

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 : NSW Leather Co Pty Ltd
16 Anderson Street
Banksmeadow NSW 2019

Test Number : 21-001208
Issue Date : 06/04/2021
Print Date : 10/05/2021

Sample Description Clients Ref : "Murano"
Leather sample
Colour : Olive
End Use : Wallcovering
Nominal Composition : Leather
Nominal Mass per Unit Area/Density : Approx 650g/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 01-04-2021
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	36.3	36.0	38.3	36.9	kW/m ²
Average Specific extinction area	17.2	21.4	24.4	21.0	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	49	39	65	51	sec
Test duration	342	329	312	328	sec
Peak heat release after ignition	96.2	100.9	94.2	97.1	kW/m ²
Average heat at 60 s	81.1	79.0	76.9	79.0	kW/m ²

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Fiona McDonald

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Average heat at 180 s	50.5	49.4	45.9	48.6	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	10.7	10.4	9.5	10.2	MJ/m ²
Average effective heat of combustion	6.3	5.5	6.6	6.1	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	86.3	88.7	86.3	87.1	g
Mass remaining	72.6	73.2	74.8	73.5	g
Mass percentage pyrolysed	15.9	17.5	13.4	15.6	%
Mass loss	1.7	1.9	1.4	1.7	kg/m ²
Average rate of mass loss	5.7	6.6	5.8	6.0	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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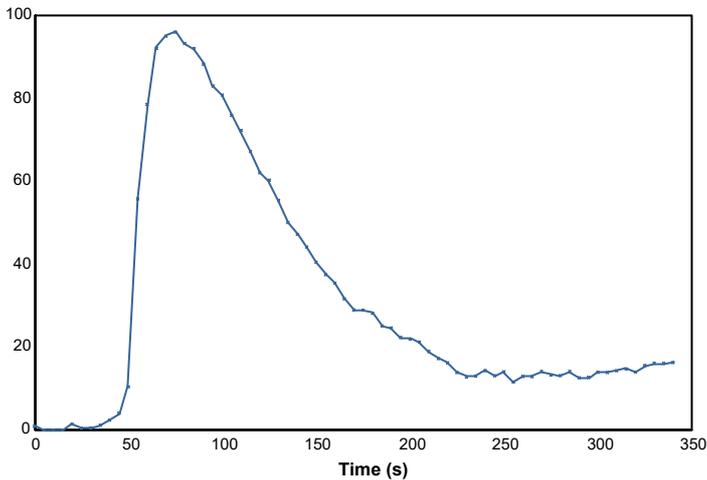
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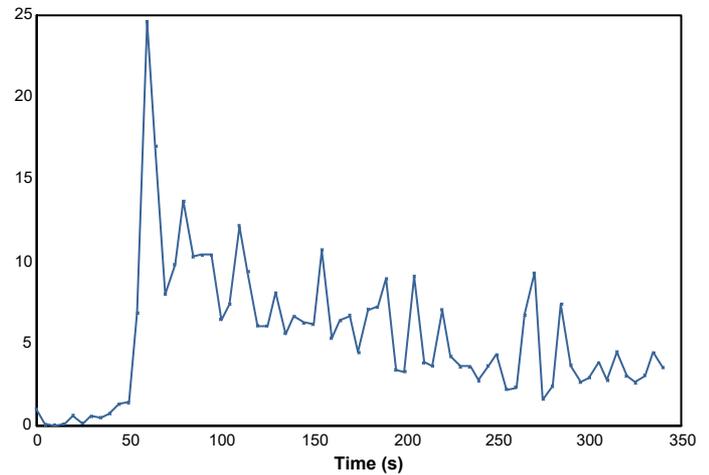
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Specimen : 1

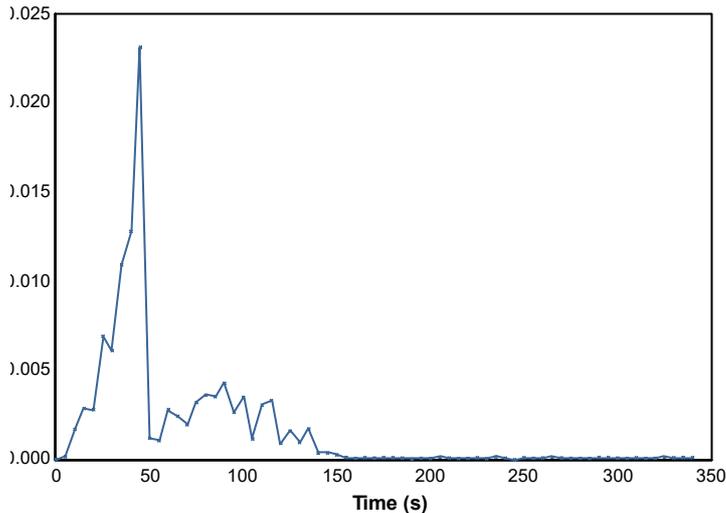
Heat release rate (kW/m²)



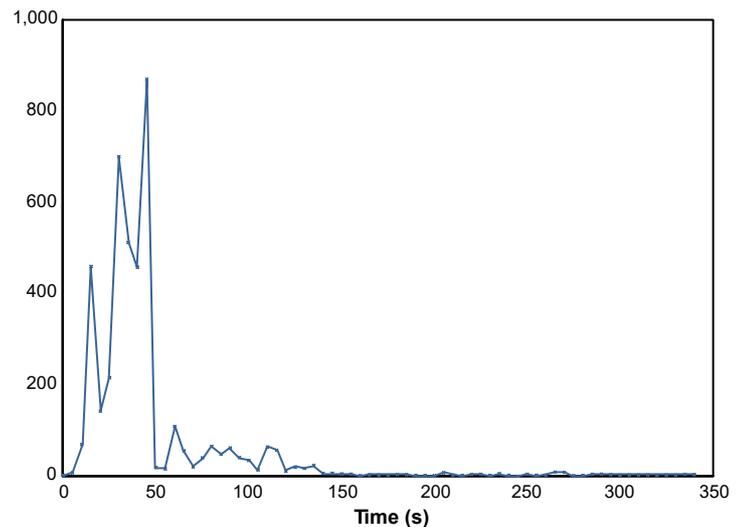
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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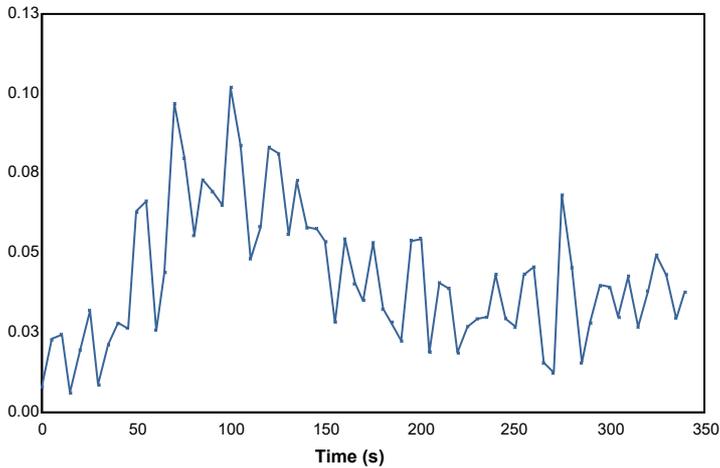
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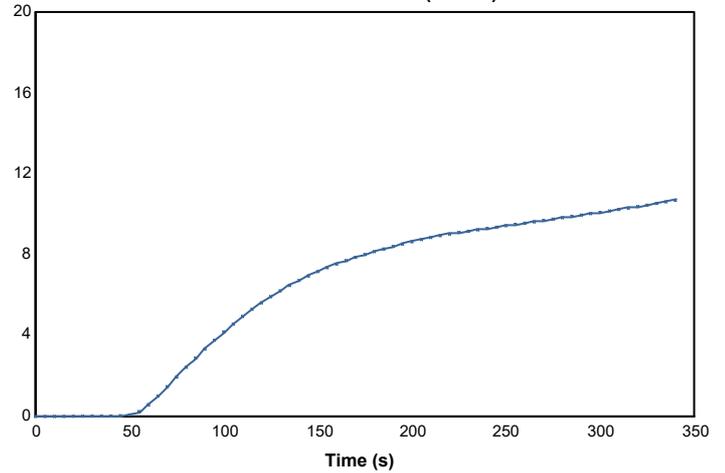
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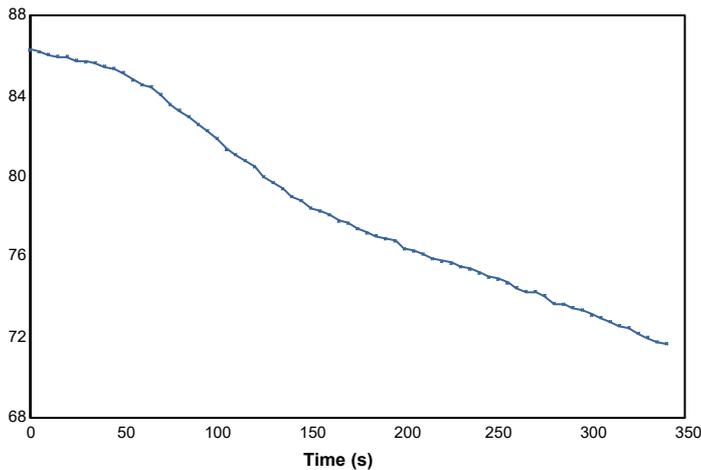
Mass loss rate (g/s)



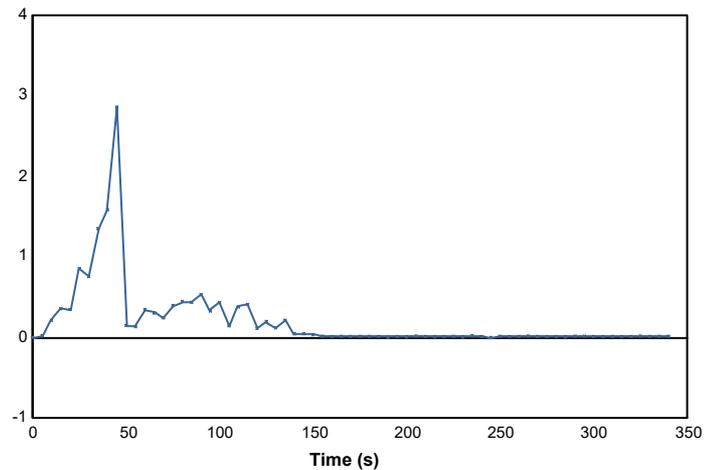
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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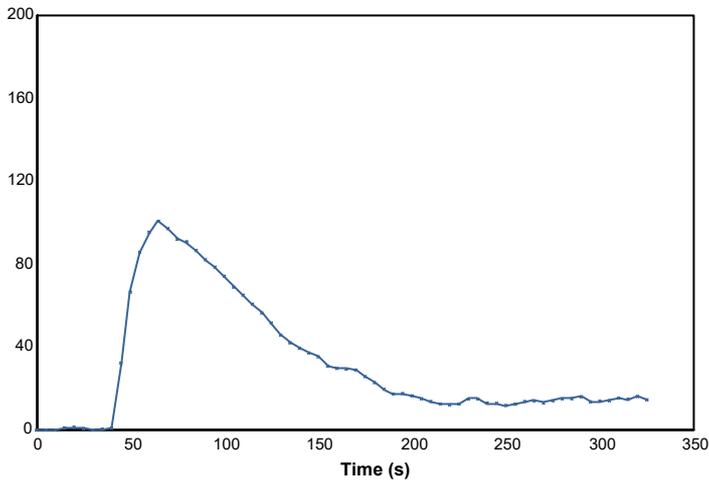
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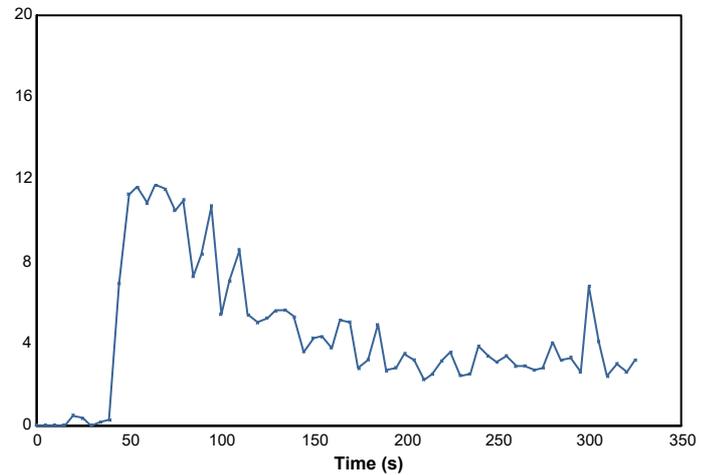
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Specimen : 2

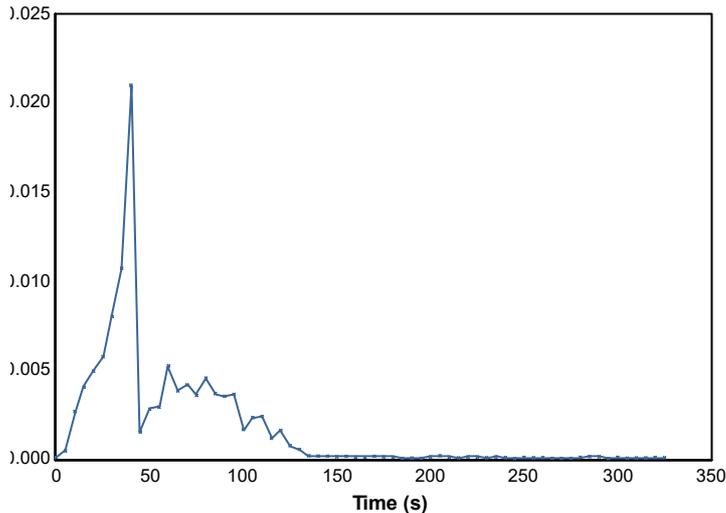
Heat release rate (kW/m²)



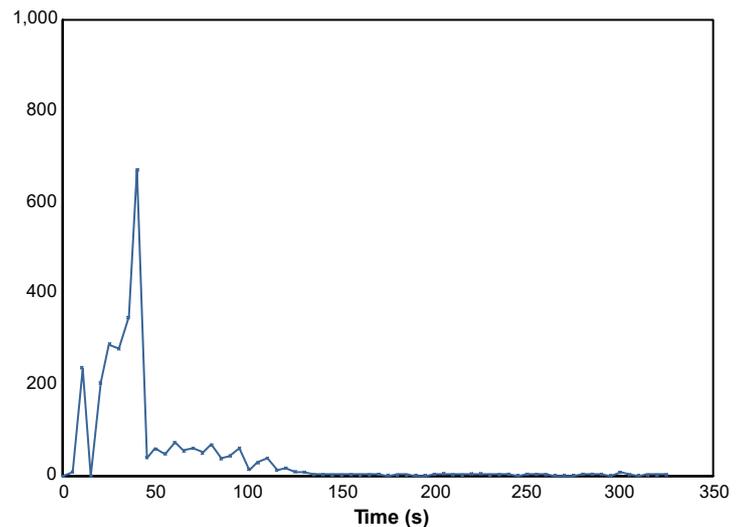
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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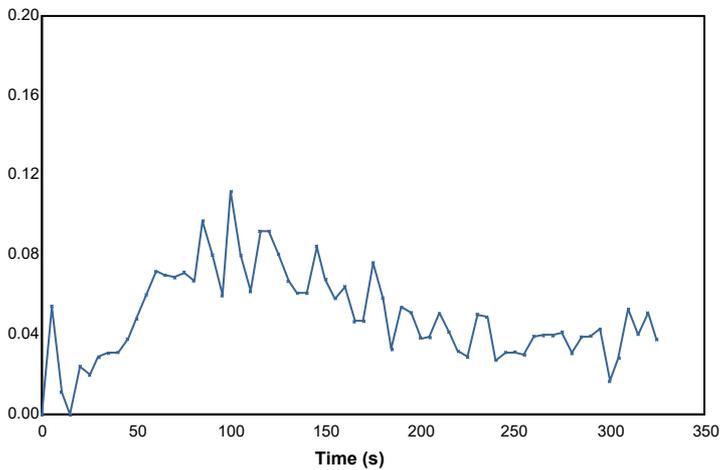
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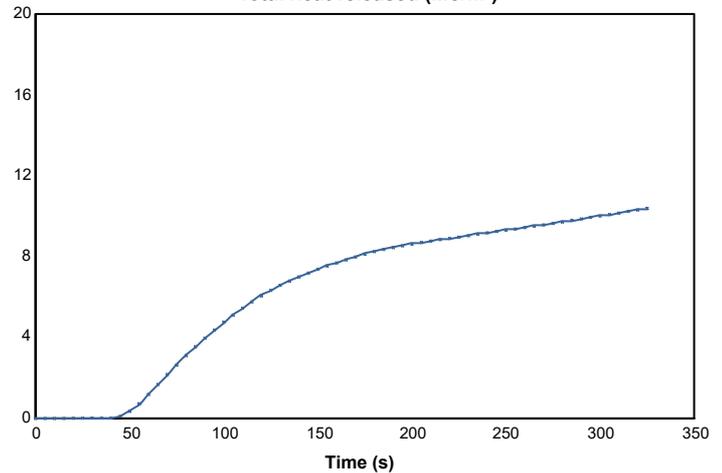
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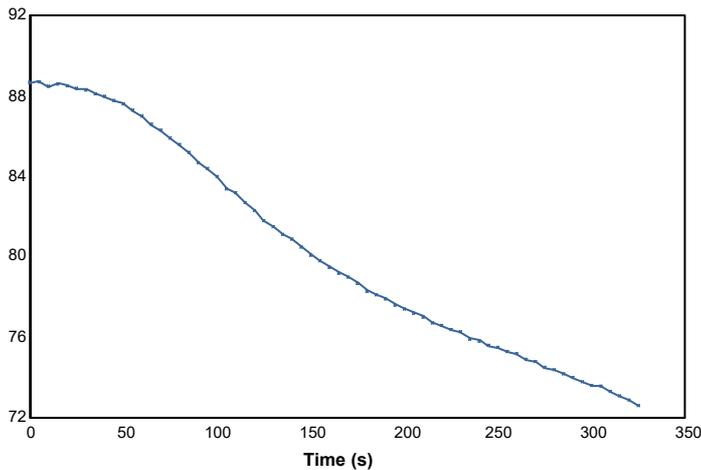
Mass loss rate (g/s)



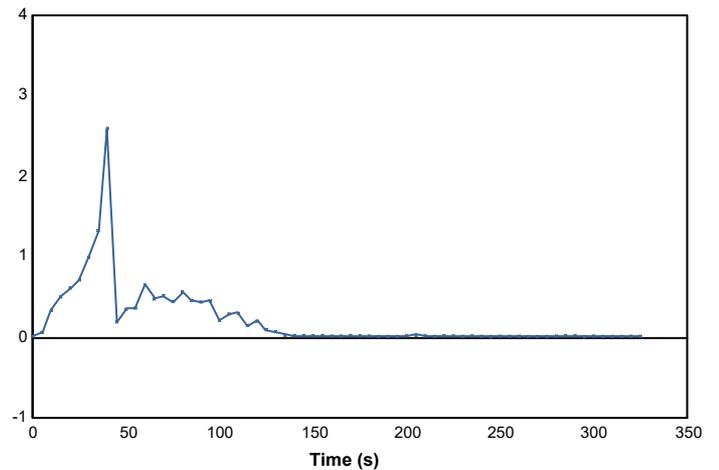
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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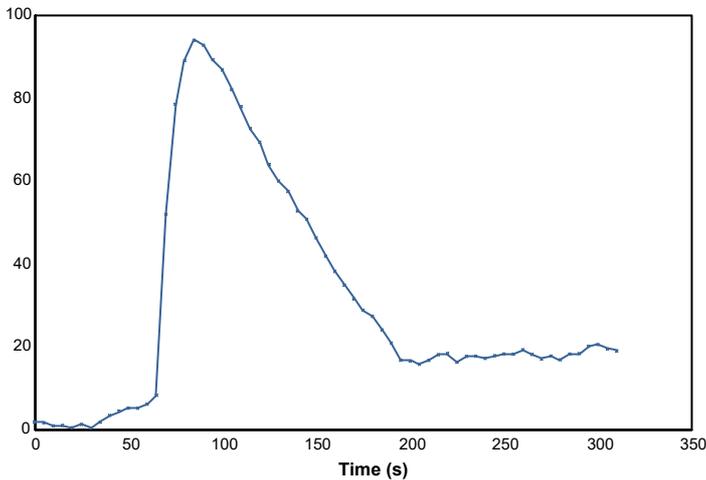
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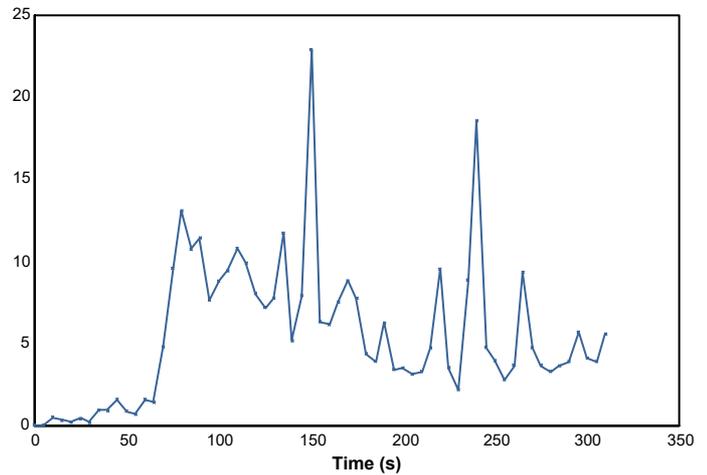
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Specimen : 3

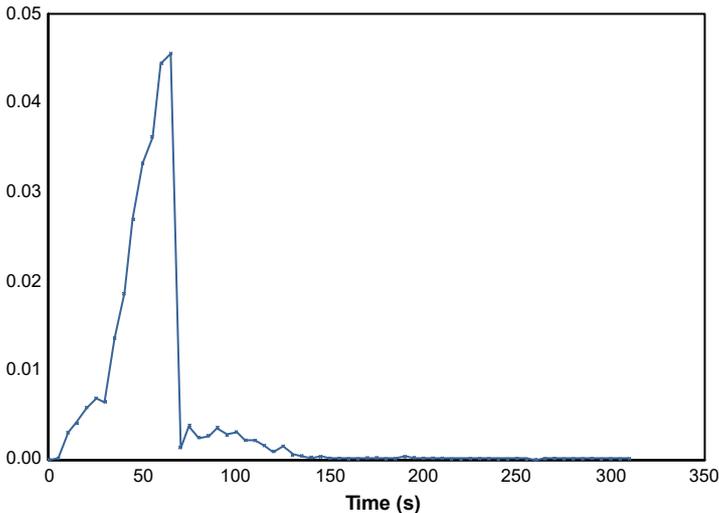
Heat release rate (kW/m²)



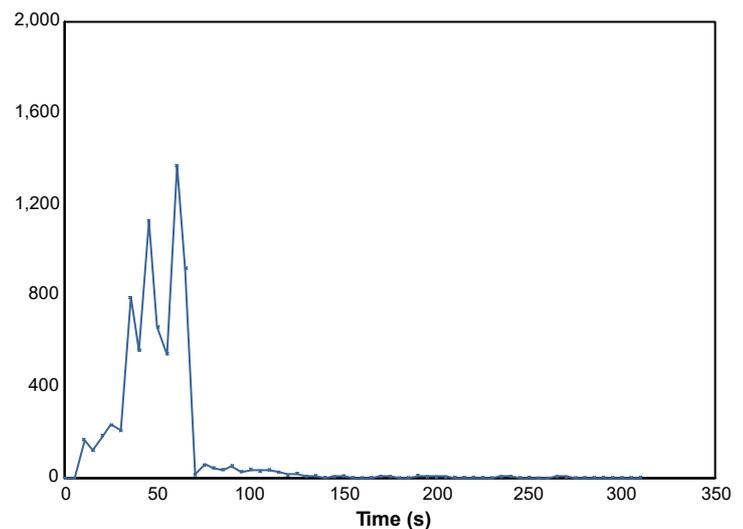
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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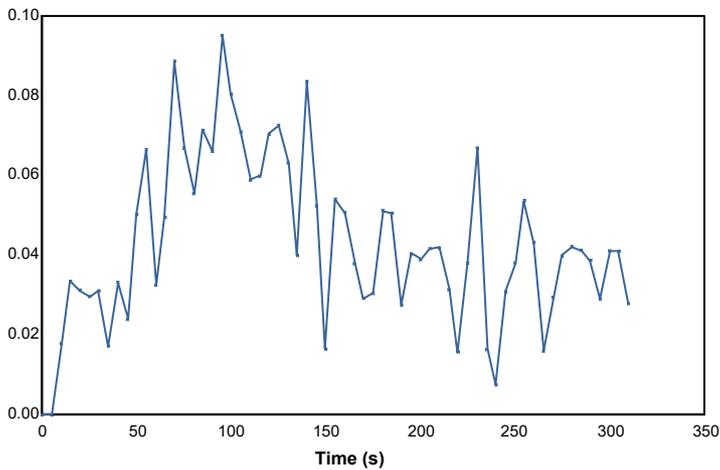
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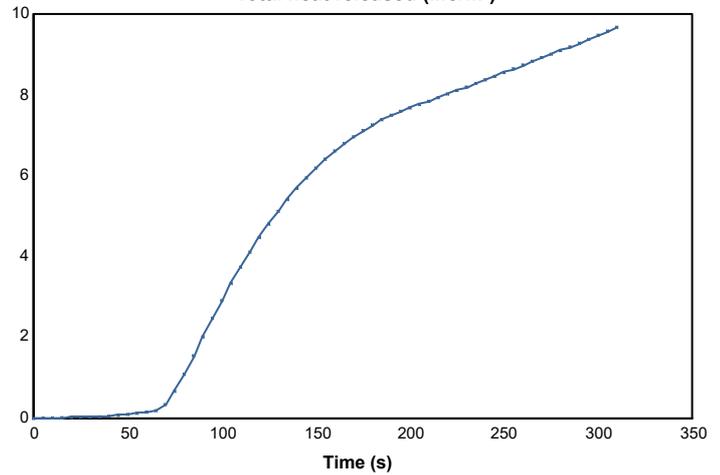
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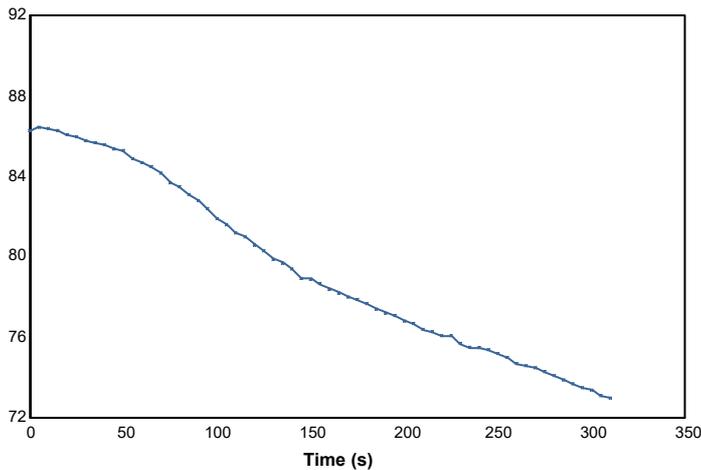
Mass loss rate (g/s)



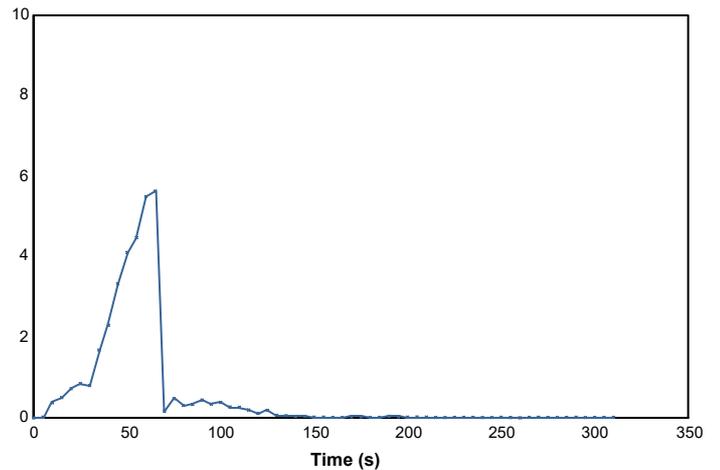
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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