

# 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 :** Wilsonart Australia  
Unit 3B  
13 - 15 Forrester Street  
Kingsgrove NSW 2208

**Test Number :** 16-004057  
**Issue Date :** 17/08/2016  
**Print Date :** 18/08/2016

**Sample Description** Clients Ref : "Arborite Laminate"  
Textured high pressure laminate  
Colour : Black  
End Use : Walls, furniture, Doors, Bench tops  
Nominal Composition : High pressure laminate (HPL)  
Nominal Thickness : 1mm

### 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	52.1	54.9	54.3	53.8	kW/m <sup>2</sup>
Average Specific extinction area	22.0	25.6	21.5	23.0	m <sup>2</sup> /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 <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	31	34	26	30	sec
Test duration	344	336	332	337	sec
Peak heat release after ignition	178.3	209.1	192.9	193.4	kW/m <sup>2</sup>
Average heat at 60 s	127.0	148.4	136.8	137.4	kW/m <sup>2</sup>
Average heat at 180 s	73.7	75.6	76.7	75.3	kW/m <sup>2</sup>
Average heat at 300 s	53.3	54.9	54.7	54.3	kW/m <sup>2</sup>
Total heat released	16.3	16.5	16.5	16.4	MJ/m <sup>2</sup>
Average effective heat of combustion	7.8	8.3	8.4	8.2	MJ/kg

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APPROVED SIGNATORY

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

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Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	104.5	103.9	104.7	104.4	g
Mass remaining	86.8	86.8	88.1	87.2	g
Mass percentage pyrolysed	16.9	16.5	15.9	16.4	%
Mass loss	17.7	17.1	16.6	17.1	g
Average rate of mass loss	6.7	6.6	6.4	6.6	g/m <sup>2</sup> .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 reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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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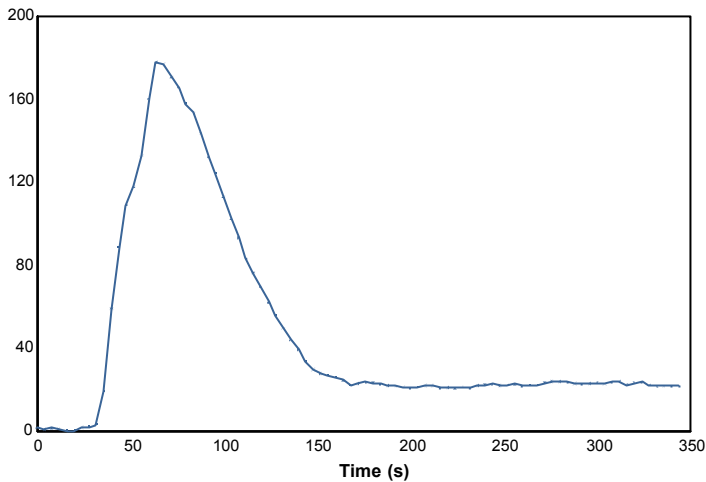
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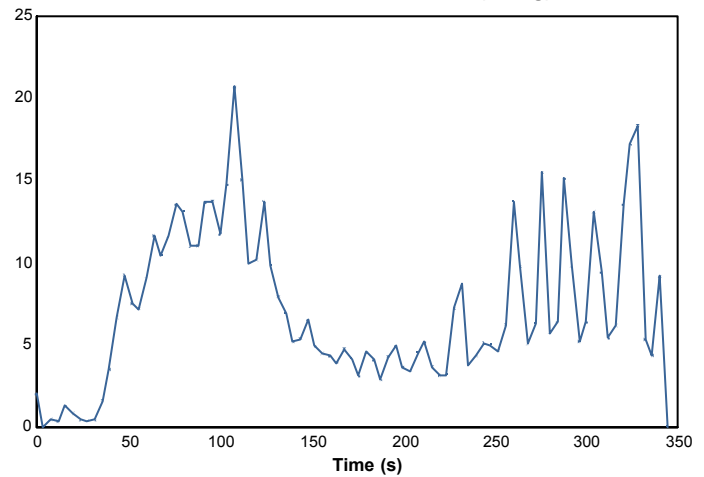
**Test Number :** 16-004057  
**Issue Date :** 17/08/2016  
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**Specimen :** 1

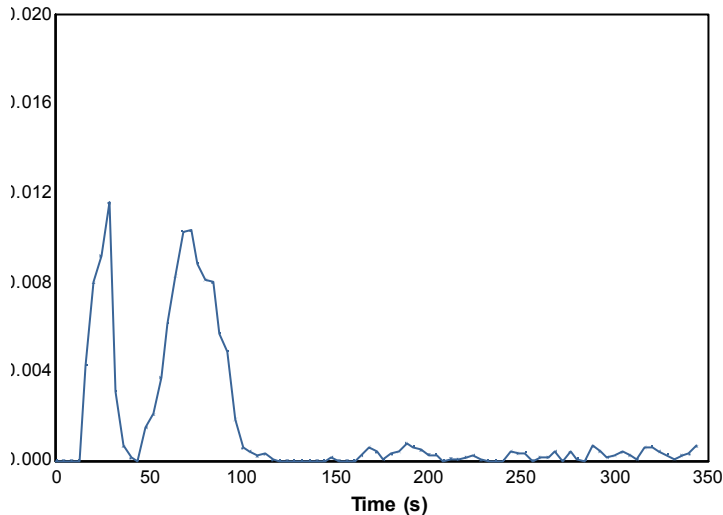
Heat release rate (kW/m<sup>2</sup>)



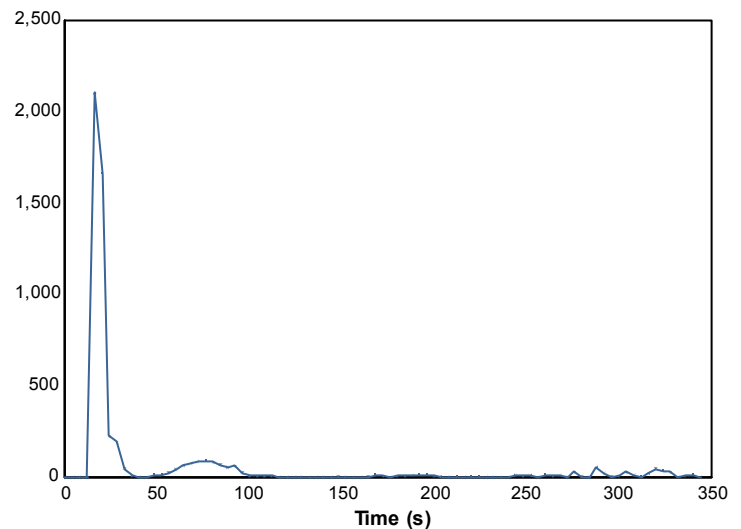
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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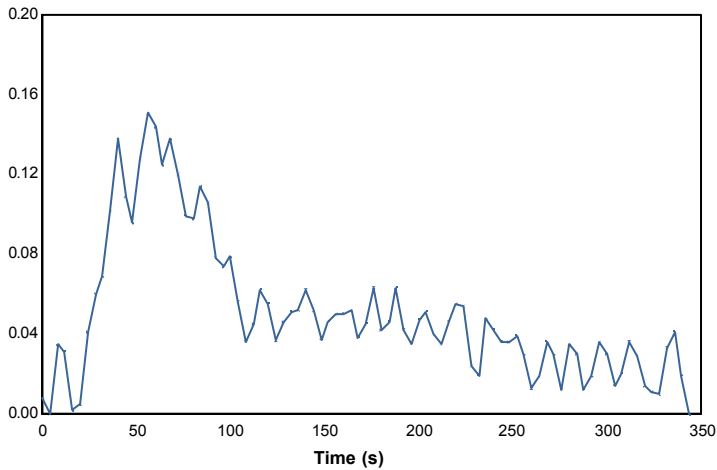
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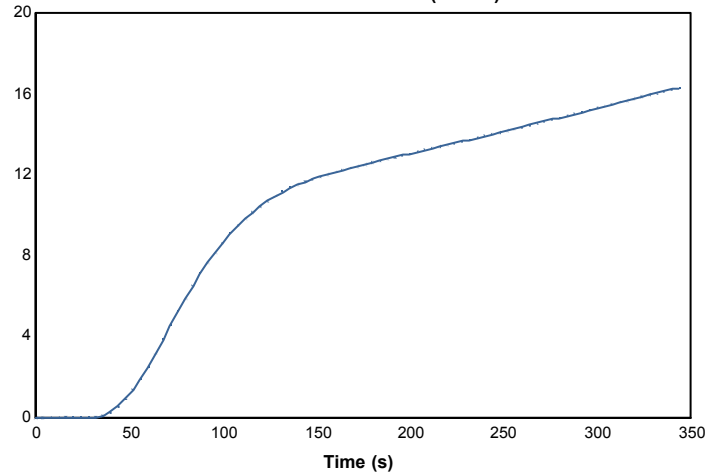
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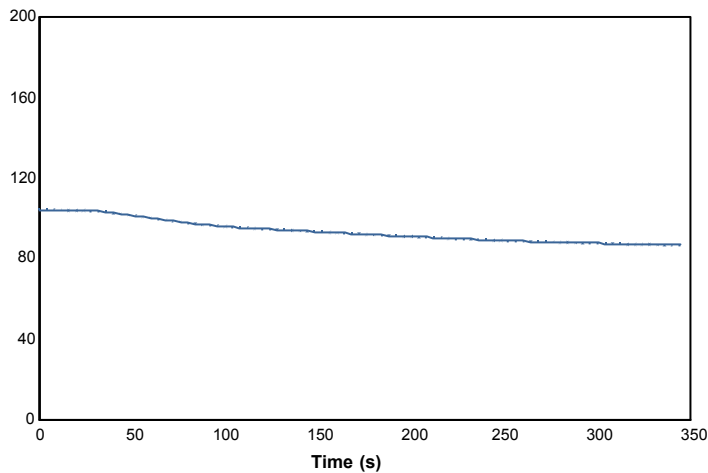
Mass loss rate (g/s)



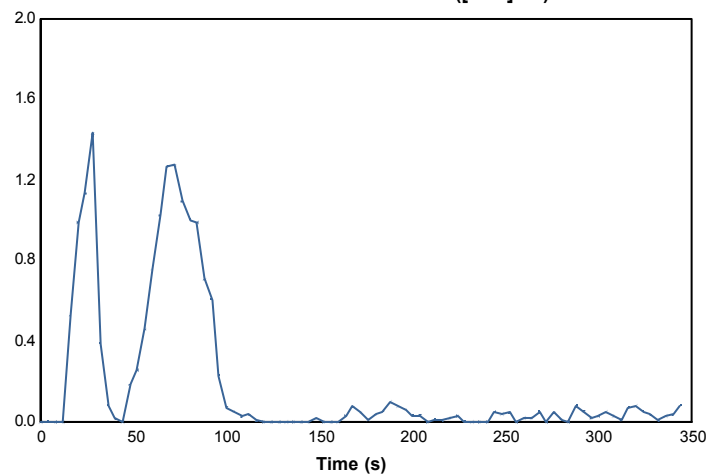
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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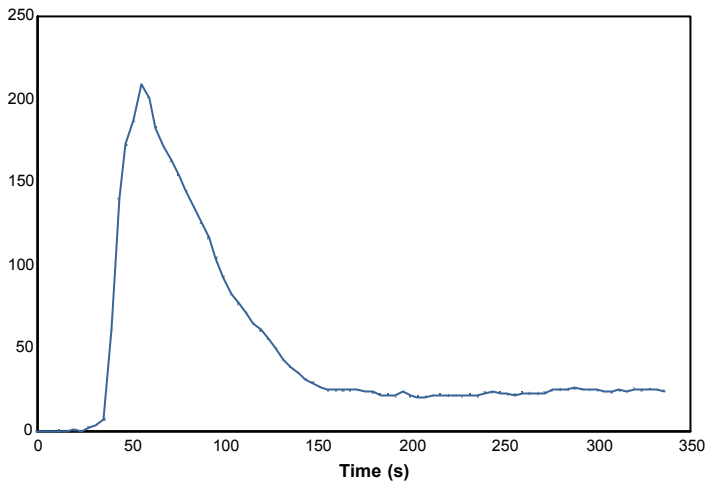
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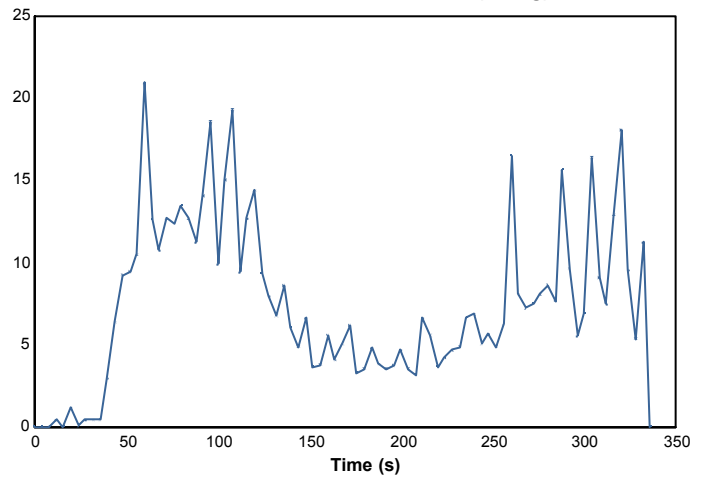
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**Specimen :** 2

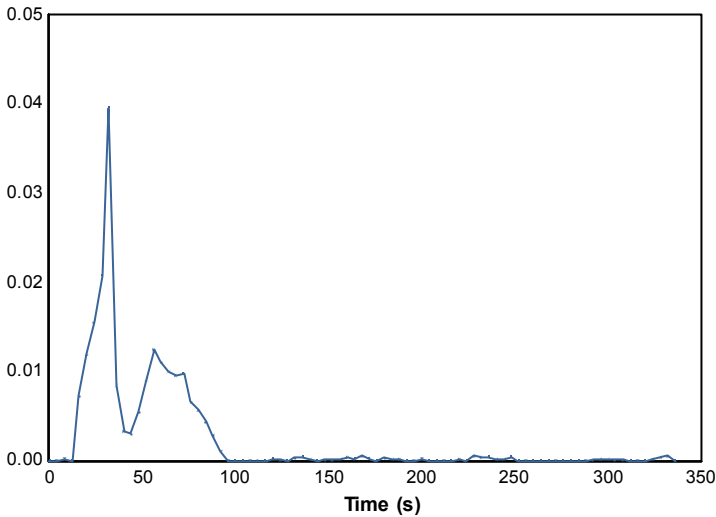
Heat release rate (kW/m<sup>2</sup>)



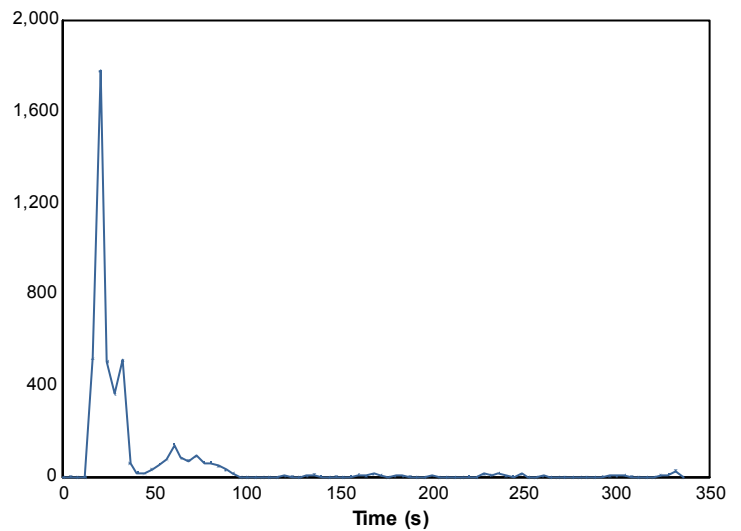
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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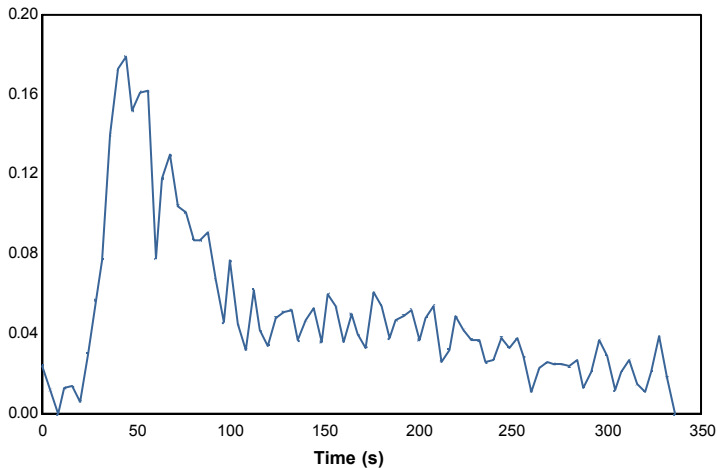
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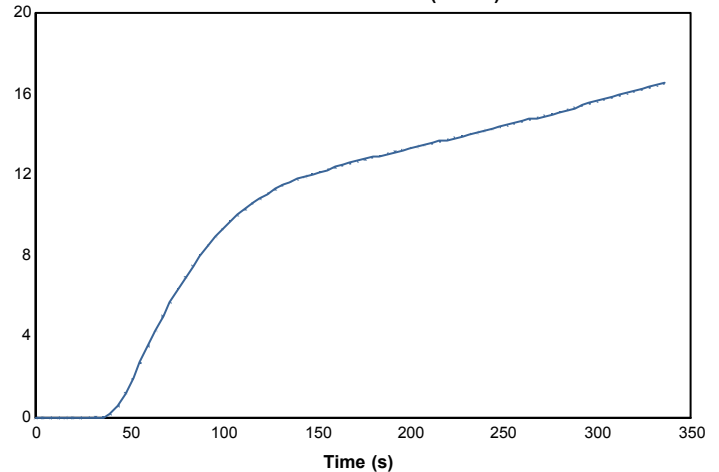
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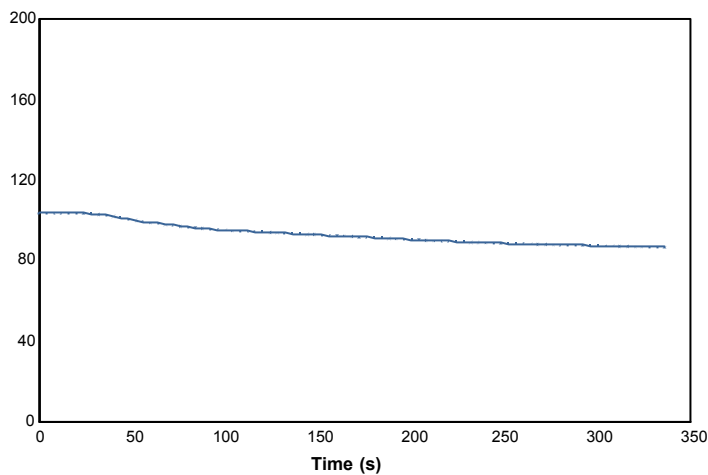
Mass loss rate (g/s)



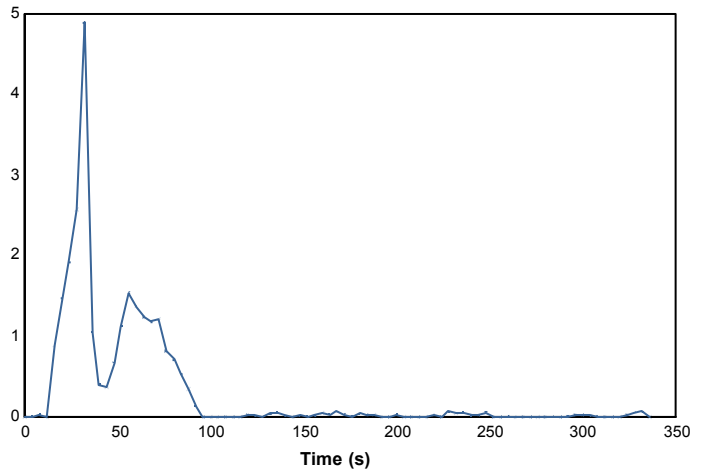
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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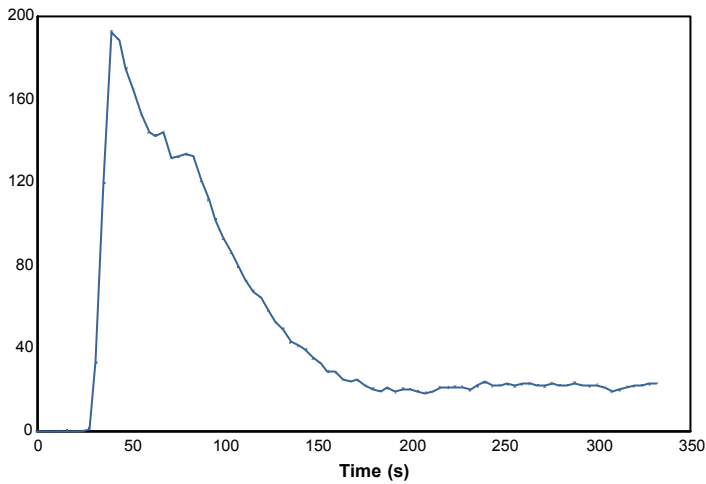
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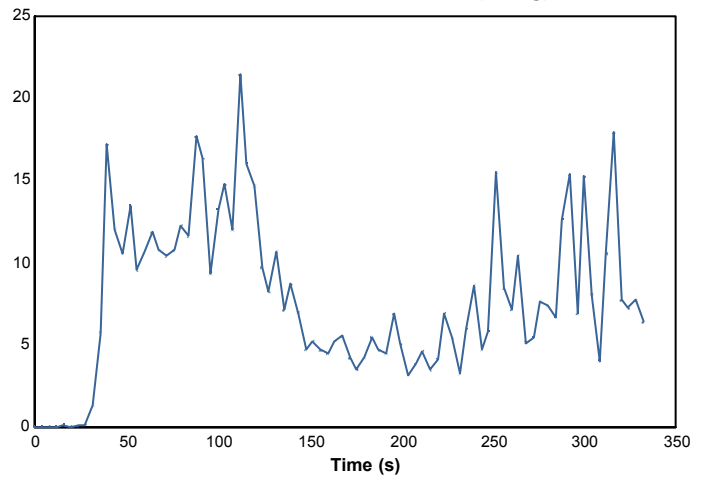
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**Specimen :** 3

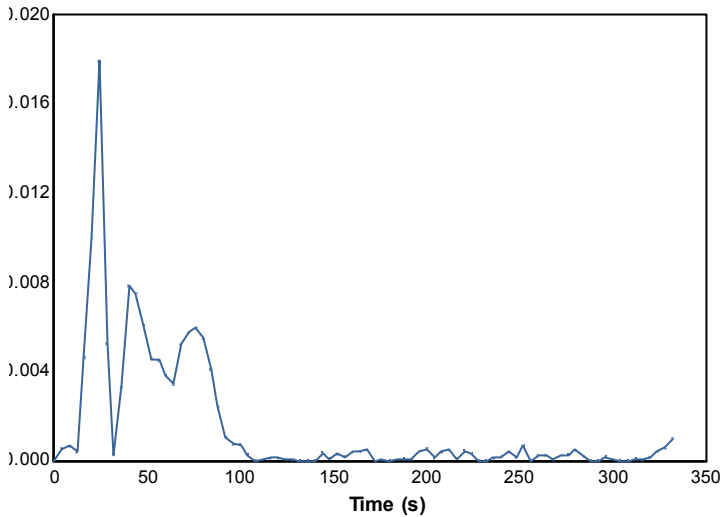
Heat release rate (kW/m<sup>2</sup>)



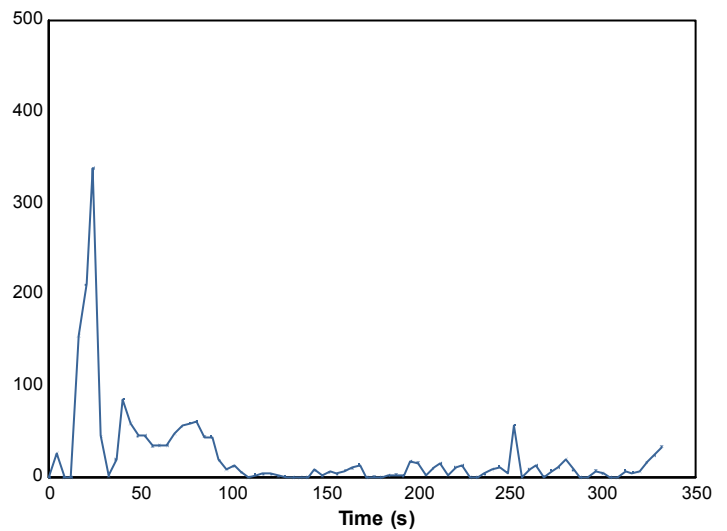
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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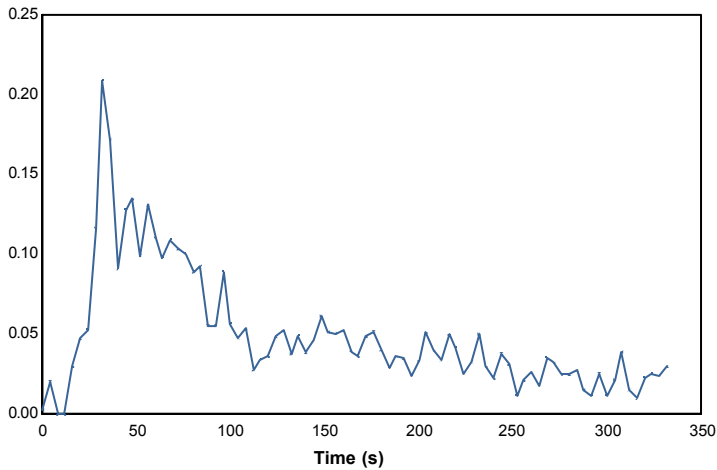
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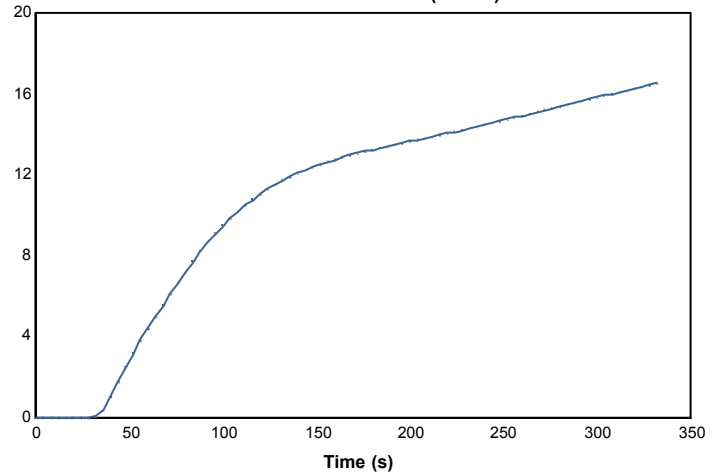
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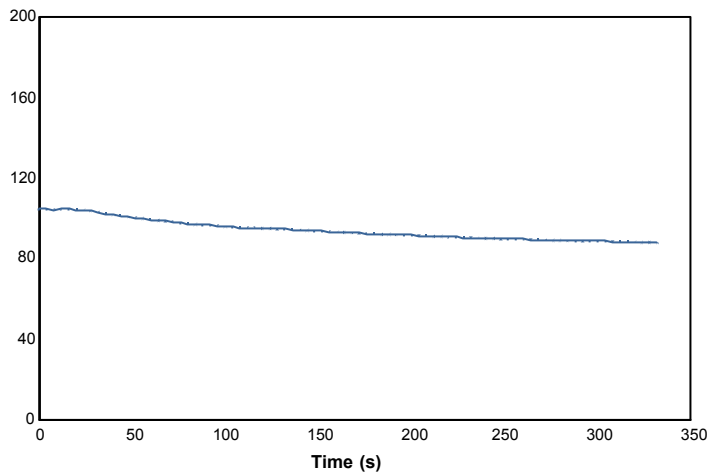
Mass loss rate (g/s)



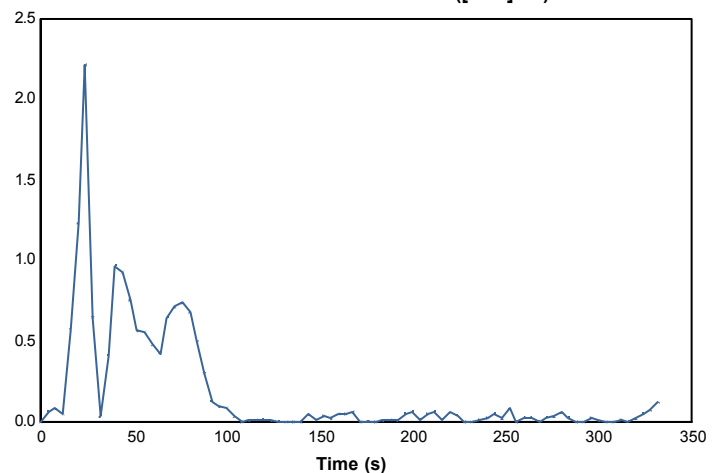
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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