

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.

Test Sponsor : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 20-002288
Issue Date : 25/05/2020
Print Date : 25/05/2020

Sponsor Product Clients Ref : "Laminex AbsoluteMatte Laminate"
High Pressure Laminate
Nominal Composition : Paper impregnated with phenolic based resin
Nominal Mass per Unit Area/Density : 1410kg/m3
Nominal Thickness : 0.7mm

Product Group Number Classification : 2

Average Specific Extinction Area : 11.7 m²/kg



Fiona McDonald
Testing Technologist

44063

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TEST REPORT

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22 Trewin Street
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Sample Description Clients Ref : "Laminex AbsoluteMatte Laminate"
High Pressure Laminate
Nominal Composition : Paper impregnated with phenolic based resin
Nominal Mass per Unit Area/Density : 1410kg/m³
Nominal Thickness : 0.7mm

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

Date Tested 22/05/2020
Operator AWTA Test Operator 3
Face Tested face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	45.6	47.0	42.0	44.9	kW/m ²
Average Specific extinction area	9.2	12.6	13.4	11.7	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	12	12	10	11	sec
Test duration	277	311	359	316	sec
Peak heat release after ignition	179.5	184.4	195.1	186.3	kW/m ²
Average heat at 60 s	125.2	129.7	126.1	127.0	kW/m ²
Average heat at 180 s	58.6	63.4	62.9	61.6	kW/m ²
Average heat at 300 s	n/a	n/a	45.6	15.2	kW/m ²
Total heat released	12.0	14.0	14.6	13.5	MJ/m ²

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Average effective heat of combustion	7.1	7.6	7.3	7.4	MJ/kg
Initial thickness	7	7		7.0	mm
Initial mass	92.9	92.1	92.3	92.4	g
Mass remaining	79.2	76.9	76.2	77.4	g
Mass percentage pyrolysed	14.7	16.6	17.4	16.2	%
Mass loss	1.7	1.9	2.0	1.9	kg/m ²
Average rate of mass loss	6.4	6.2	5.8	6.1	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.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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

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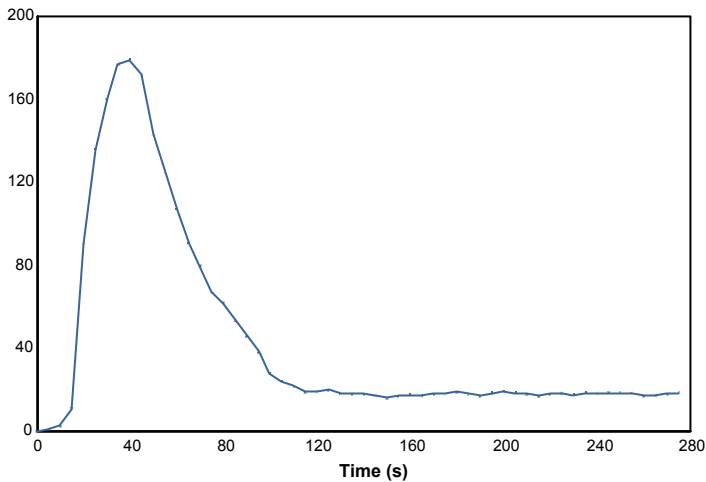
TEST REPORT

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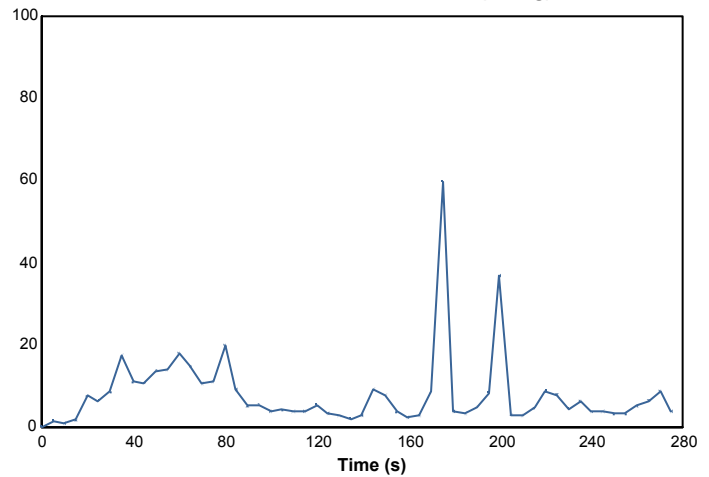
Test Number : 20-002288
Issue Date : 22/05/2020
Print Date : 25/05/2020

Specimen : 1

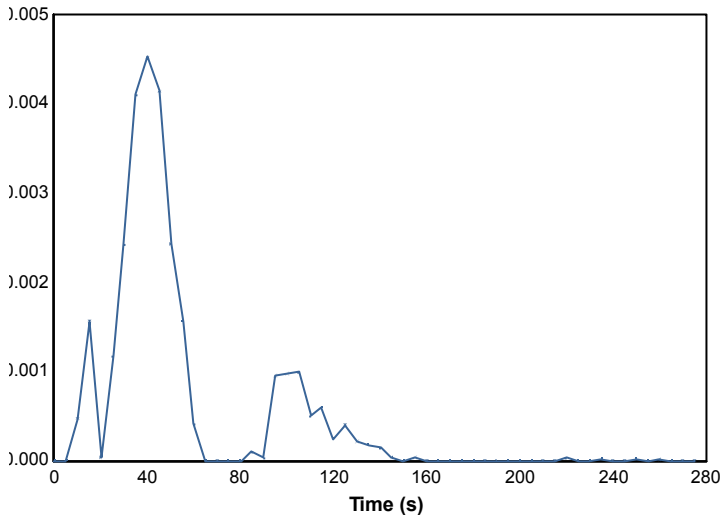
Heat release rate (kW/m²)



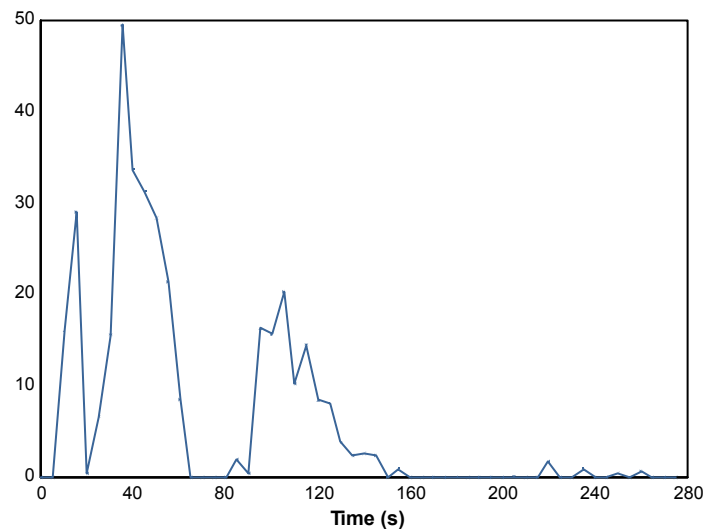
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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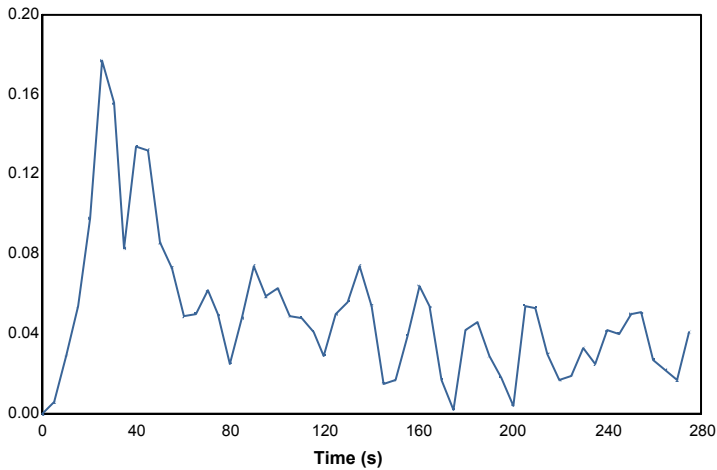
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TEST REPORT

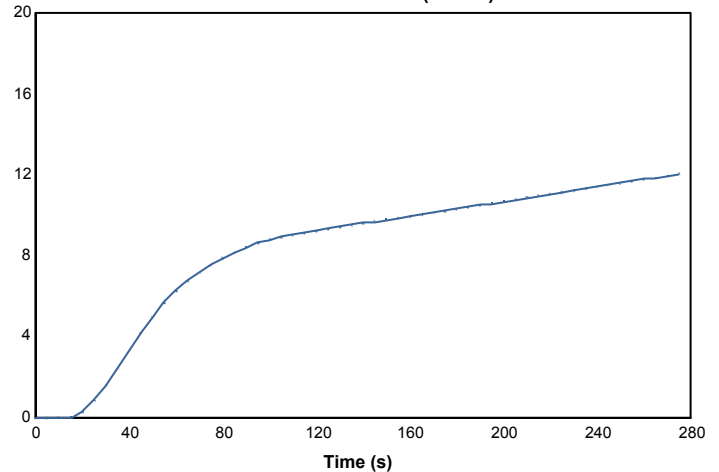
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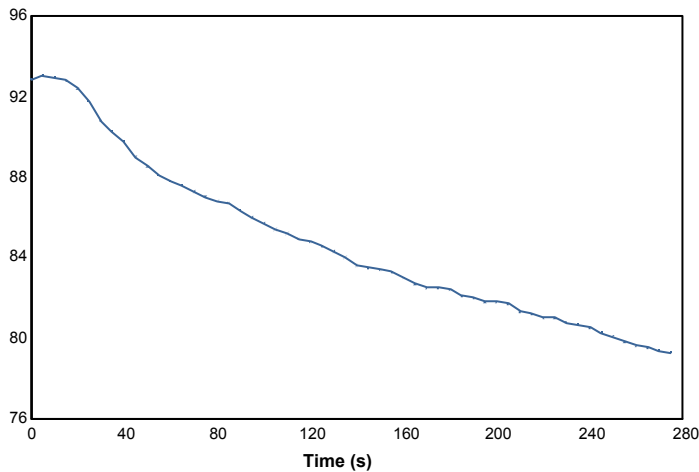
Mass loss rate (g/s)



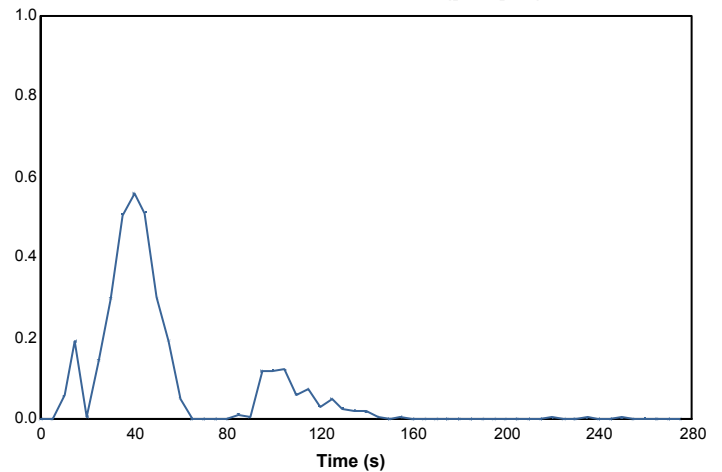
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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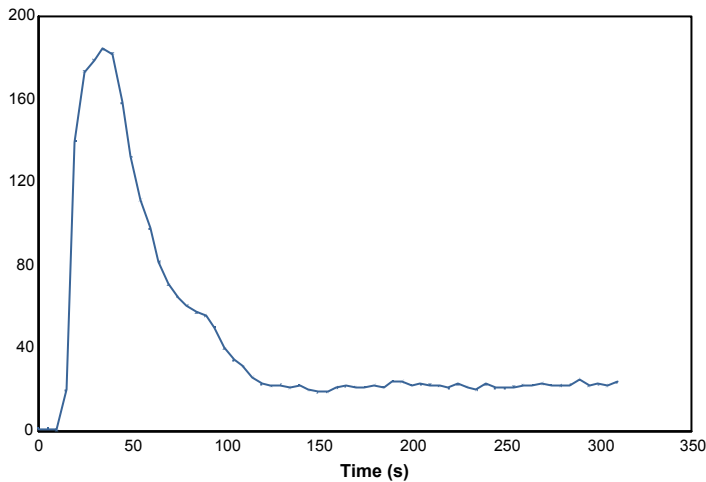
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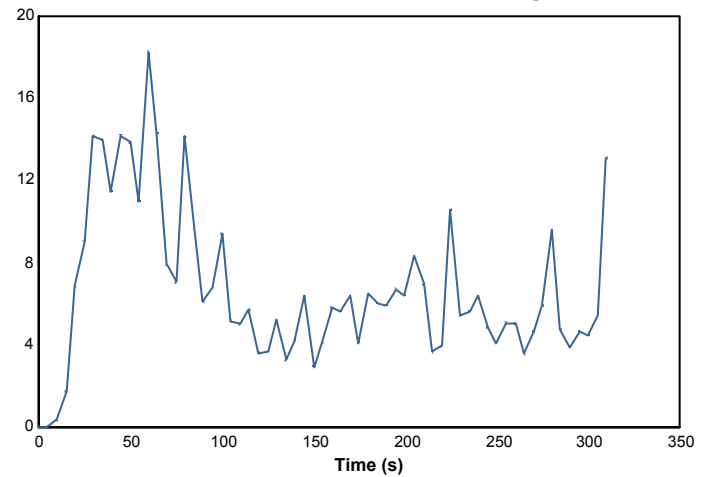
Test Number : 20-002288
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Specimen : 2

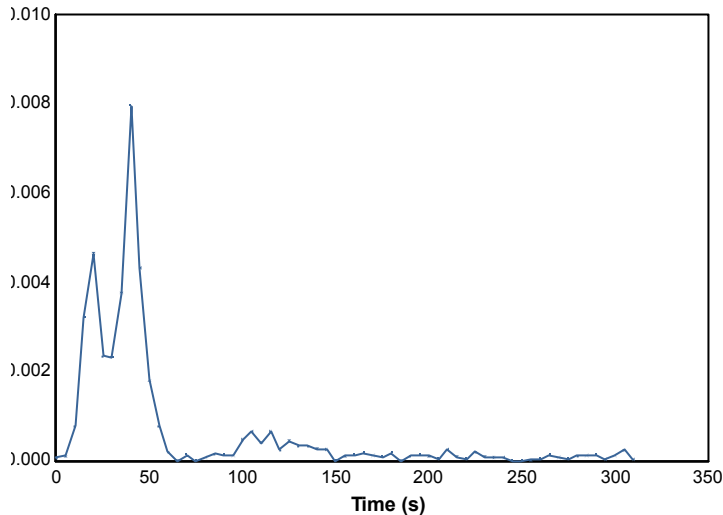
Heat release rate (kW/m²)



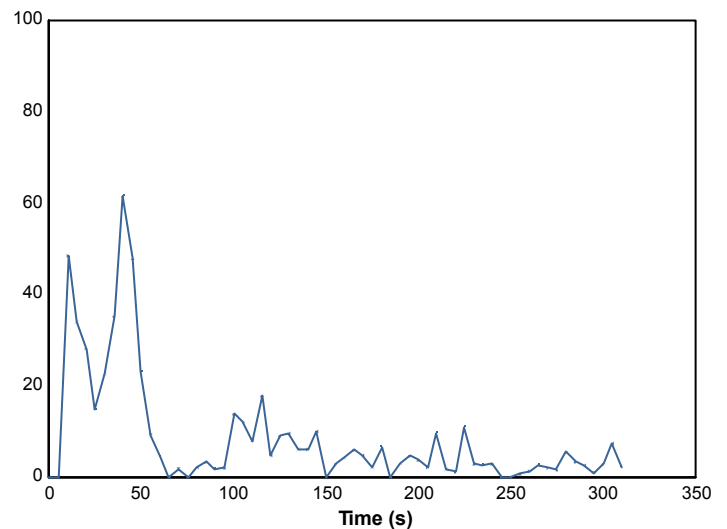
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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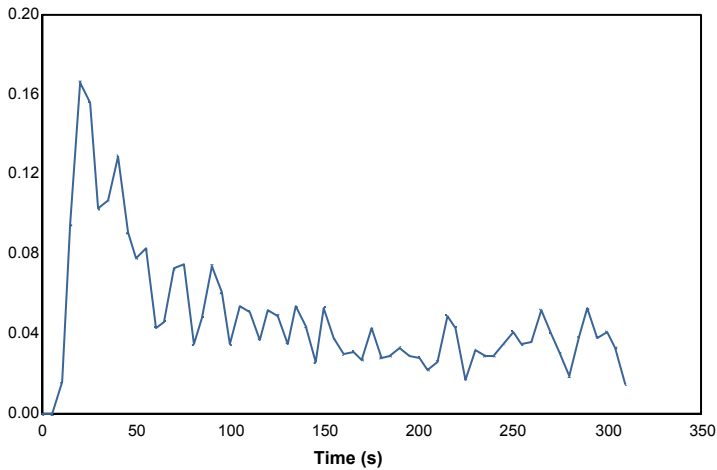
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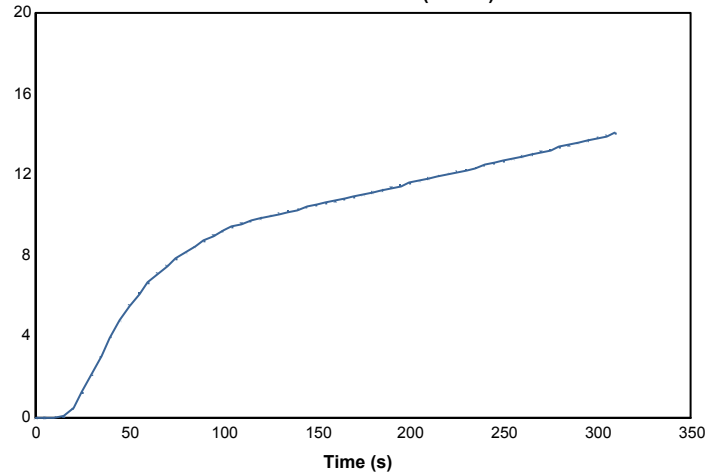
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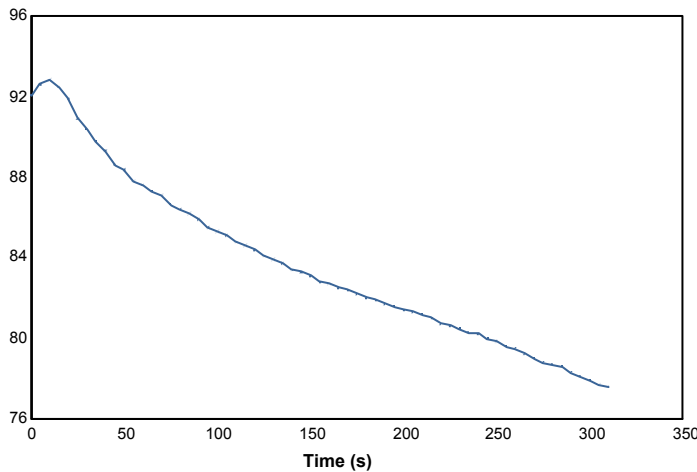
Mass loss rate (g/s)



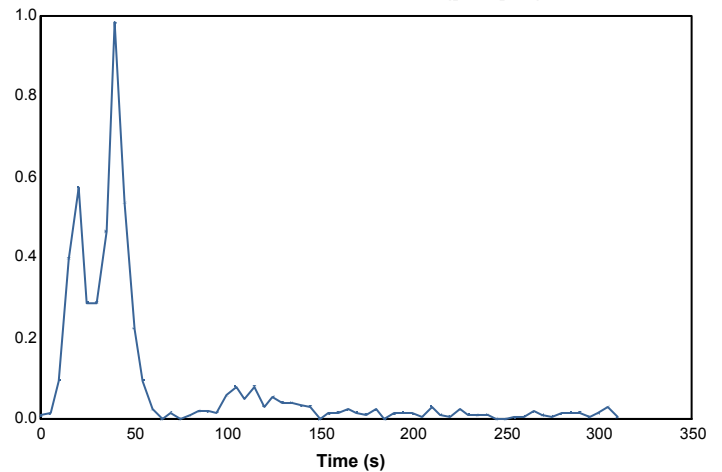
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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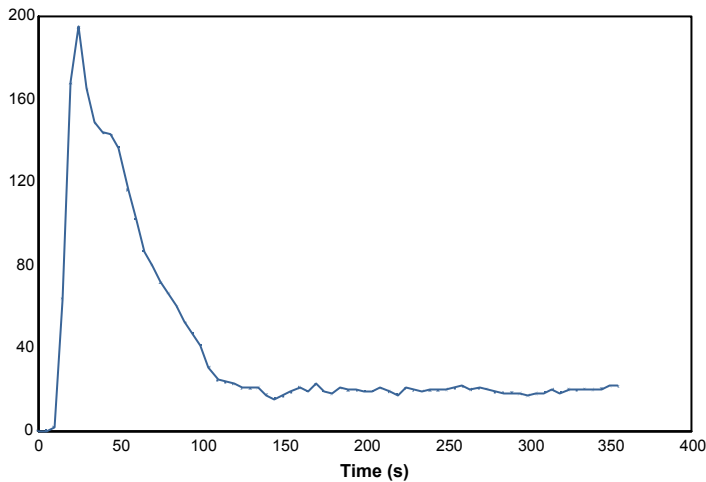
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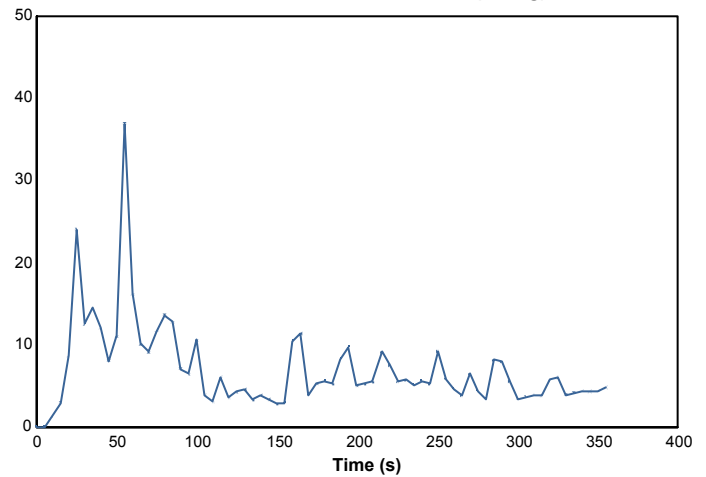
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Specimen : 3

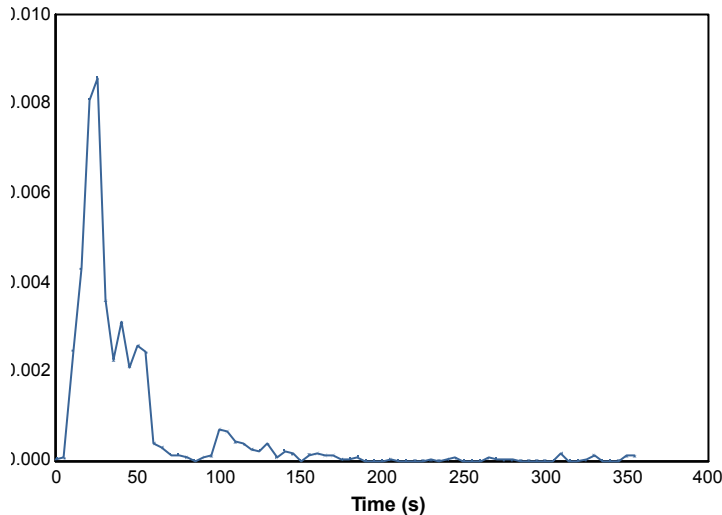
Heat release rate (kW/m²)



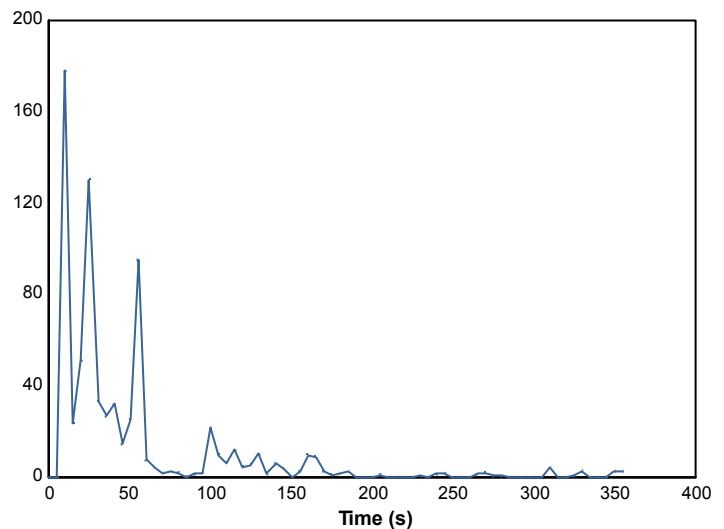
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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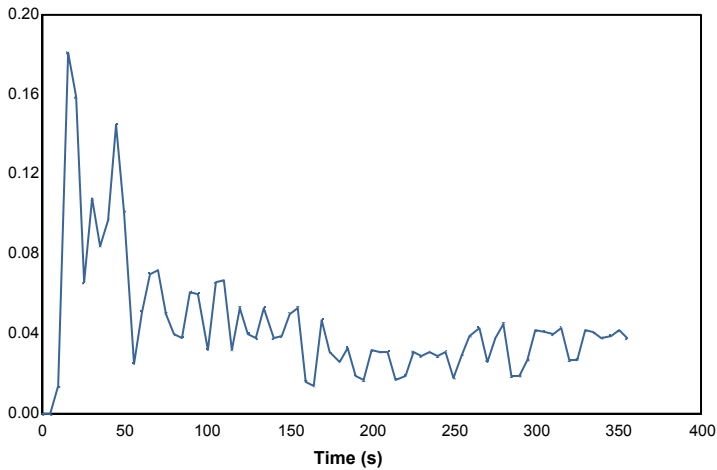
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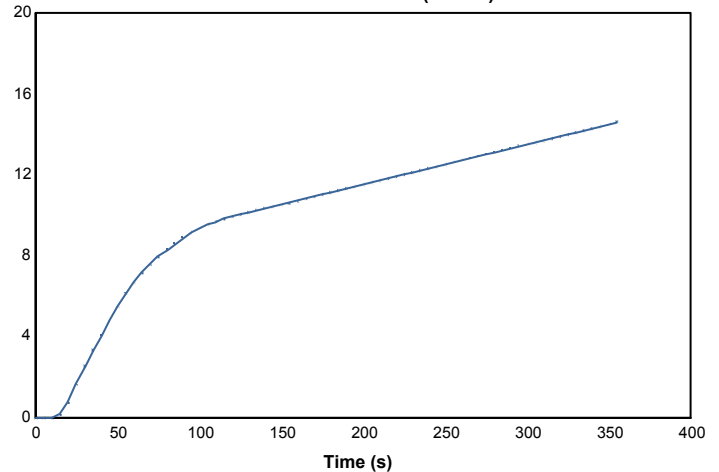
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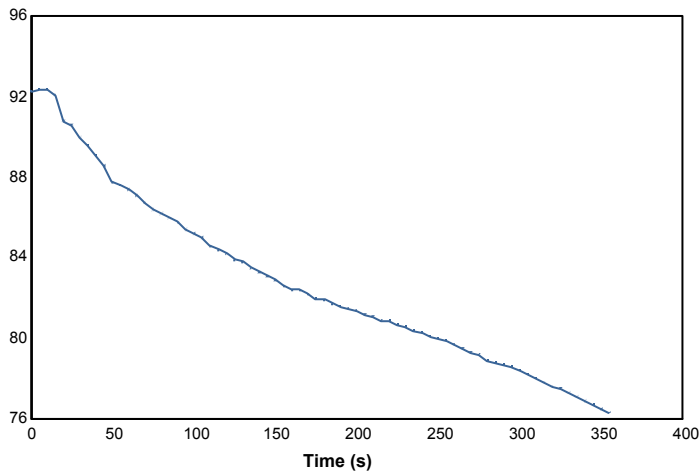
Mass loss rate (g/s)



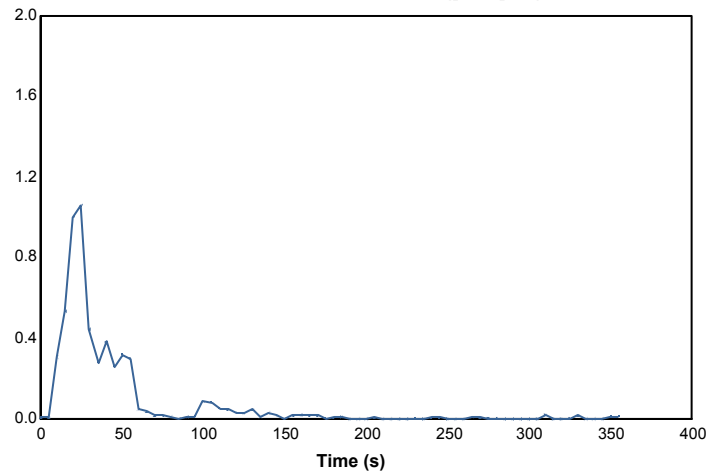
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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