

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 : Timberwood Panels Pty Ltd
76-106 National Blvd
Campbellfield VIC 3061

Test Number : 16-004836
Issue Date : 03/10/2016
Print Date : 4/10/2016

Sample Description Clients Ref : "Fire rated medium density fibreboard (FR MDF)"
Rigid panel
Colour : Brown and Black
Nominal Composition : Medium density fibreboard
Nominal Mass per Unit Area/Density : 770kg/m3

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

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	26.9	28.9	29.2	28.3	kW/m ²
Average Specific extinction area	73.8	18.8	15.0	35.9	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	24	24	24	24	L/sec
Time to sustained flaming	42	30	37	36	sec
Test duration	340	300	305	315	sec
Peak heat release after ignition	82.6	98.0	88.3	89.6	kW/m ²
Average heat at 60 s	67.6	73.3	70.1	70.3	kW/m ²
Average heat at 180 s	35.6	39.1	36.9	37.2	kW/m ²
Average heat at 300 s	26.6	28.9	29.2	28.2	kW/m ²
Total heat released	8.1	7.8	7.9	7.9	MJ/m ²
Average effective heat of combustion	2.5	3.0	2.9	2.8	MJ/kg

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Initial thickness	12.0	12.0	12.0	12.0	mm
Initial mass	99.4	95.8	95.3	96.8	g
Mass remaining	72.2	73.3	72.3	72.6	g
Mass percentage pyrolysed	27.3	23.4	24.1	25.0	%
Mass loss	27.2	22.5	23.0	24.2	g
Average rate of mass loss	10.7	9.7	9.9	10.1	g/m ² .s

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.

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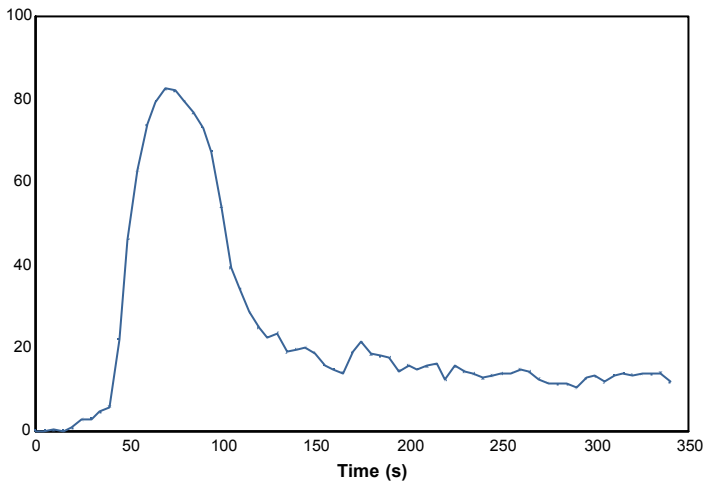
TEST REPORT

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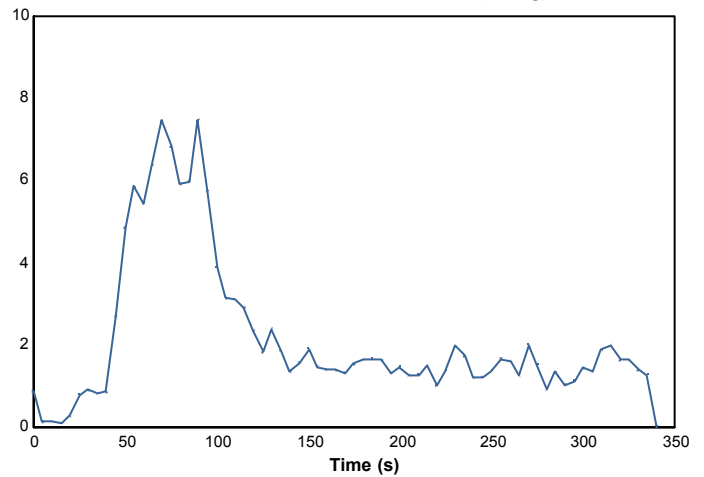
Test Number : 16-004836
Issue Date : 03/10/2016
Print Date : 4/10/2016

Specimen : 1

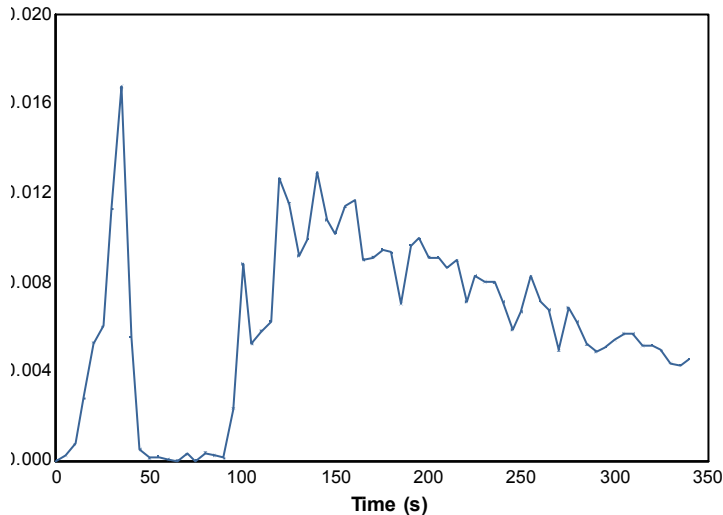
Heat release rate (kW/m²)



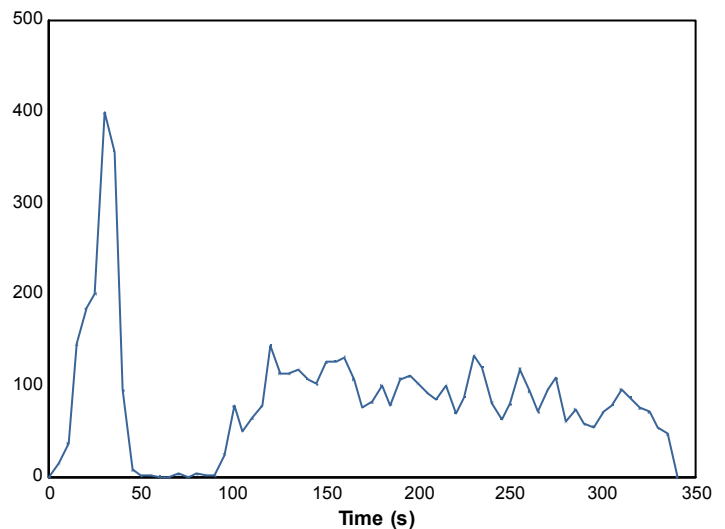
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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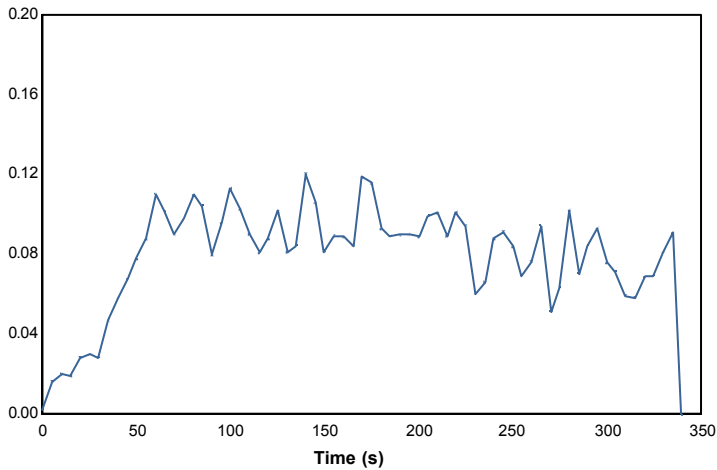
Phone (03) 9371 2400 Fax (03) 9371 2499

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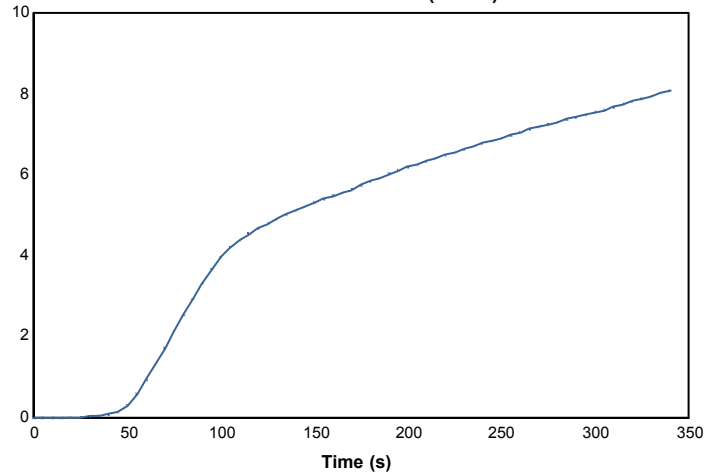
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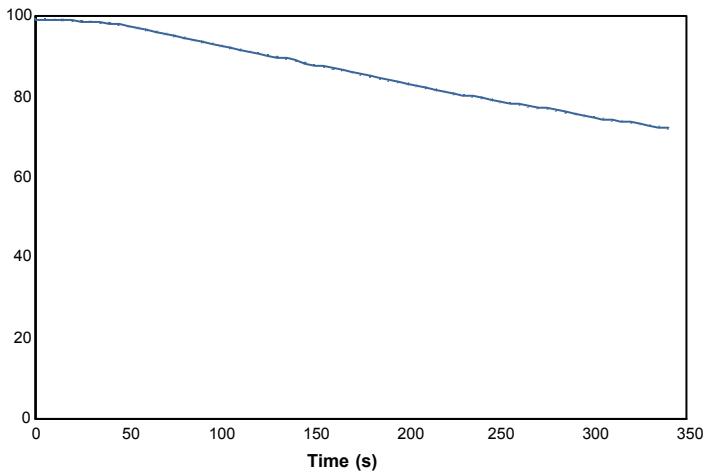
Mass loss rate (g/s)



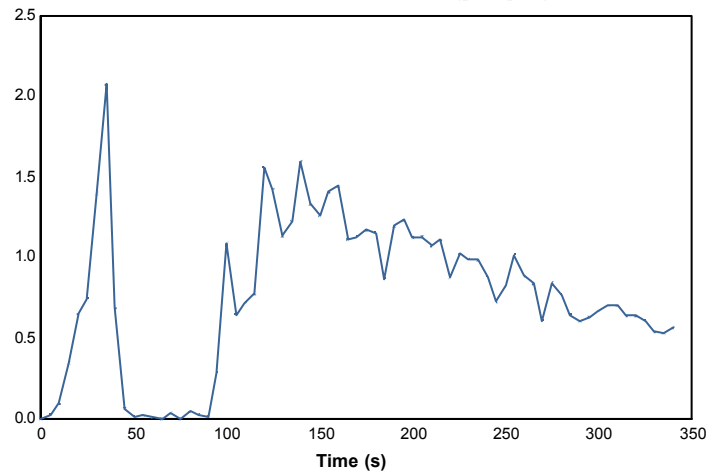
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s/m²)



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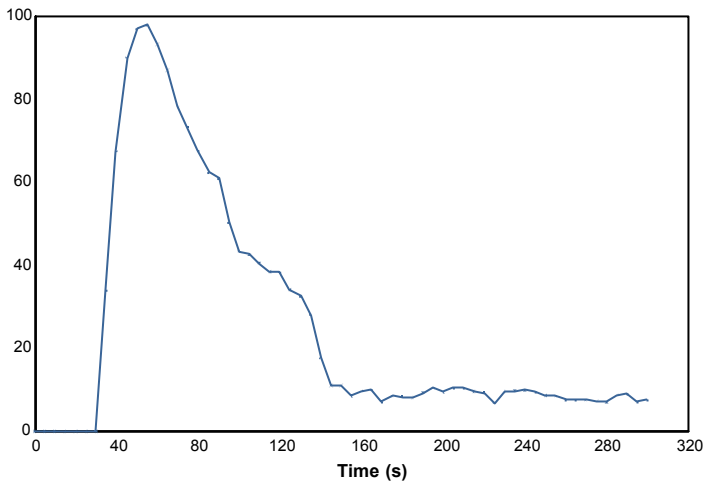
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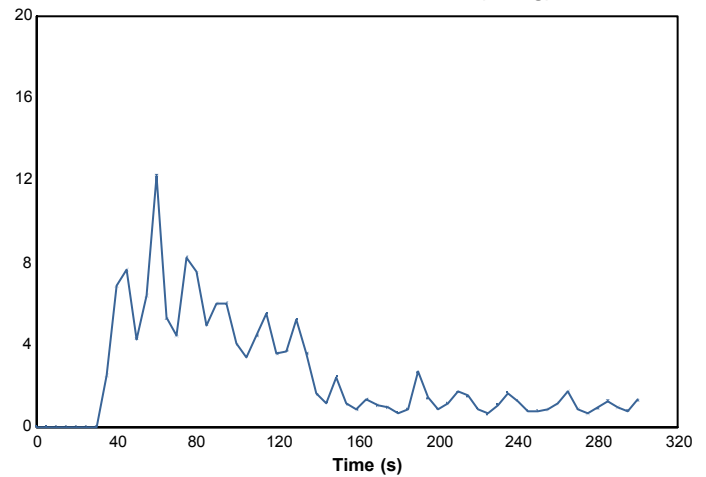
Test Number : 16-004836
Issue Date : 03/10/2016
Print Date : 4/10/2016

Specimen : 2

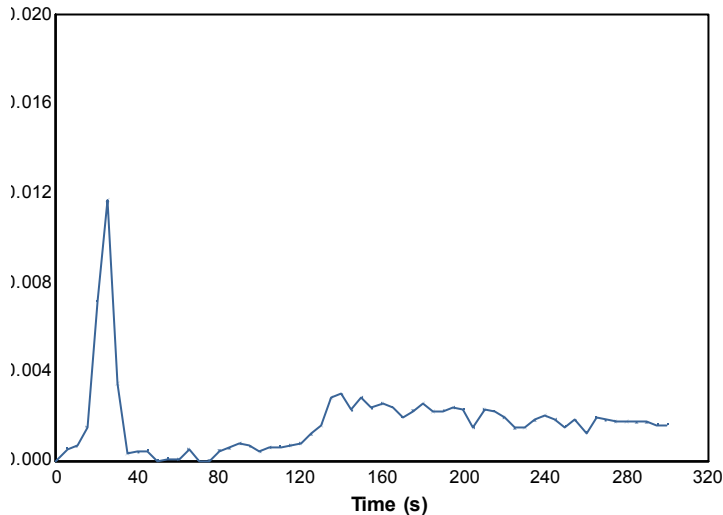
Heat release rate (kW/m²)



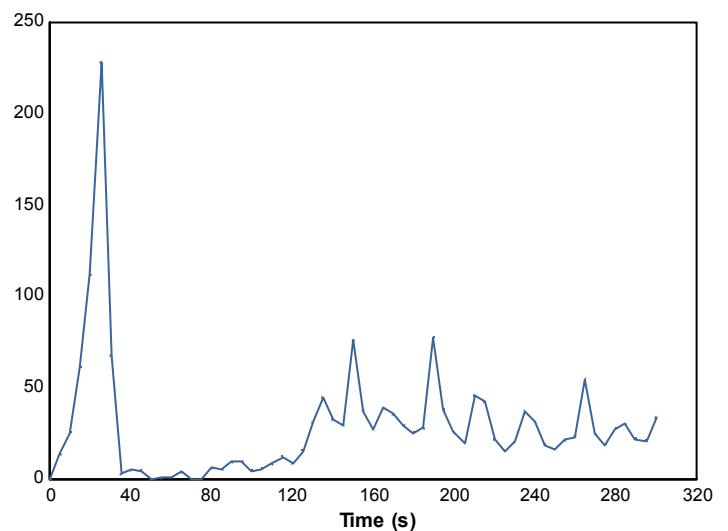
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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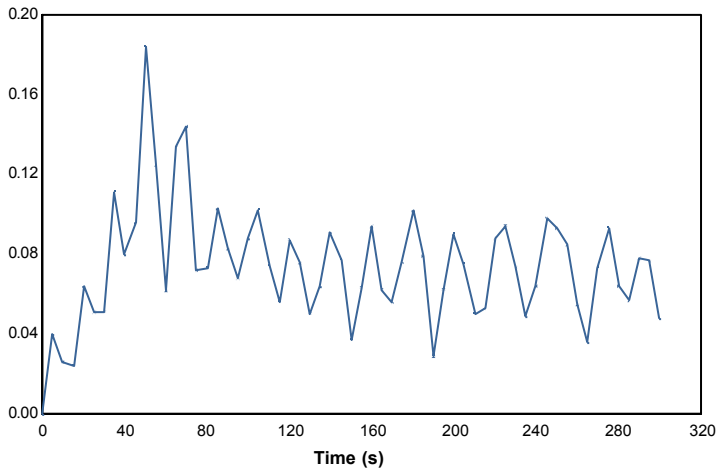
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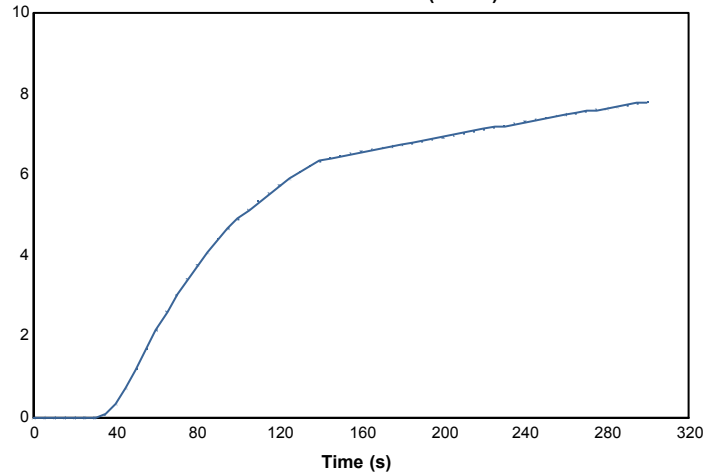
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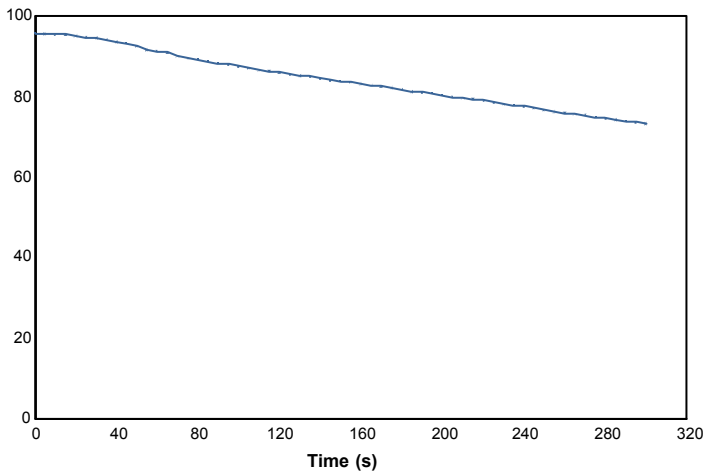
Mass loss rate (g/s)



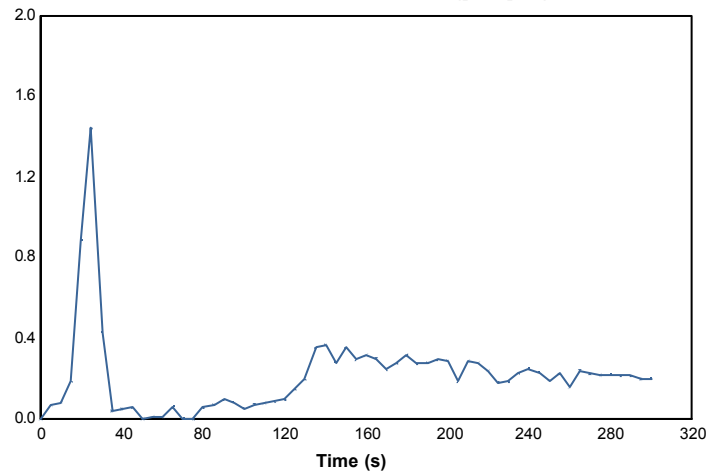
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s/m²)



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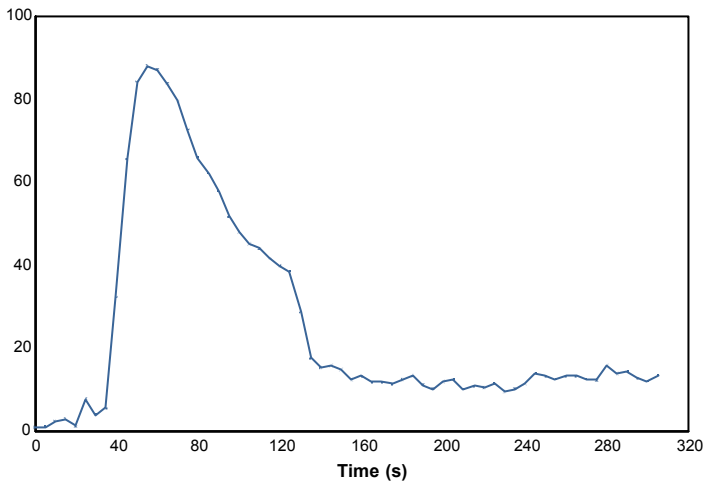
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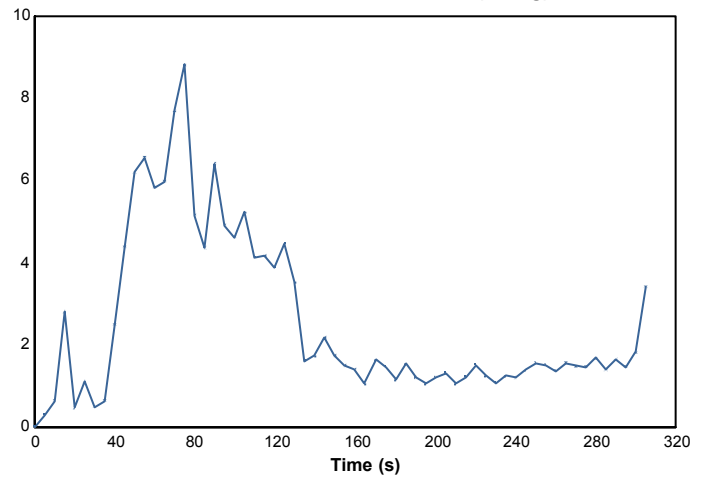
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Specimen : 3

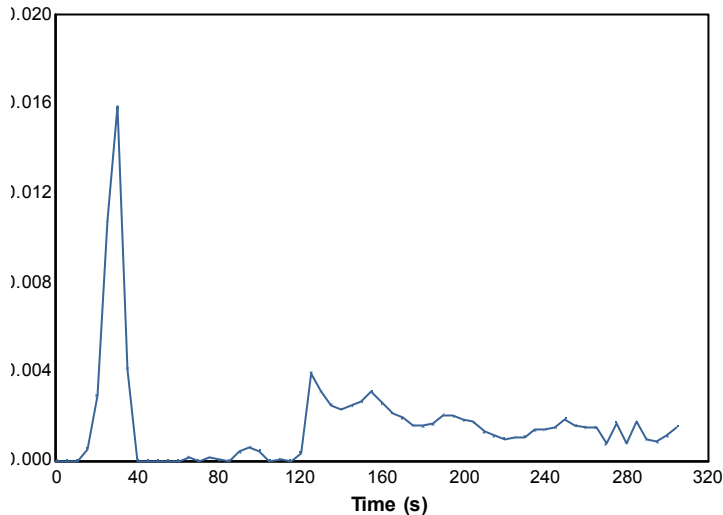
Heat release rate (kW/m²)



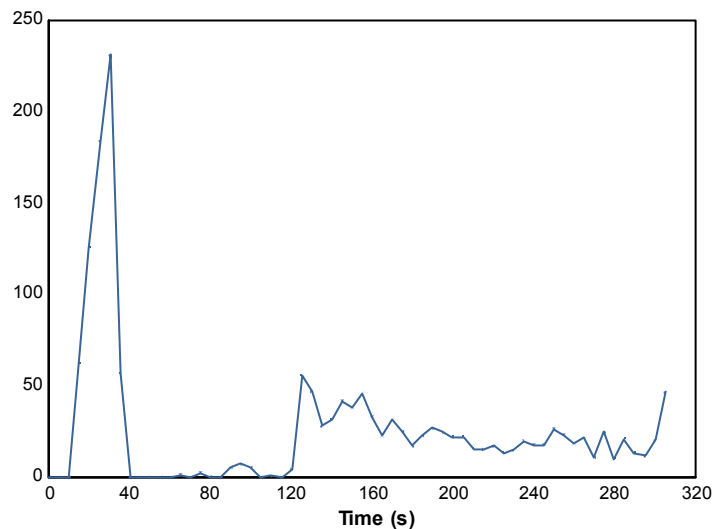
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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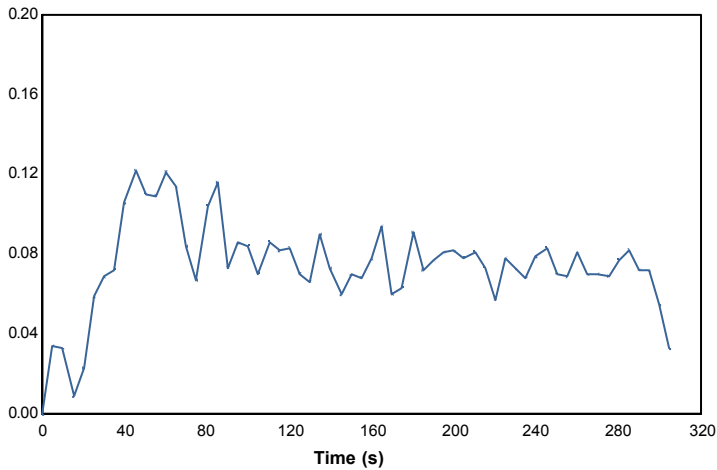
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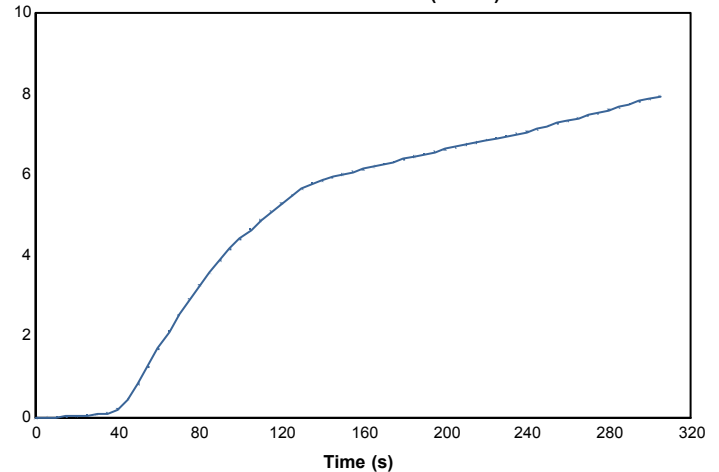
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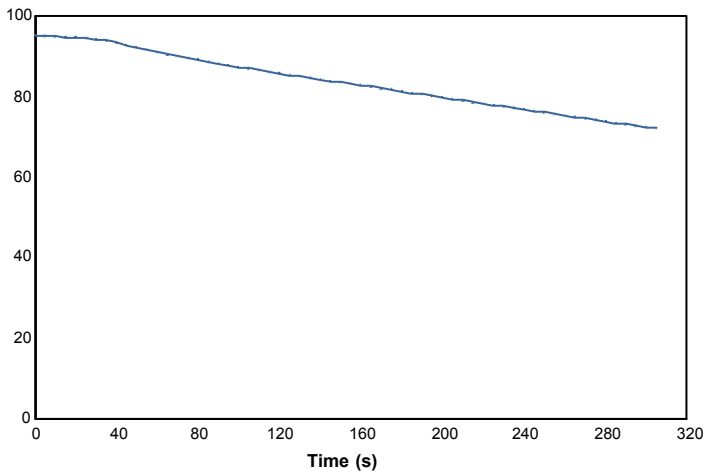
Mass loss rate (g/s)



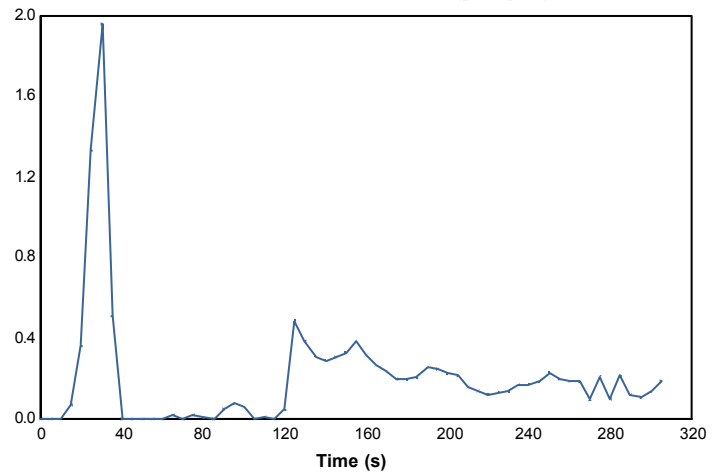
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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