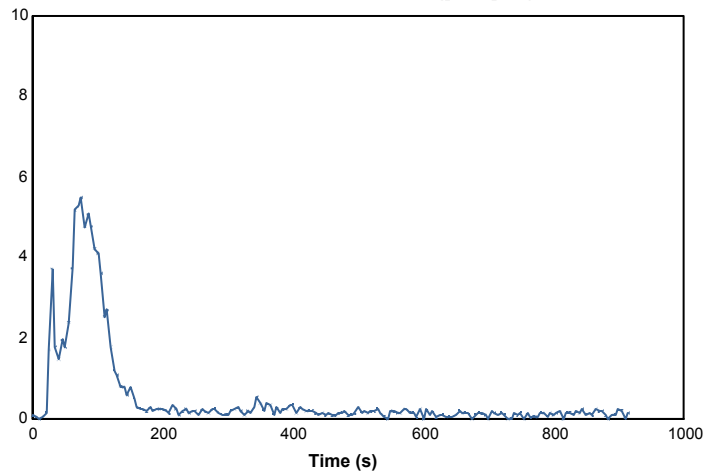
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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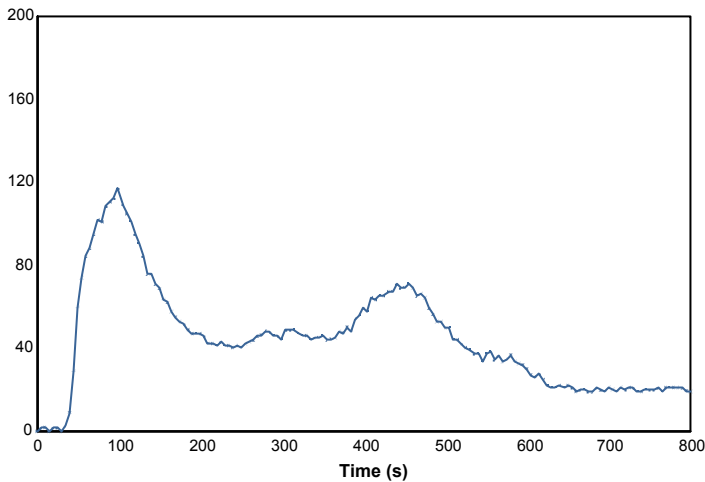
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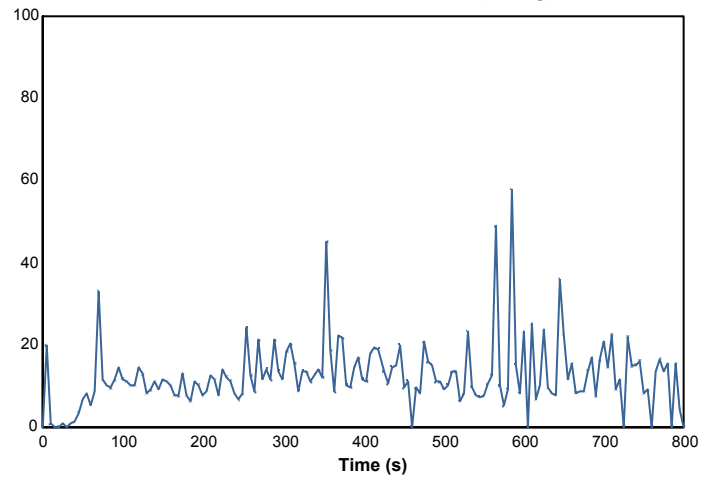
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Specimen : 2

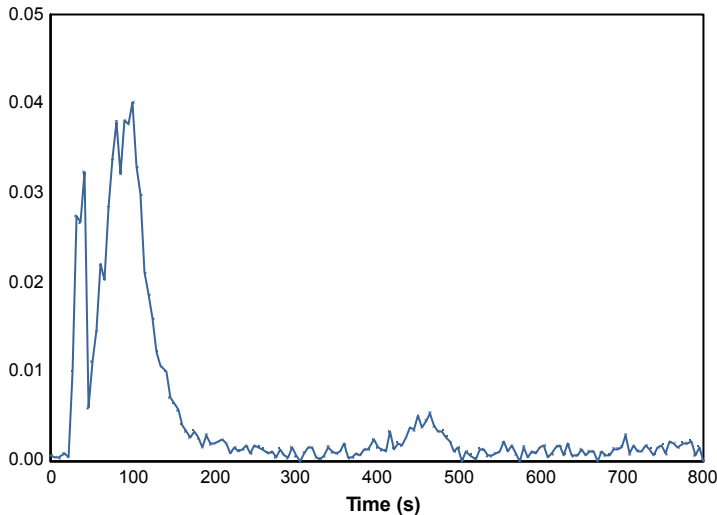
Heat release rate (kW/m²)



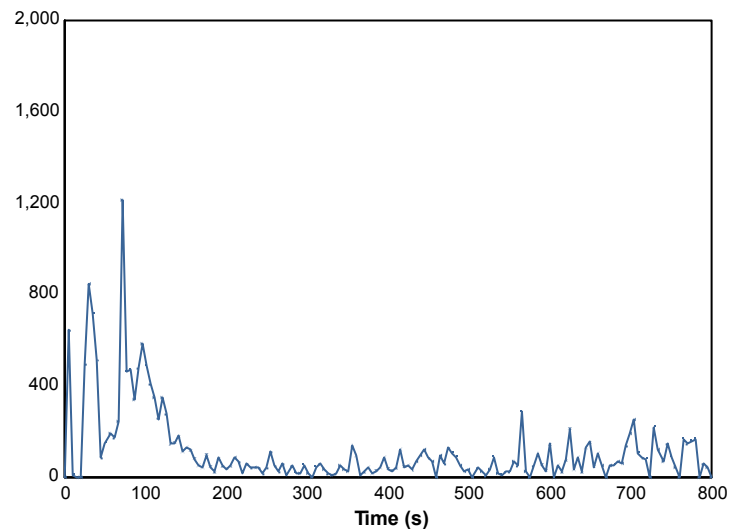
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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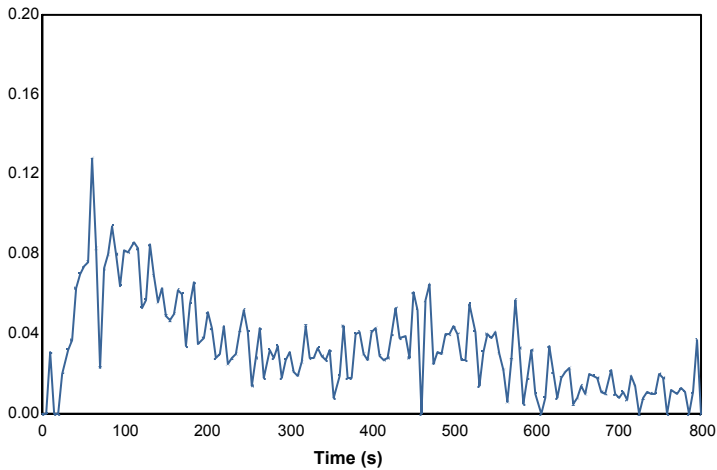
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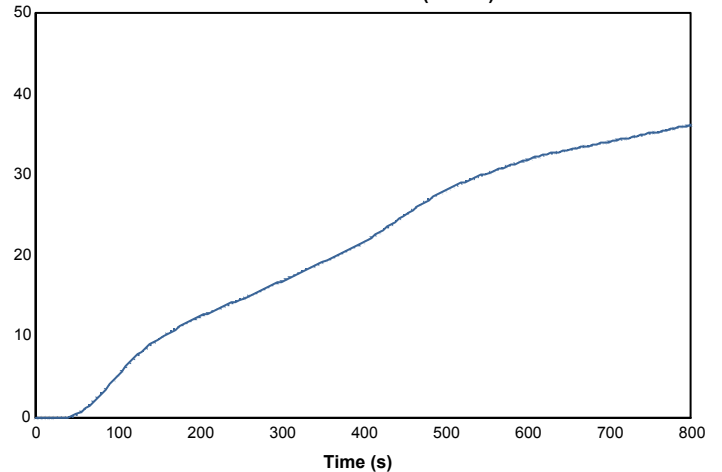
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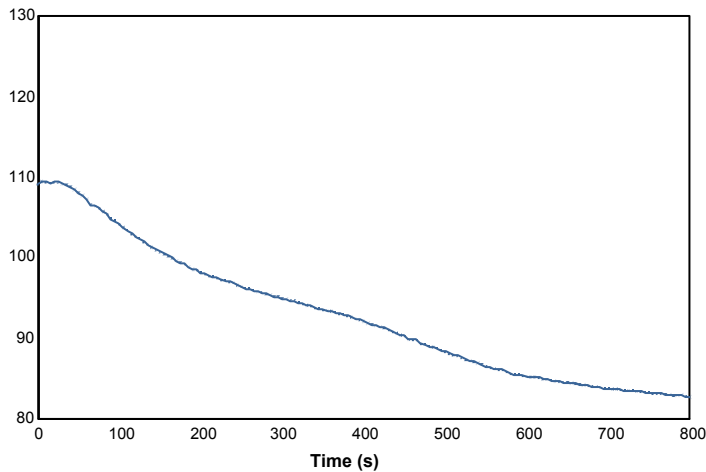
Mass loss rate (g/s)



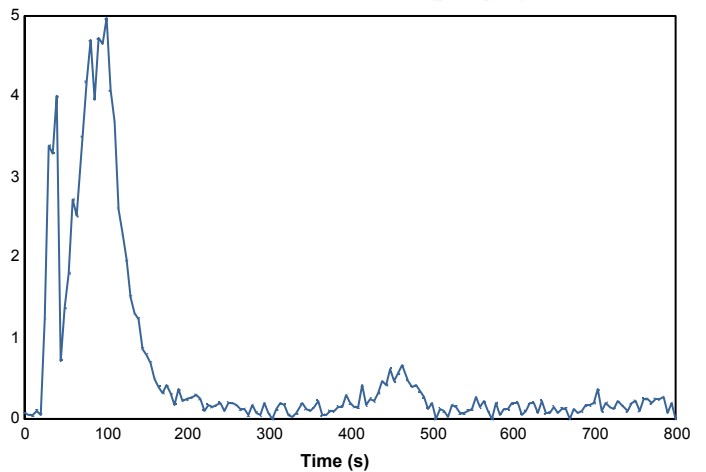
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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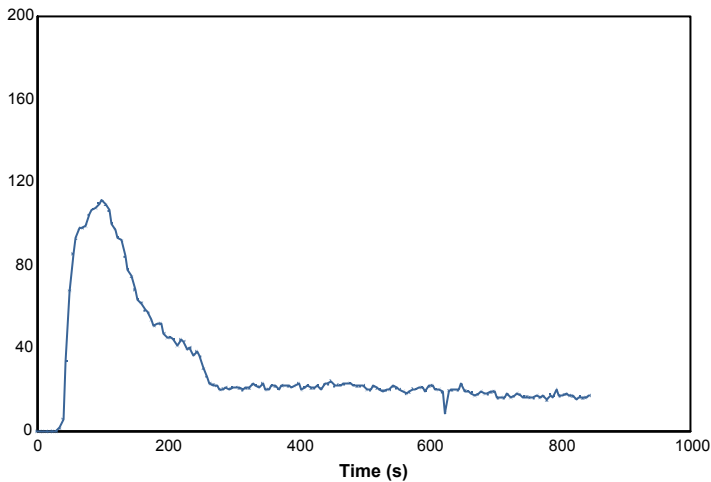
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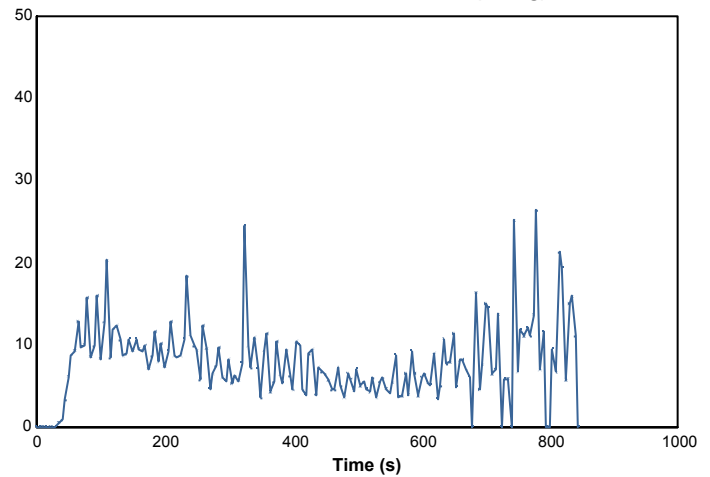
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Specimen : 3

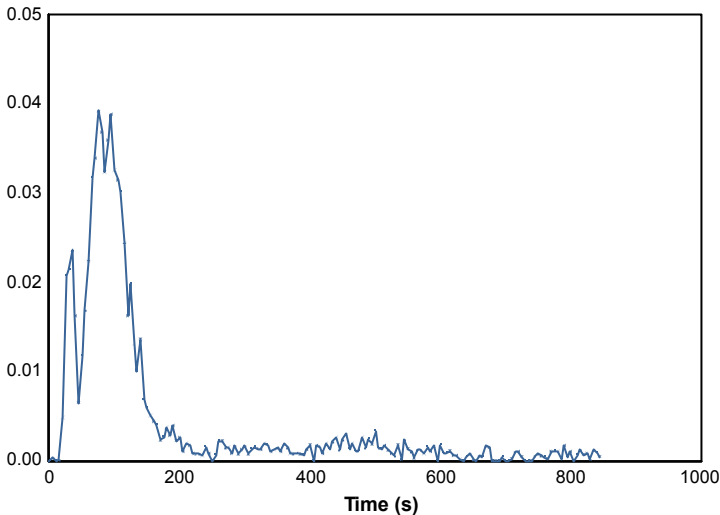
Heat release rate (kW/m²)



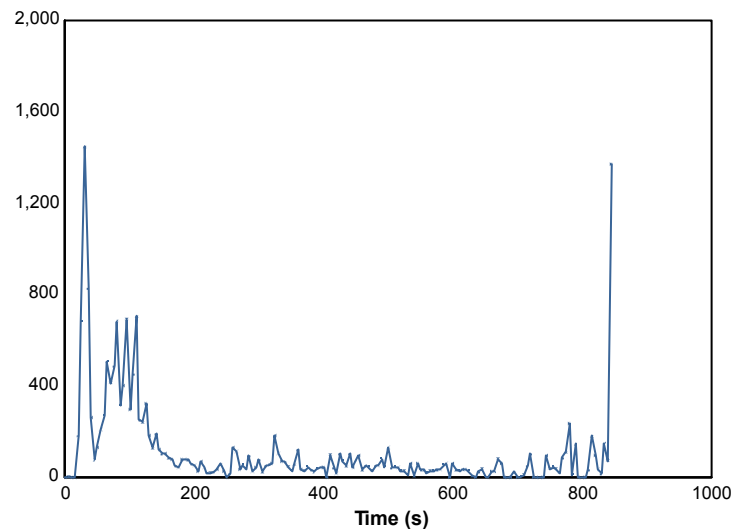
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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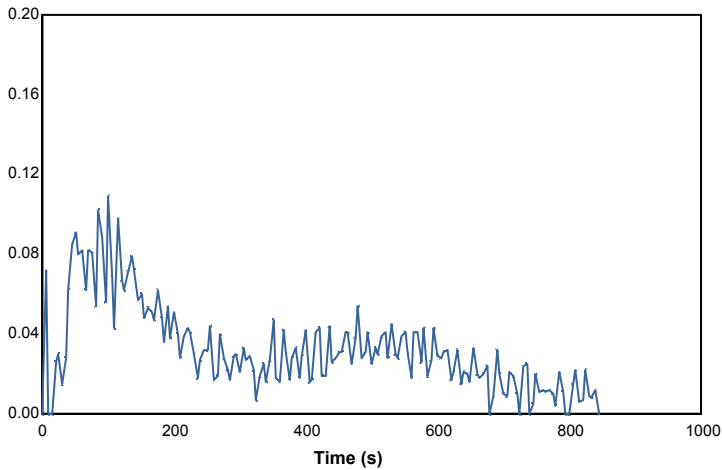
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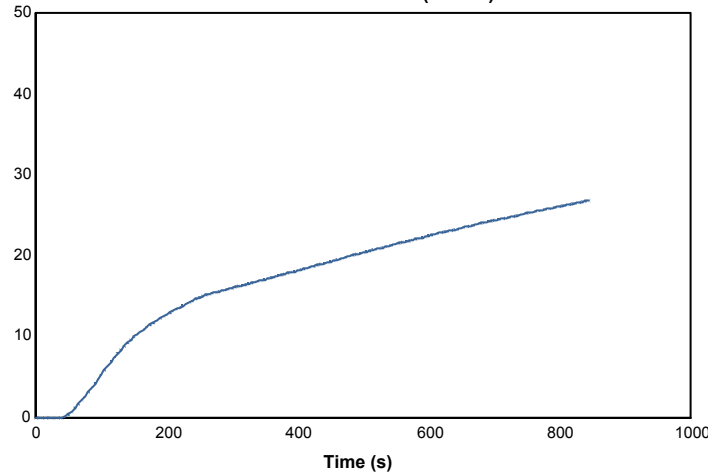
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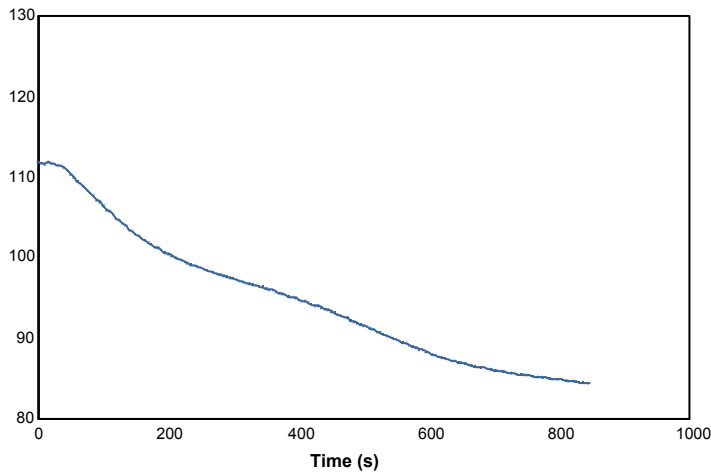
Mass loss rate (g/s)



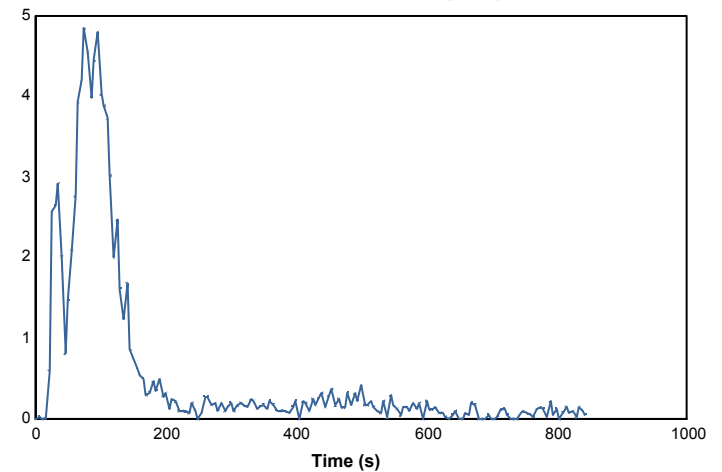
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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