

# 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

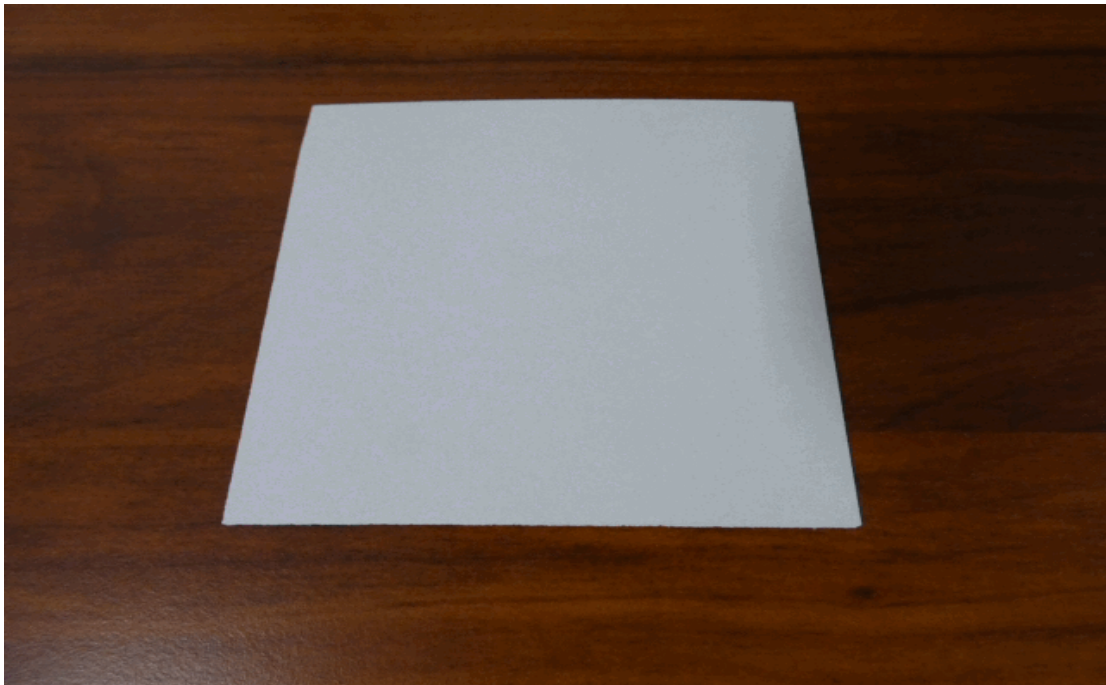
## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 23-001529  
**Issue Date :** 26/04/2023  
**Print Date :** 24/05/2023  
**Order Number :** 3455941

### Sample Description

Clients Ref : "30890 Chemical Resistant Laminate"  
Laminate panel  
Colour : White  
Nominal Composition : High pressure laminate incorporating cellulose fibres and  
thermosetting resins  
Nominal Mass per Unit Area/Density : 1250kg/m<sup>3</sup>  
Nominal Thickness : 0.8mm



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Fiona McDonald

APPROVED SIGNATORY



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

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### AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 26-04-2023  
Operator AWTA Test Operator 9  
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	37.8	35.2	39.0	37.3	kW/m <sup>2</sup>
Average Specific extinction area	39.7	51.3	39.0	43.3	m <sup>2</sup> /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	30	24	24	26	sec
Test duration	261	257	242	253	sec
Peak heat release after ignition	90.1	95.2	94.0	93.1	kW/m <sup>2</sup>
Average heat at 60 s	53.9	66.9	57.6	59.4	kW/m <sup>2</sup>
Average heat at 180 s	42.4	41.4	43.7	42.5	kW/m <sup>2</sup>
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>
Total heat released	8.8	8.2	8.5	8.5	MJ/m <sup>2</sup>
Average effective heat of combustion	8.2	7.4	7.6	7.7	MJ/kg
Initial thickness	6.8	6.8	6.8	6.8	mm
Initial mass	97.8	99.7	100.4	99.3	g
Mass remaining	88.8	89.8	91.4	90.0	g
Mass percentage pyrolysed	9.2	9.9	8.9	9.3	%

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Mass loss	1.1	1.2	1.1	1.1	kg/m <sup>2</sup>
Average rate of mass loss	4.8	4.5	5.1	4.8	g/m <sup>2</sup> .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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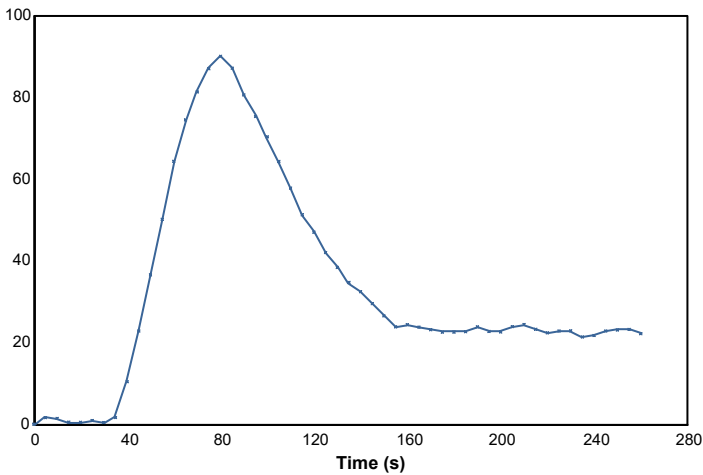
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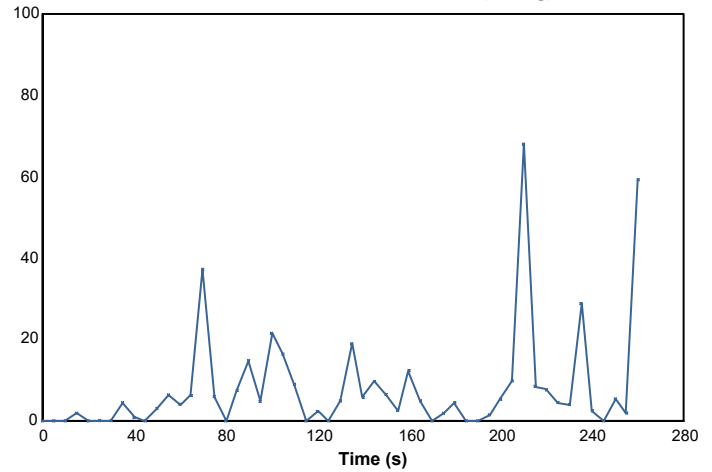
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**Order Number :** 3455941

**Specimen :** 1

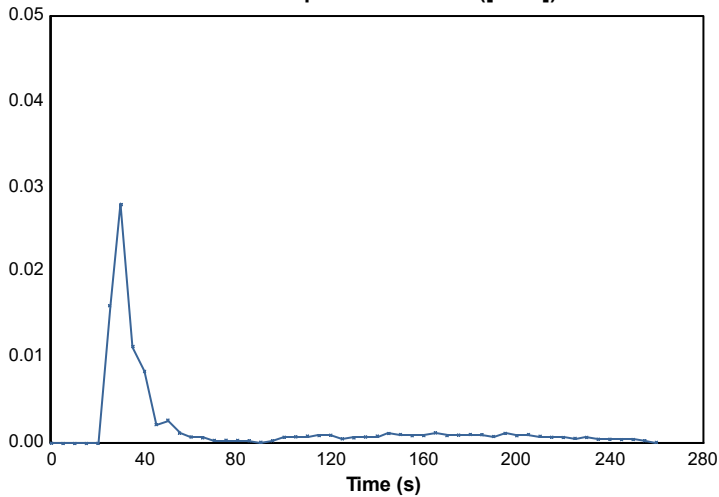
**Heat release rate (kW/m<sup>2</sup>)**



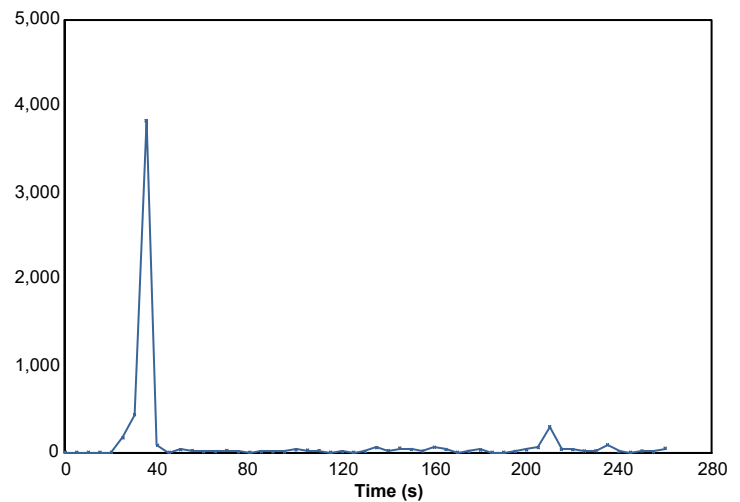
**Effective heat of combustion (MJ/kg)**



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



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



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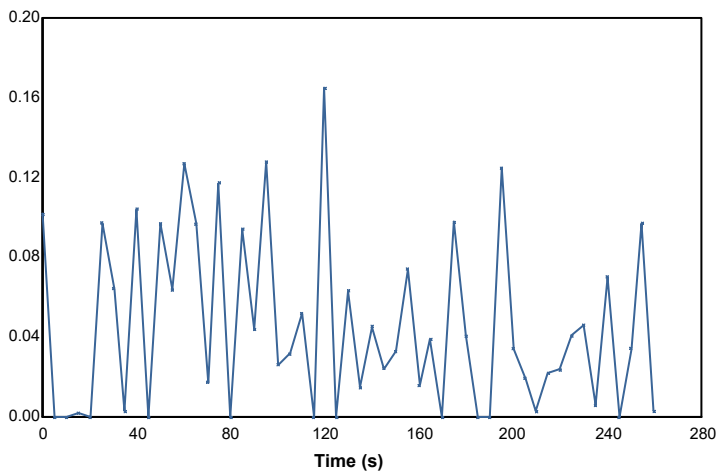
Phone (03) 9371 2400

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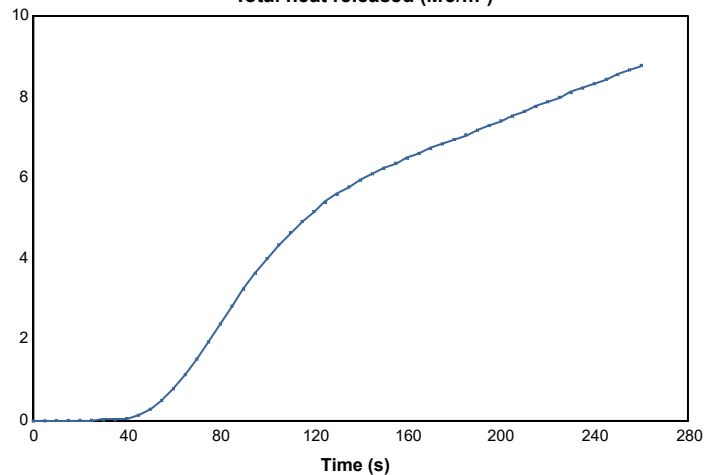
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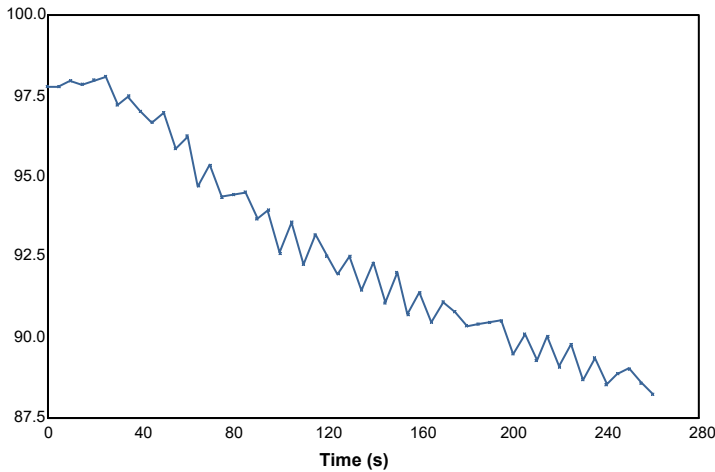
**Mass loss rate (g/s)**



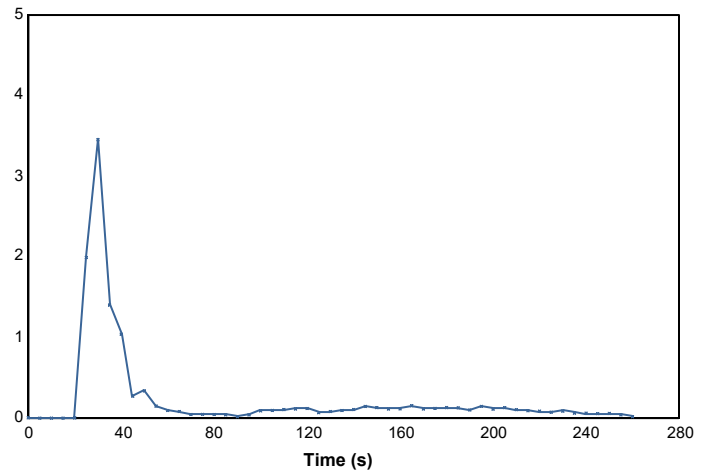
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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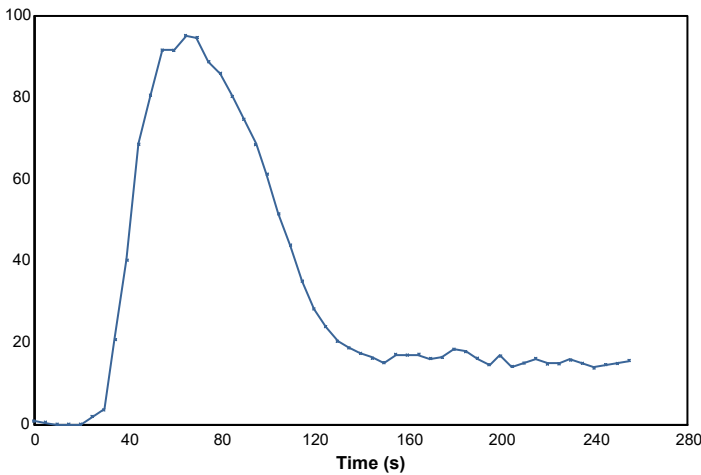
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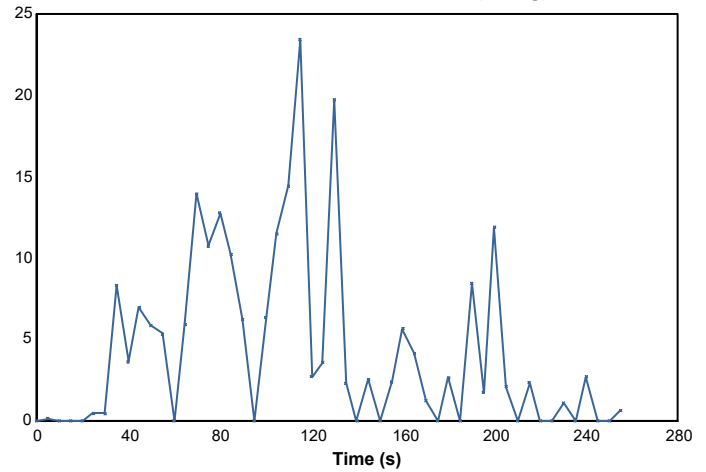
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**Specimen :** 2

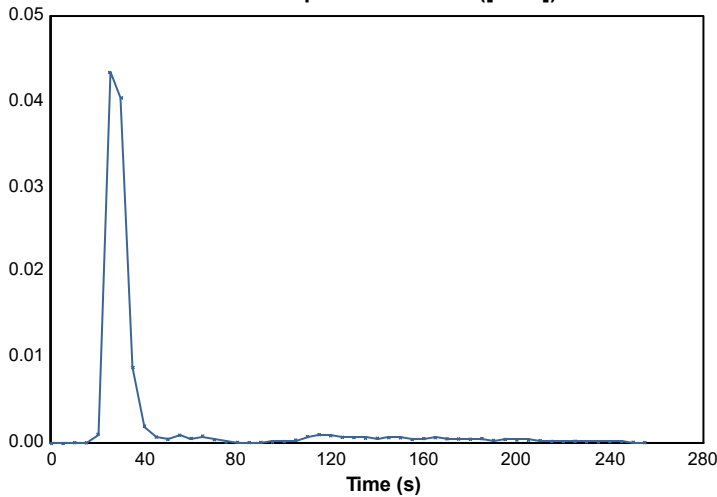
**Heat release rate (kW/m<sup>2</sup>)**



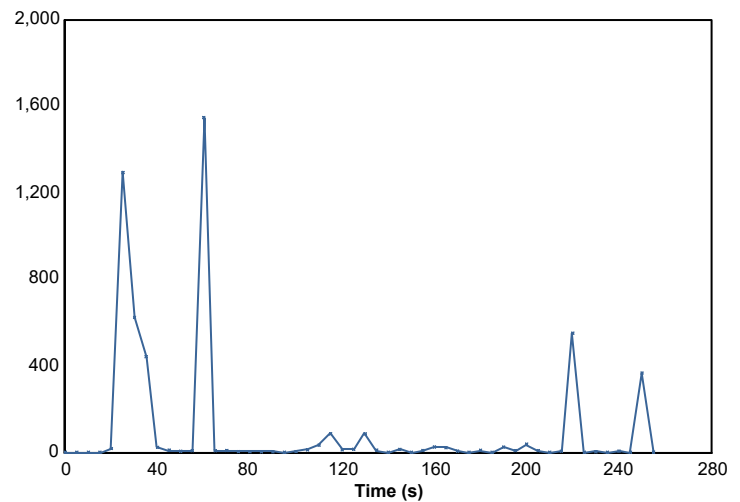
**Effective heat of combustion (MJ/kg)**



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



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



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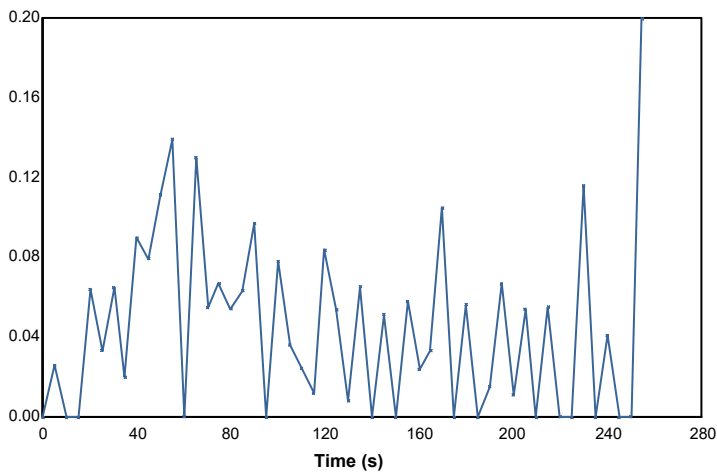
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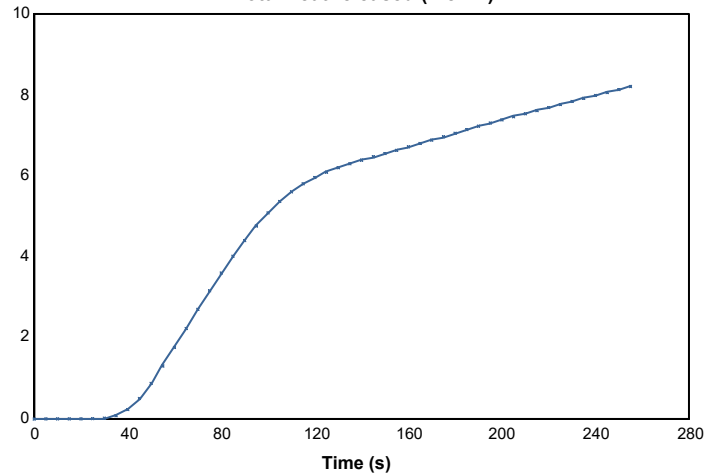
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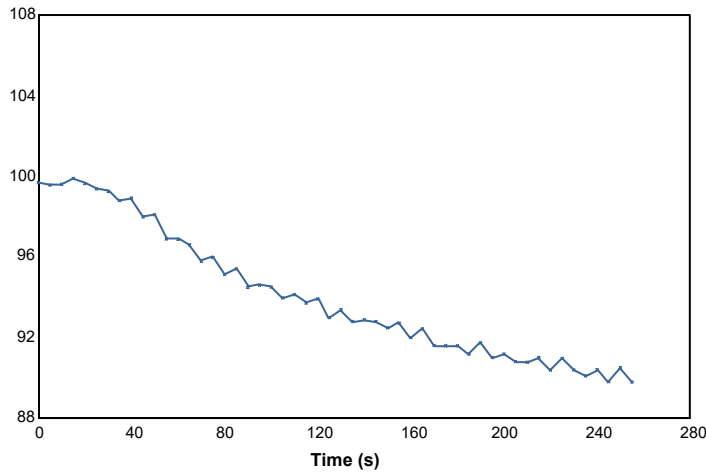
Mass loss rate (g/s)



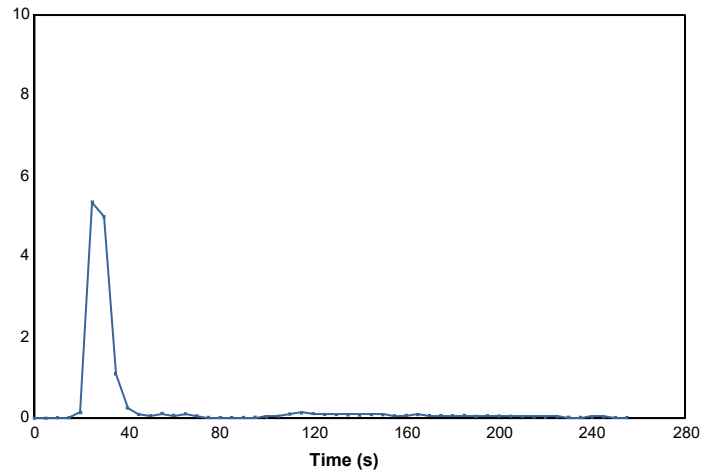
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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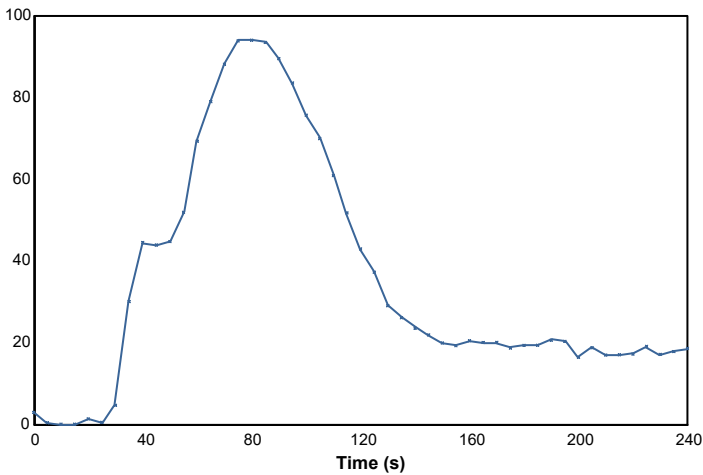
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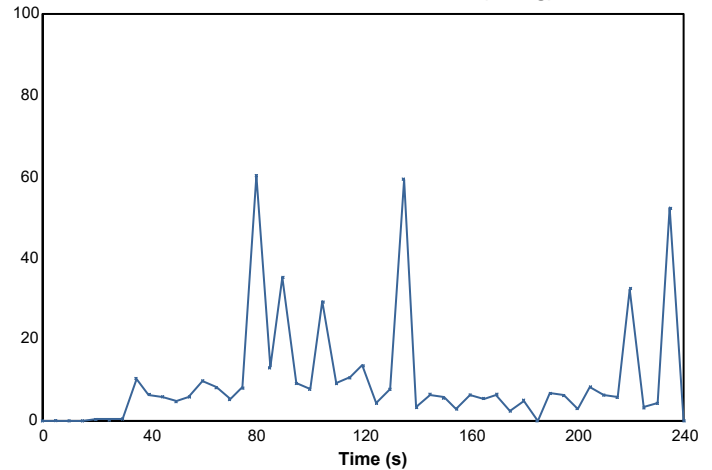
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**Specimen :** 3

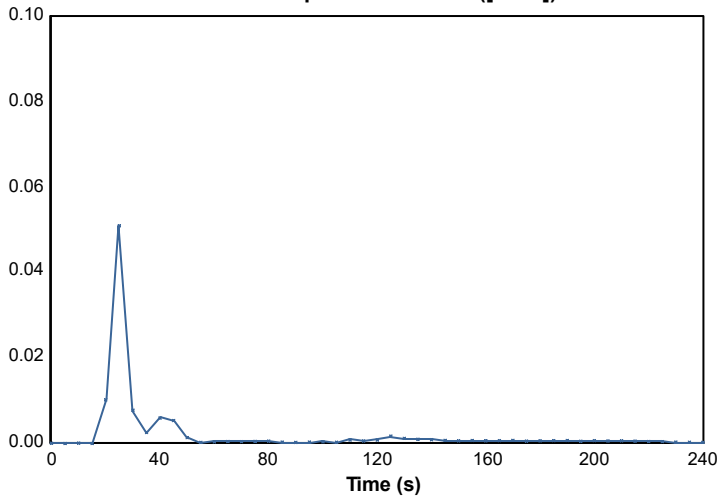
**Heat release rate (kW/m<sup>2</sup>)**



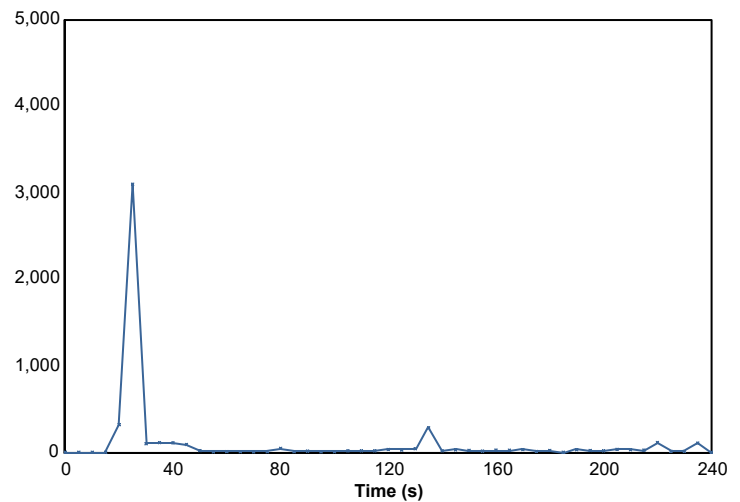
**Effective heat of combustion (MJ/kg)**



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



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



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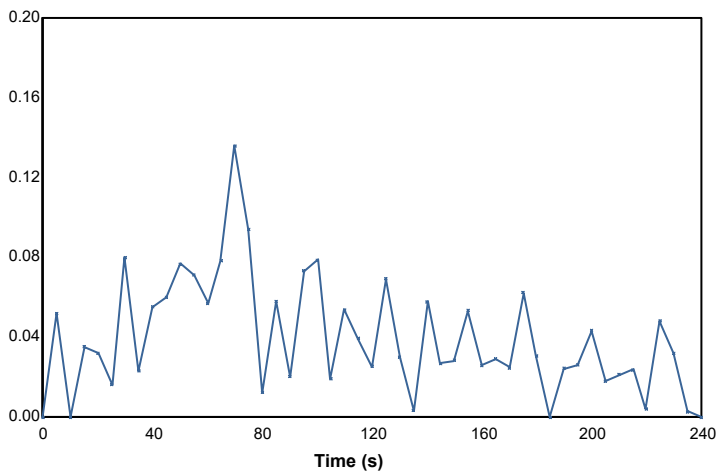
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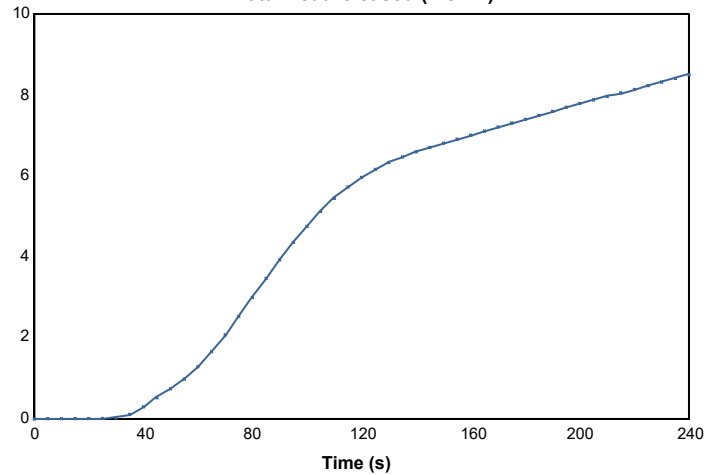
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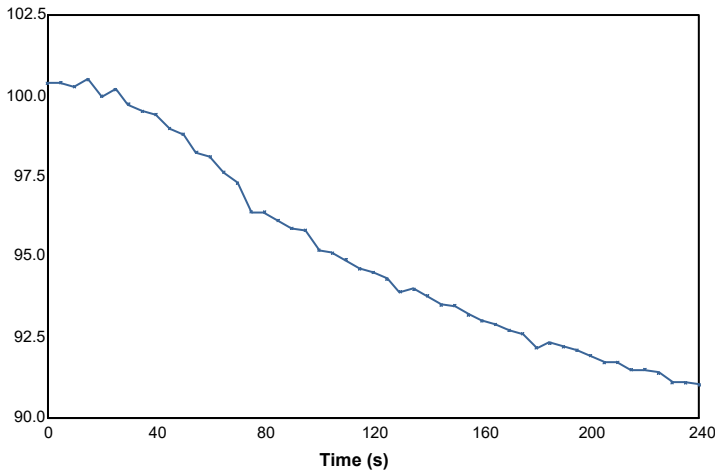
**Mass loss rate (g/s)**



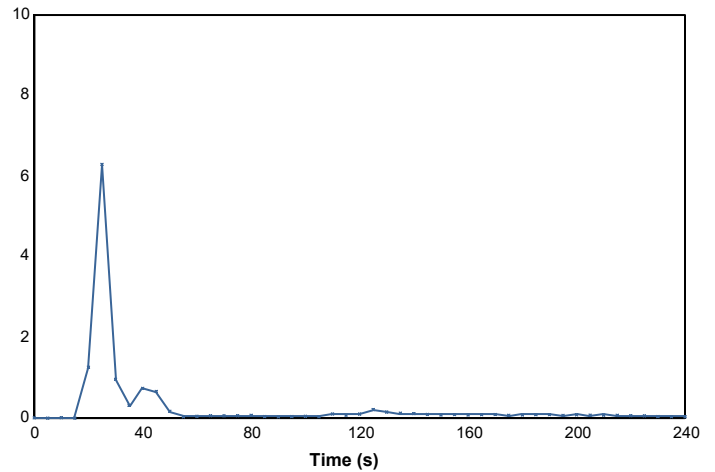
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s)/m²)**



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