

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

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter. As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

Test Sponsor : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 20-006001
Issue Date : 4/12/2020
Print Date : 4/12/2020

Sponsor Product Clients Ref : "20oz Wall Vinyl"
Vinyl with Osnaburg Backing
Colour : Ingenu Gainsboro/Bali Caramel
End Use : Wall Covering
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 456g/m2
Nominal Thickness : Approx: 1mm

Product Group Number Classification : 1

Average Specific Extinction Area : 80.8 m²/kg



Chris Campbell
Client Relations Manager

48073

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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 20-006001
Issue Date : 04/12/2020
Print Date : 4/12/2020
Order Number : 43661

Sample Description Clients Ref : "20oz Wall Vinyl"
Vinyl with Osnaburg Backing
Colour : Ingenu Gainsboro/Bali Caramel
End Use : Wall Covering
Nominal Composition : PVC
Nominal Mass per Unit Area/Density : 456g/m²
Nominal Thickness : Approx: 1mm

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

Date Tested 04/12/2020
Face Tested Ingenu gainsboro/Boli caramel

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	28.6	29.5	30.7	29.6	kW/m ²
Average Specific extinction area	82.3	70.2	89.9	80.8	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	20	30	24	25	sec
Test duration	278	308	273	286	sec
Peak heat release after ignition	88.5	98.4	86.1	91.0	kW/m ²
Average heat at 60 s	71.4	77.1	69.6	72.7	kW/m ²

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Average heat at 180 s	35.2	36.3	35.9	35.8	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	7.3	8.2	7.6	7.7	MJ/m ²
Average effective heat of combustion	5.0	5.5	5.0	5.2	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	64.0	64.6	64.6	64.4	g
Mass remaining	52.2	52.5	52.3	52.3	g
Mass percentage pyrolysed	18.5	18.7	19.0	18.7	%
Mass loss	1.5	1.5	1.5	1.5	kg/m ²
Average rate of mass loss	4.7	5.4	6.1	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.

Samples were adhered to a substrate of 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

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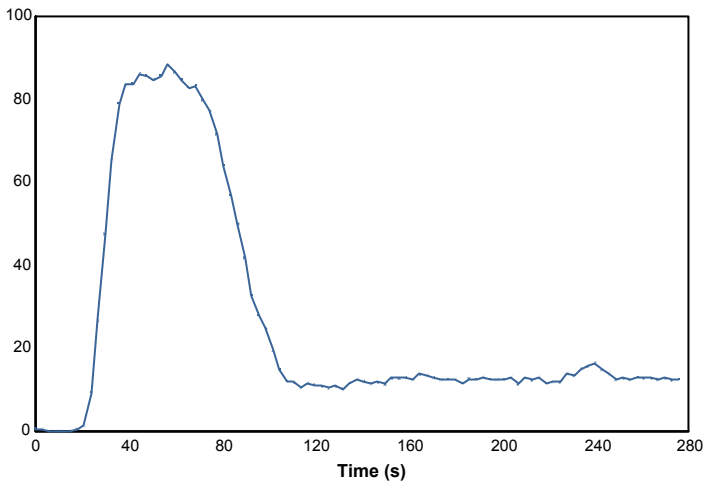
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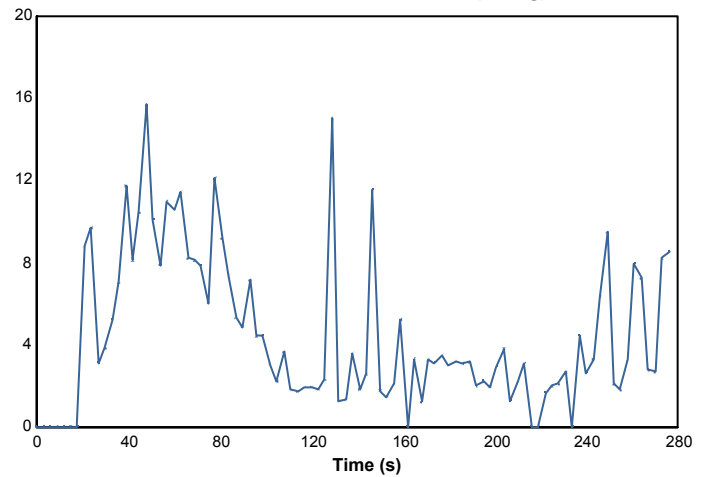
Test Number : 20-006001
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Specimen : 1

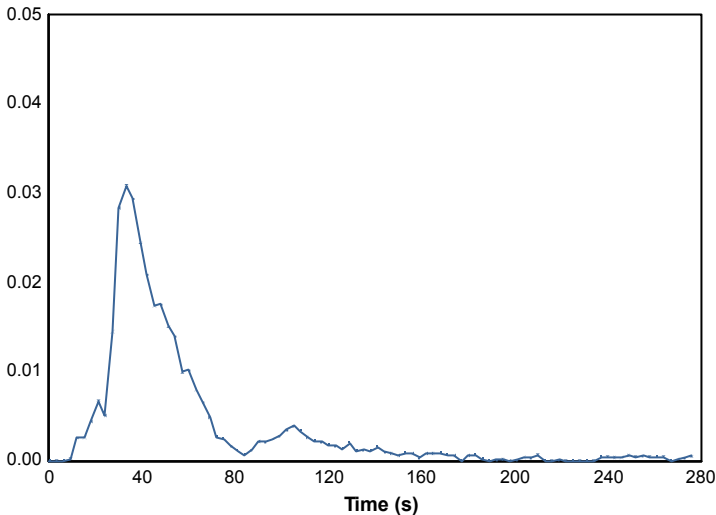
Heat release rate (kW/m²)



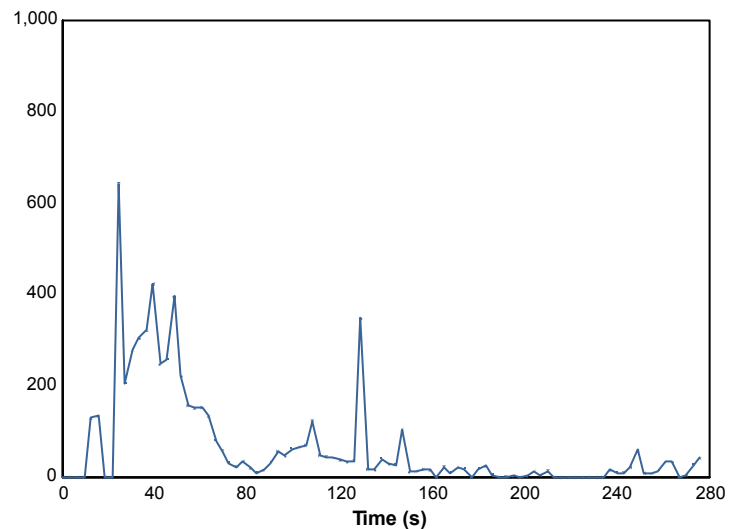
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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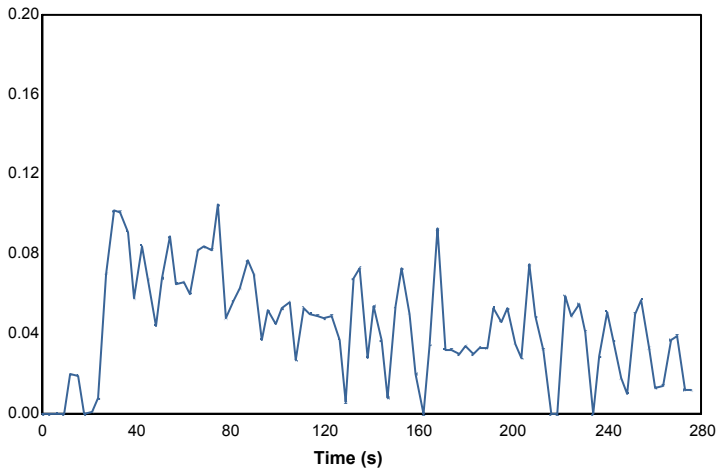
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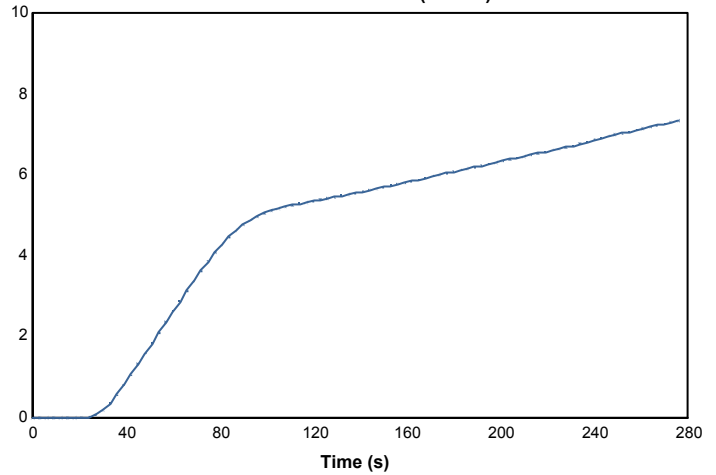
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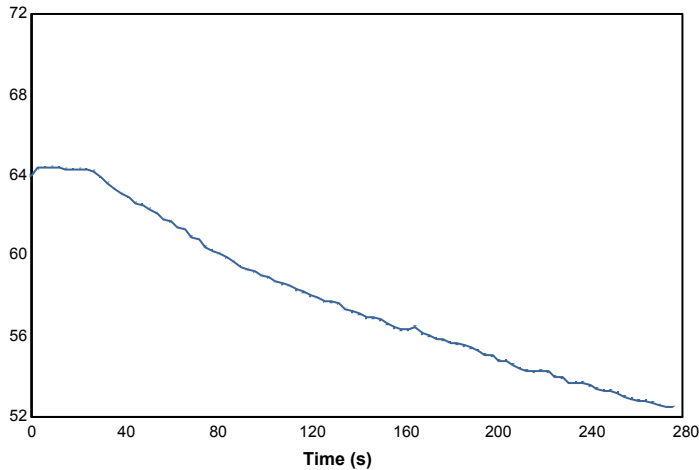
Mass loss rate (g/s)



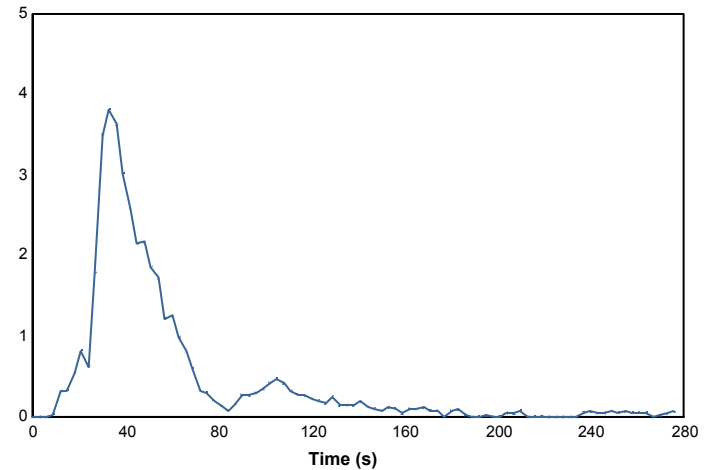
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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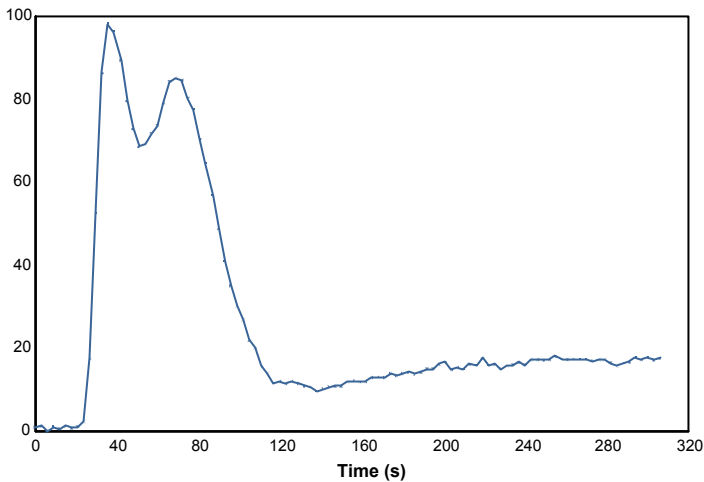
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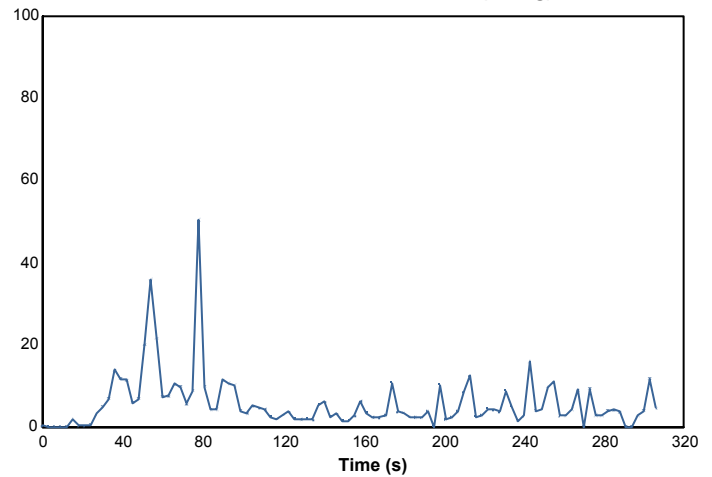
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Specimen : 2

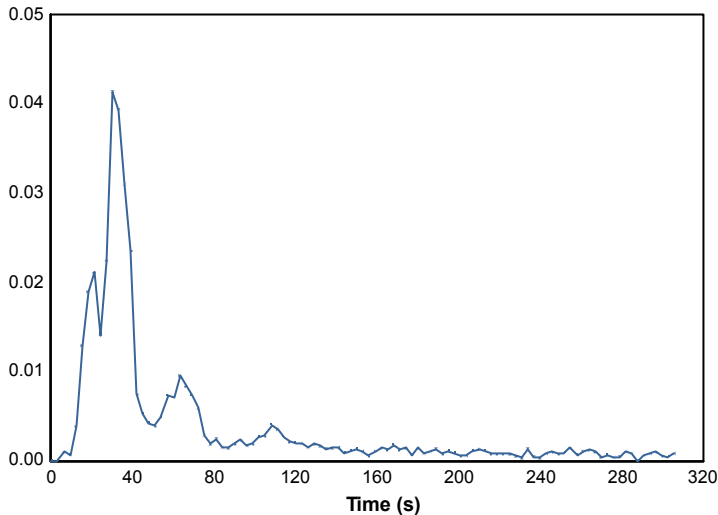
Heat release rate (kW/m²)



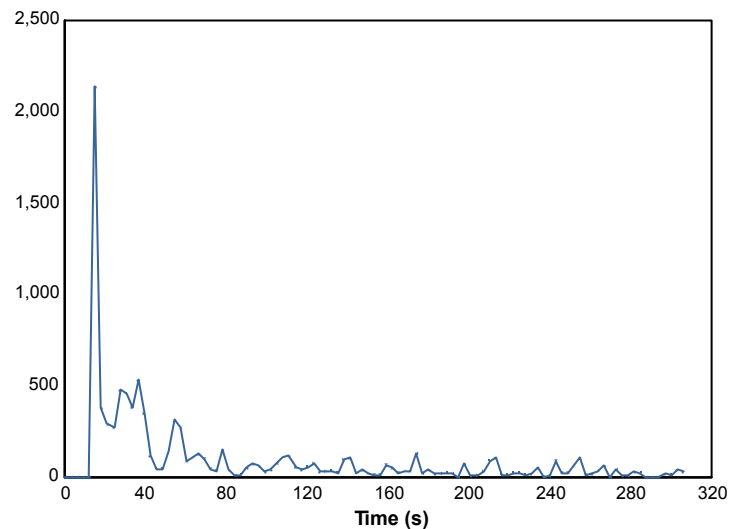
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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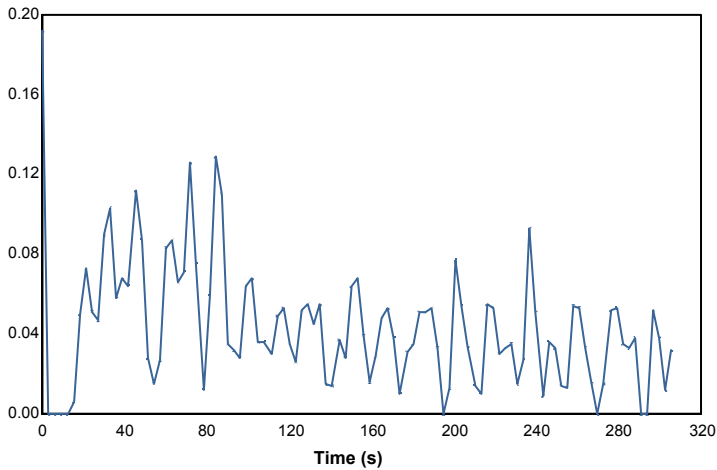
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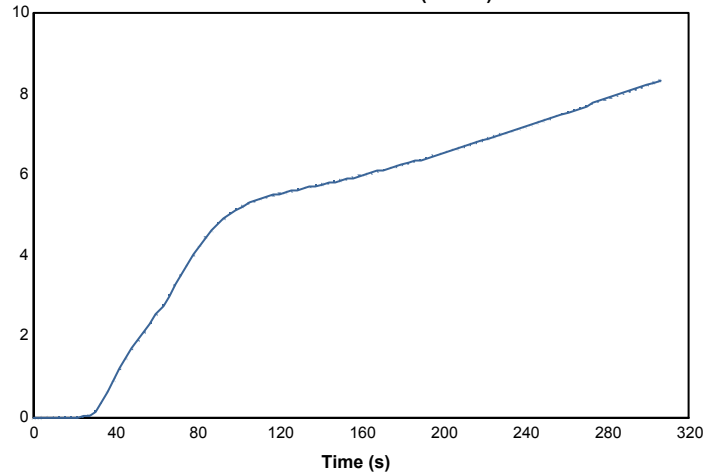
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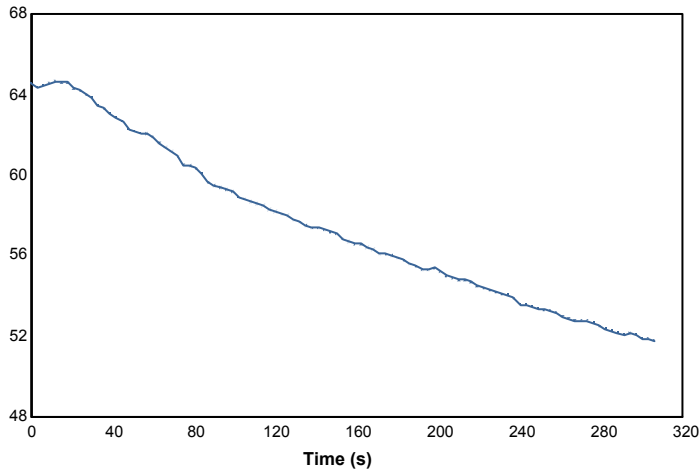
Mass loss rate (g/s)



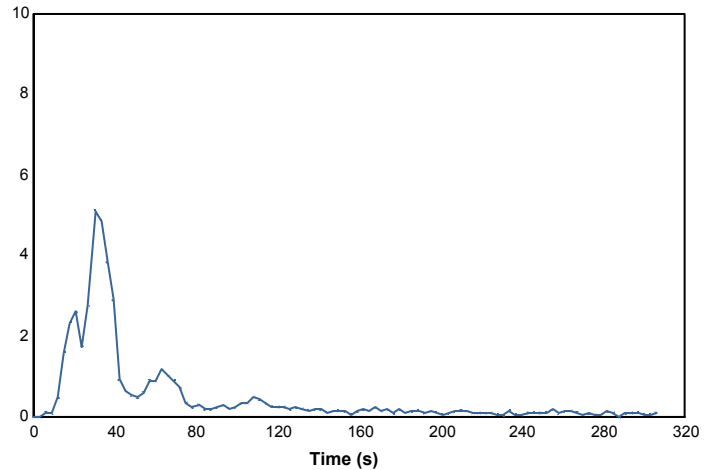
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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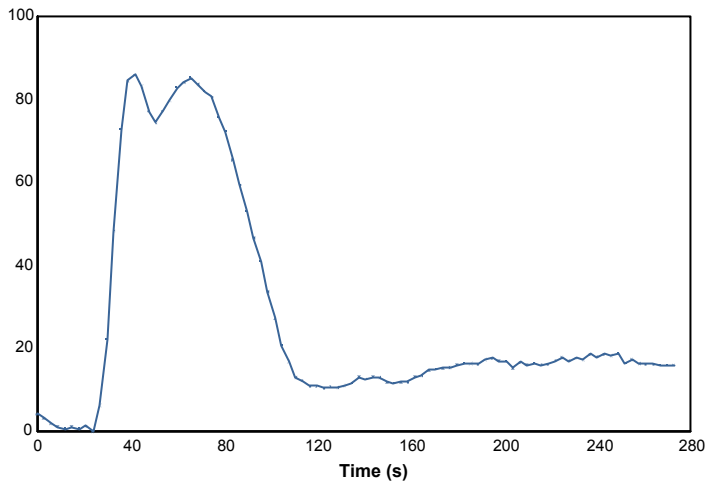
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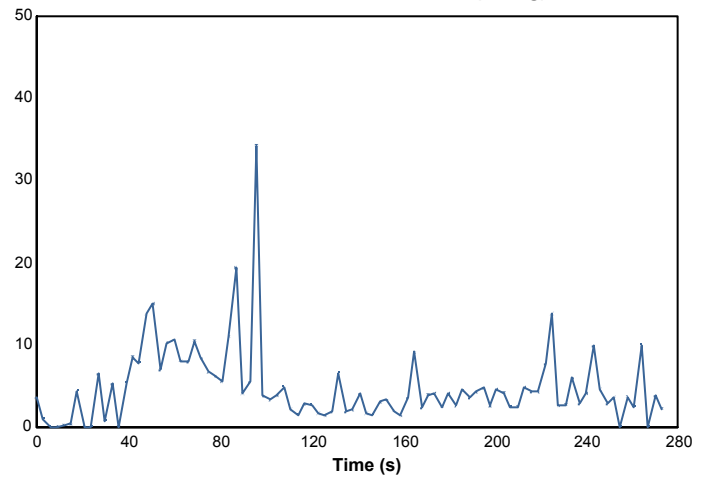
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Specimen : 3

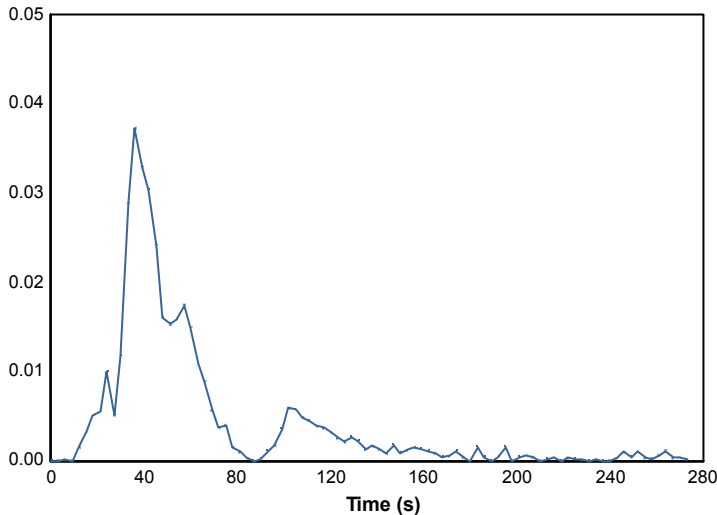
Heat release rate (kW/m²)



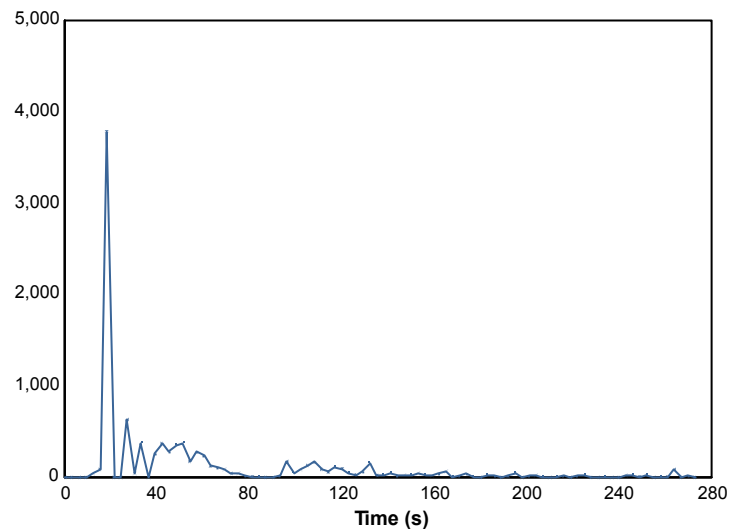
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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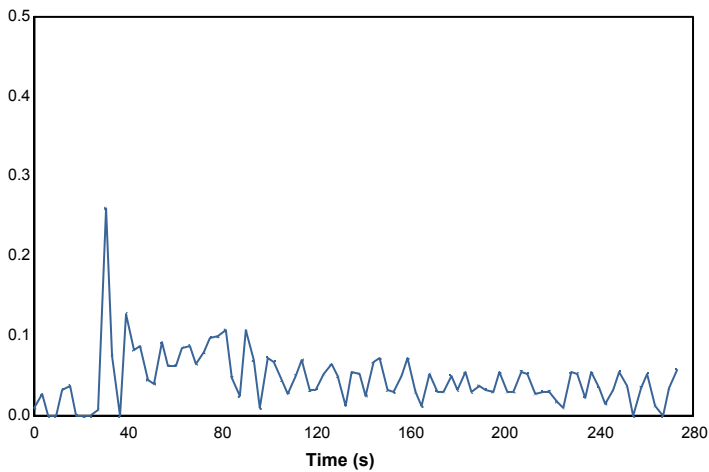
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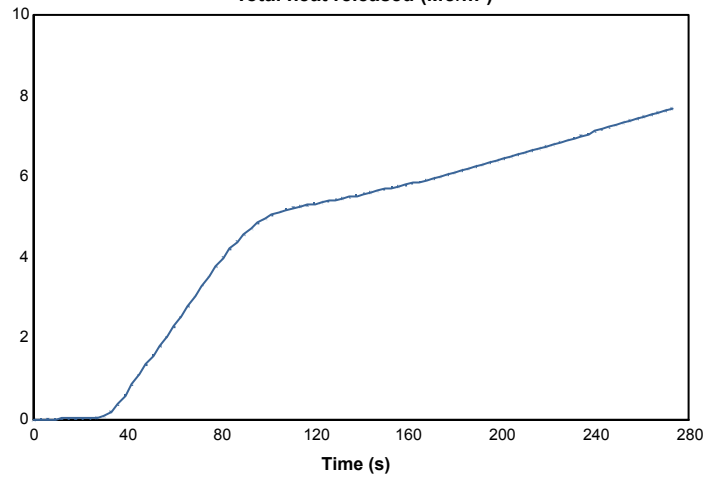
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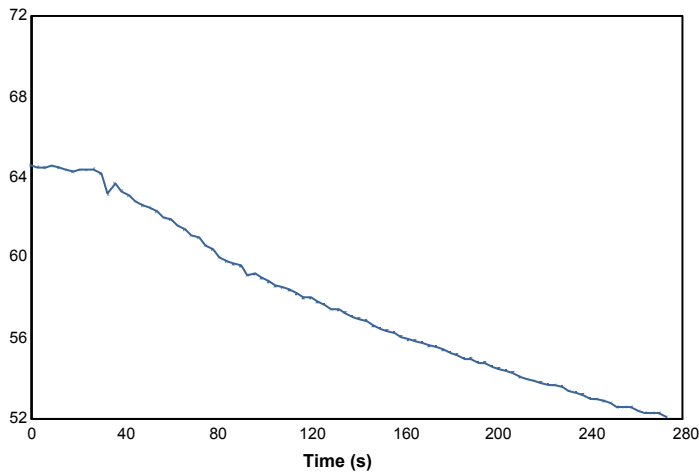
Mass loss rate (g/s)



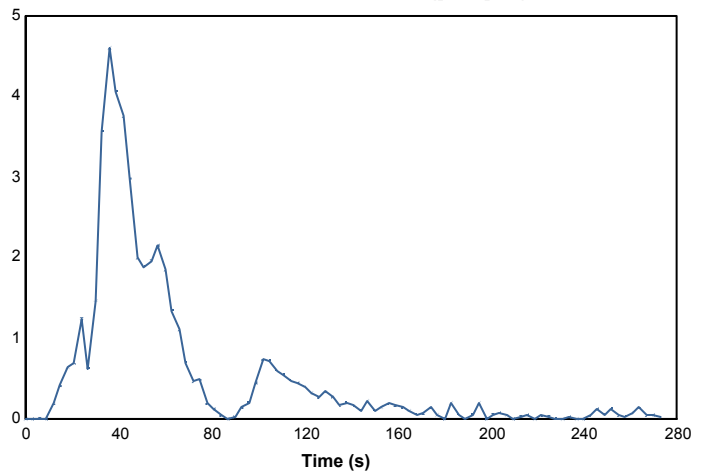
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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