

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 : Elton Group
1-5 Brough Street
Springvale VIC 3171

Test Number : 20-002591
Issue Date : 29/05/2020
Print Date : 2/06/2020

Sample Description Clients Ref : "Paperwall (T-10)"
CLPL Wallpaper
Colour : Clear Oak
End Use : Wall covering
Nominal Composition : Woodfibre paper
Nominal Mass per Unit Area/Density : Approx 170g/m²
Nominal Thickness : 0.3mm

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

Date Tested 29/05/2020
Operator AWTA Test Operator 2
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	30.7	31.8	29.3	30.6	kW/m ²
Average Specific extinction area	14.8	11.8	10.7	12.4	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	13	38	20	24	sec
Test duration	324	303	320	316	sec
Peak heat release after ignition	130.7	116.1	127.5	124.8	kW/m ²
Average heat at 60 s	84.8	82.9	88.8	85.5	kW/m ²

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APPROVED SIGNATORY

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

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Average heat at 180 s	44.3	41.9	42.7	42.9	kW/m ²
Average heat at 300 s	31.4	n/a	n/a	10.5	kW/m ²
Total heat released	9.5	8.4	8.8	8.9	MJ/m ²
Average effective heat of combustion	6.1	5.9	6.0	6.0	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	58.4	57.1	58.4	58.0	g
Mass remaining	45.5	45.3	46.8	45.9	g
Mass percentage pyrolysed	22.0	20.6	19.9	20.9	%
Mass loss	1.6	1.5	1.4	1.5	kg/m ²
Average rate of mass loss	10.9	5.4	4.8	7.0	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.

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 Roberts 656 wallcovering adhesive prior to testing.

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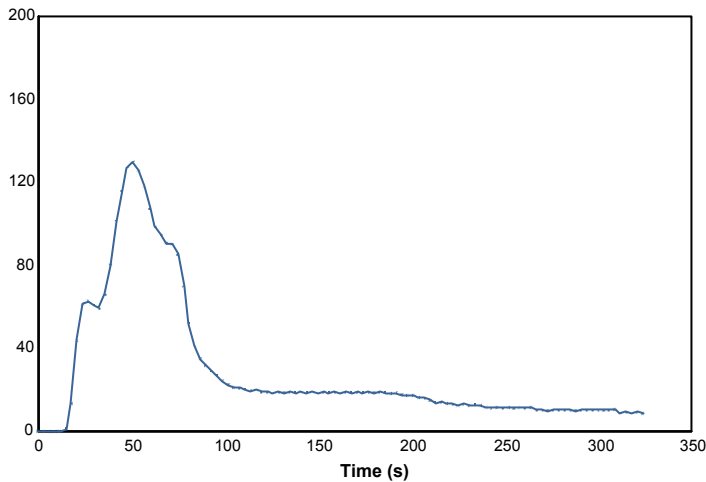
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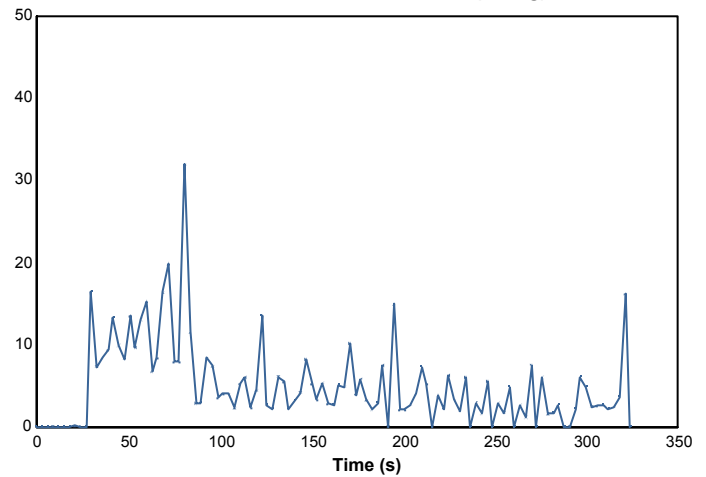
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Specimen : 1

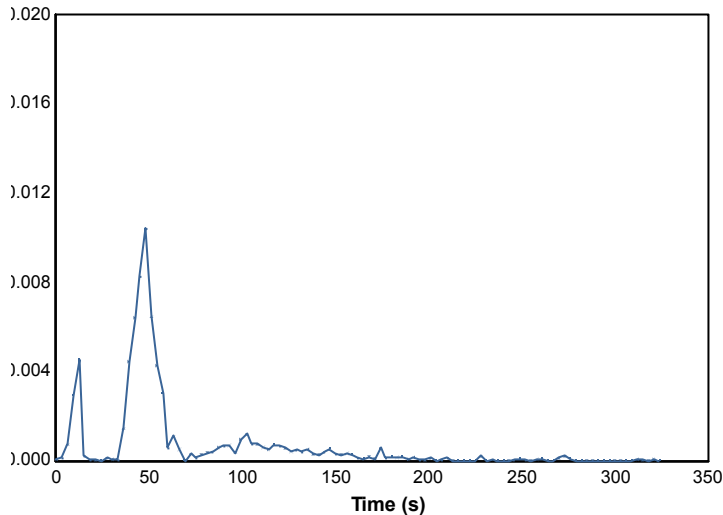
Heat release rate (kW/m²)



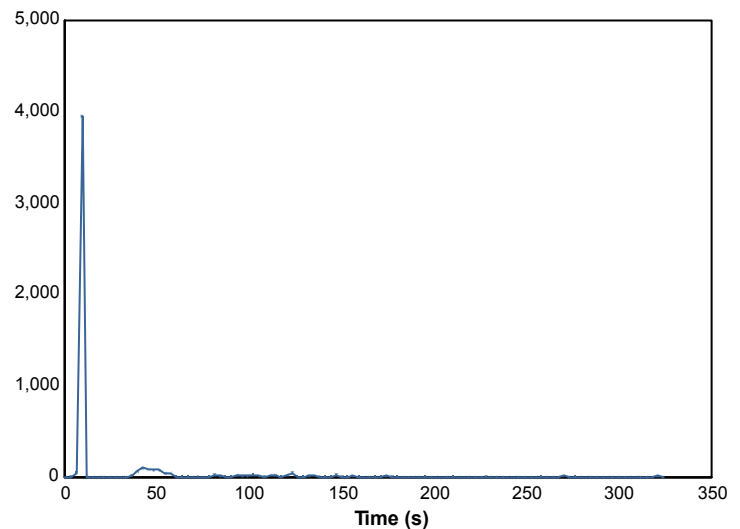
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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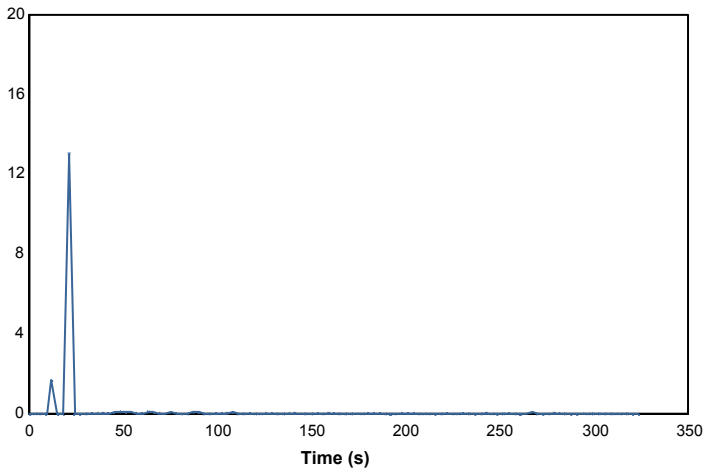
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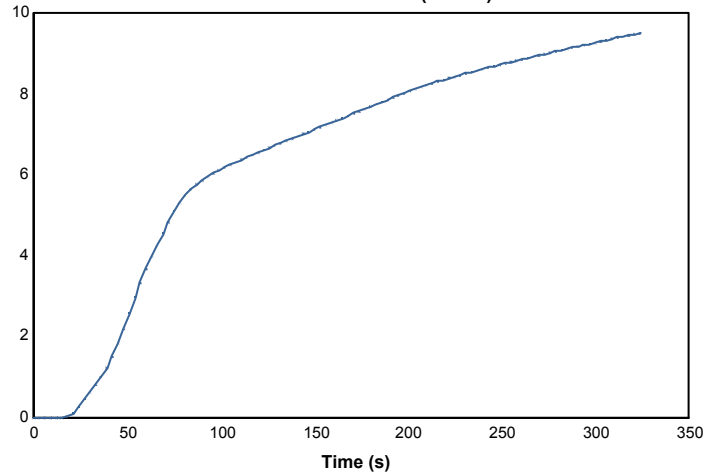
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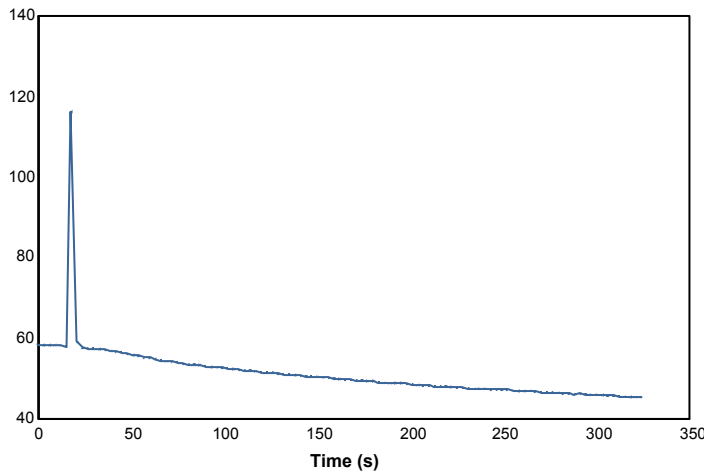
Mass loss rate (g/s)



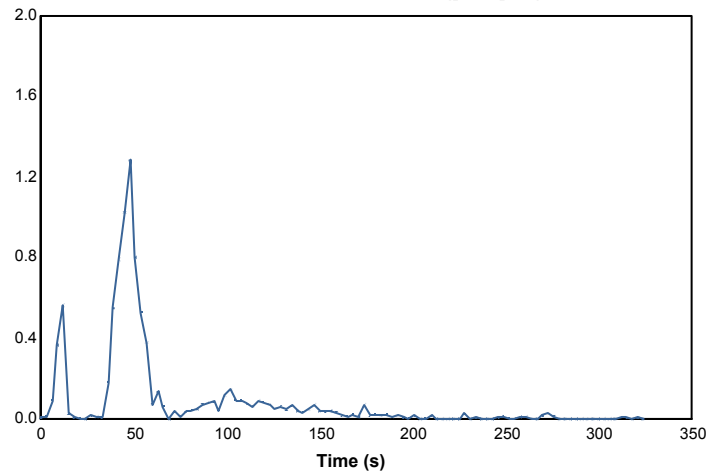
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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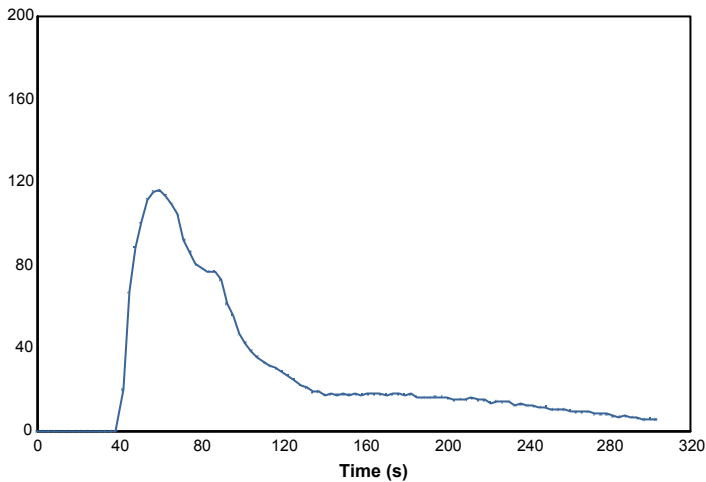
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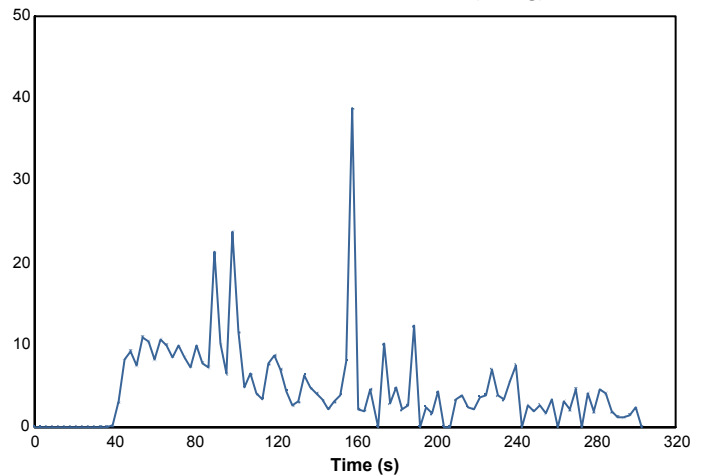
Test Number : 20-002591
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Specimen : 2

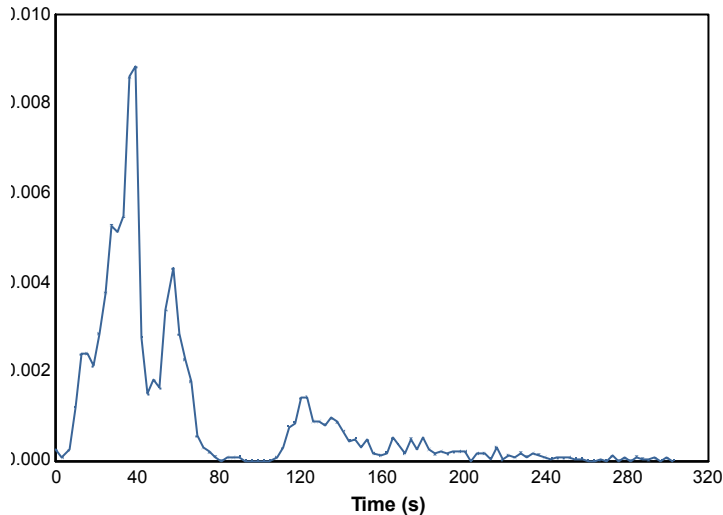
Heat release rate (kW/m²)



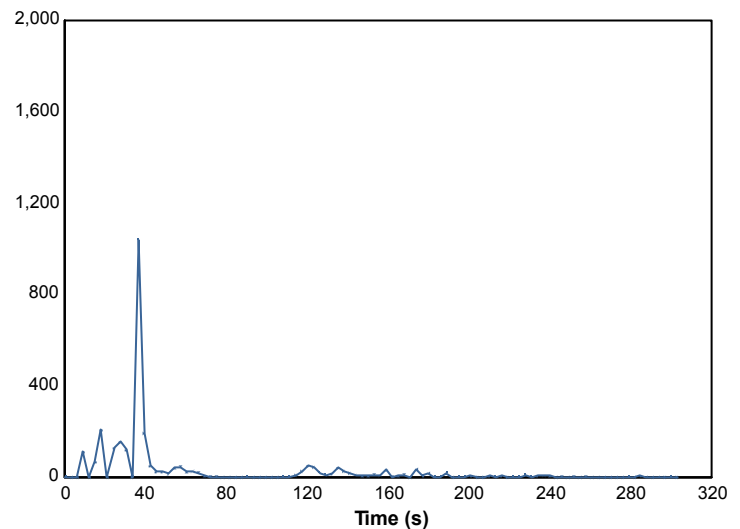
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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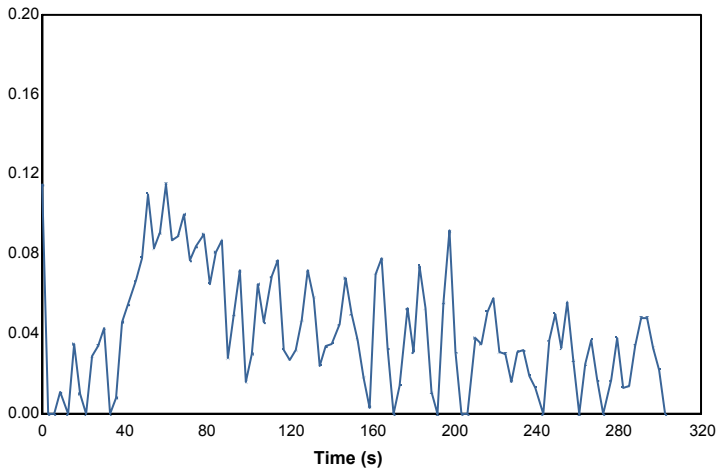
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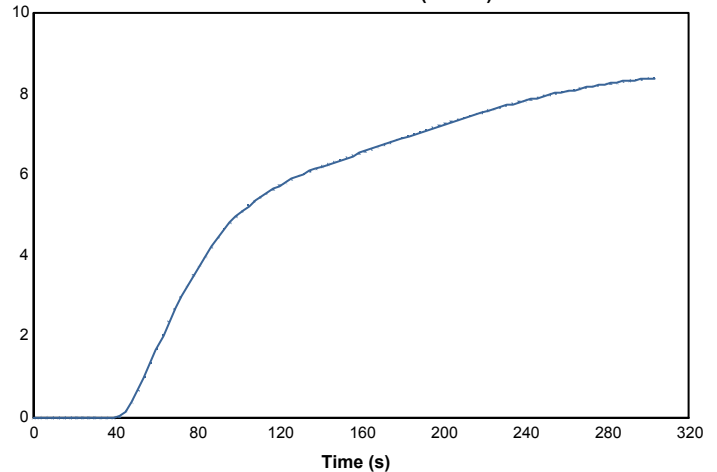
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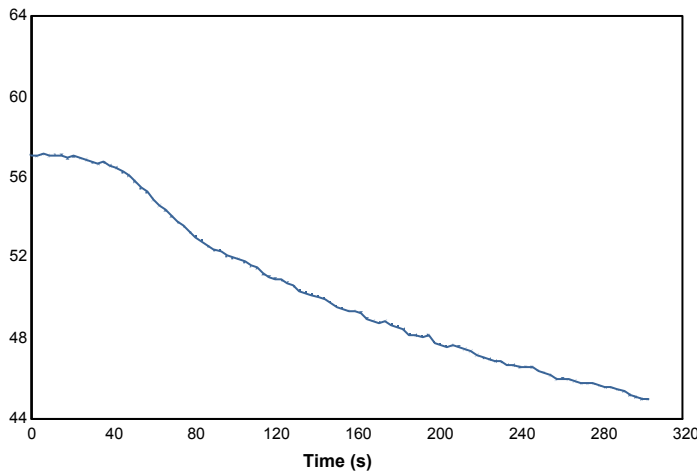
Mass loss rate (g/s)



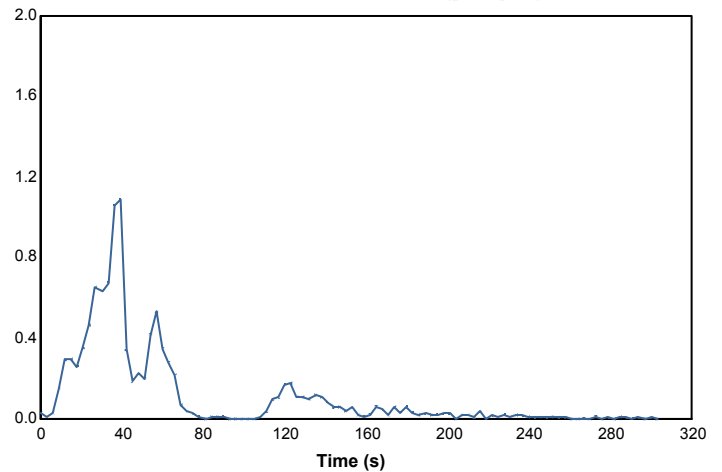
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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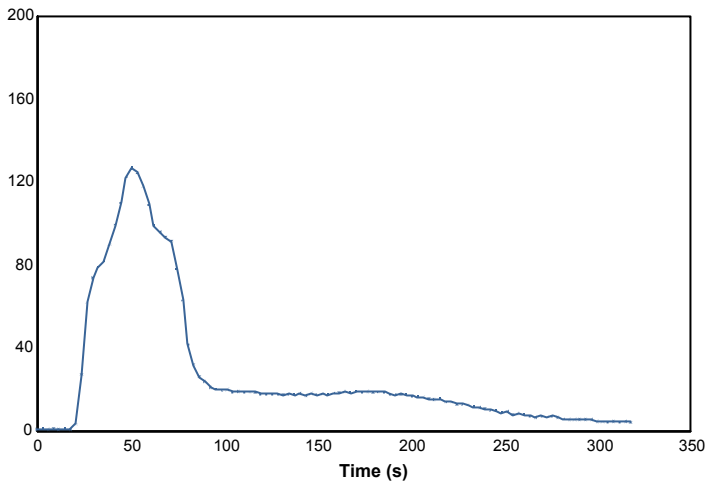
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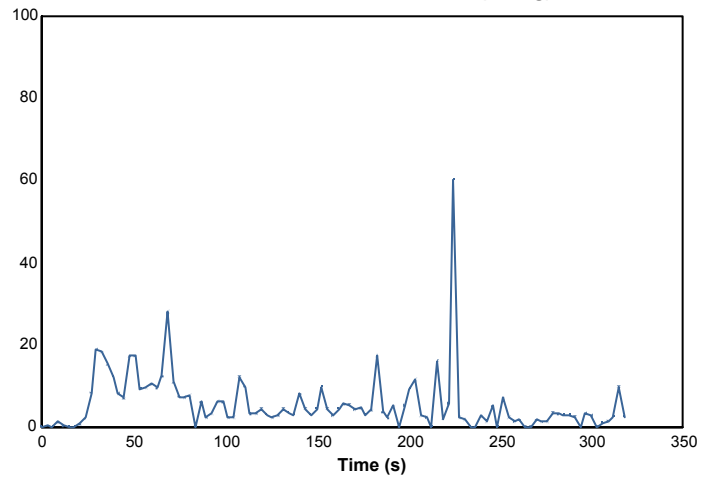
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Specimen : 3

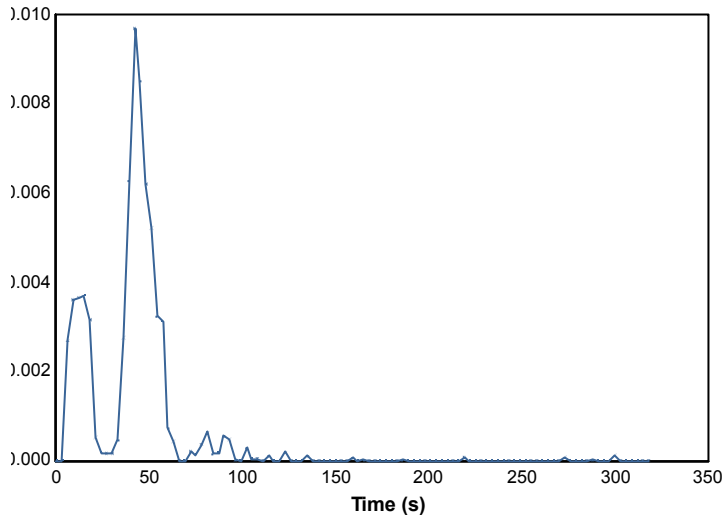
Heat release rate (kW/m²)



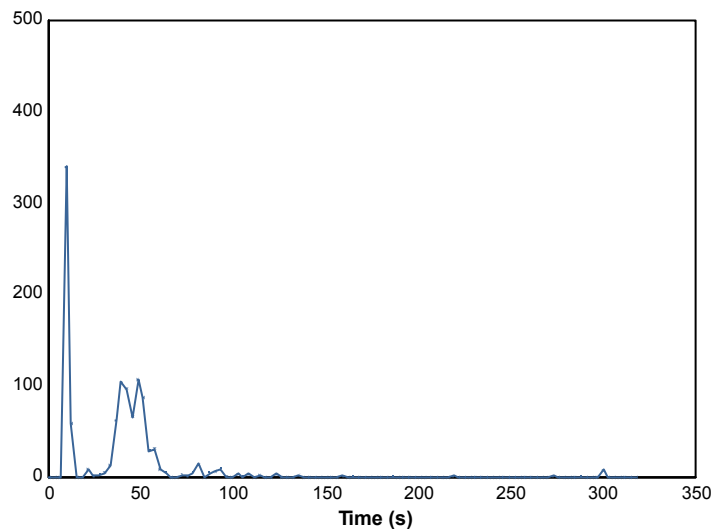
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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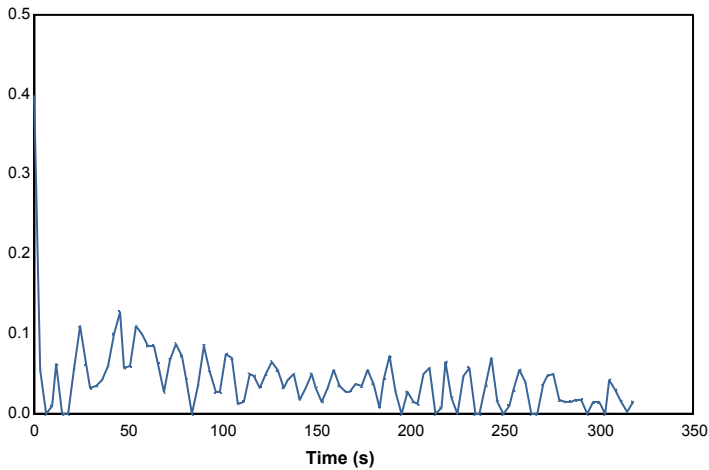
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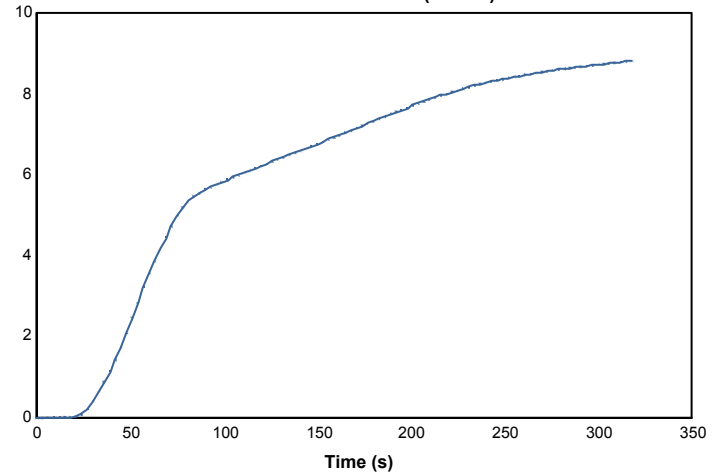
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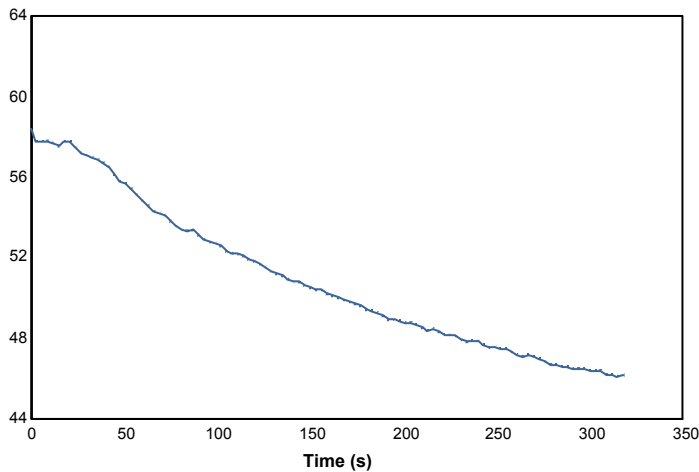
Mass loss rate (g/s)



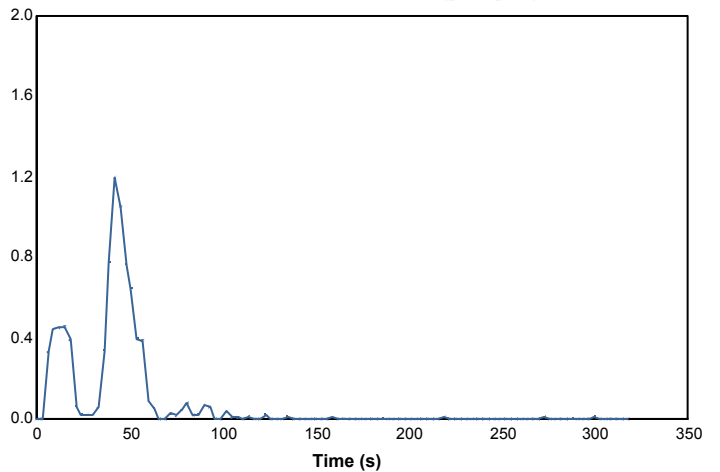
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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