

# 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 :** Market Timbers Aust. Pty Ltd  
471 Somerville Road  
Brooklyn VIC 3012

**Test Number :** 18-001014  
**Issue Date :** 28/02/2018  
**Print Date :** 14/06/2018

**Sample Description** Clients Ref : "Cork"  
Cork Sheets  
End Use : Wall & Ceiling Lining  
Nominal Composition : Cork  
Nominal Mass per Unit Area/Density : 1.1kg/m<sup>2</sup>  
Nominal Thickness : Approx: 3mm

**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	43.9	44.1	42.6	43.6	kW/m <sup>2</sup>
Average Specific extinction area	92.0	75.7	87.6	85.1	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	3	4	2	3	sec
Test duration	424	448	456	443	sec
Peak heat release after ignition	128.0	129.6	122.9	126.8	kW/m <sup>2</sup>
Average heat at 60 s	108.5	107.9	107.7	108.0	kW/m <sup>2</sup>
Average heat at 180 s	74.3	77.1	73.9	75.1	kW/m <sup>2</sup>
Average heat at 300 s	52.7	54.7	53.2	53.5	kW/m <sup>2</sup>
Total heat released	18.5	19.6	19.3	19.1	MJ/m <sup>2</sup>
Average effective heat of combustion	12.0	10.7	12.1	11.6	MJ/kg

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Page 1 of 8

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Initial thickness	9.0	9.0	9.0	9.0	mm
Initial mass	97.7	100.3	99.4	99.1	g
Mass remaining	85.2	85.5	86.5	85.7	g
Mass percentage pyrolysed	12.8	14.7	12.9	13.5	%
Mass loss	12.5	14.8	12.9	13.4	g
Average rate of mass loss	3.7	4.1	3.5	3.8	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 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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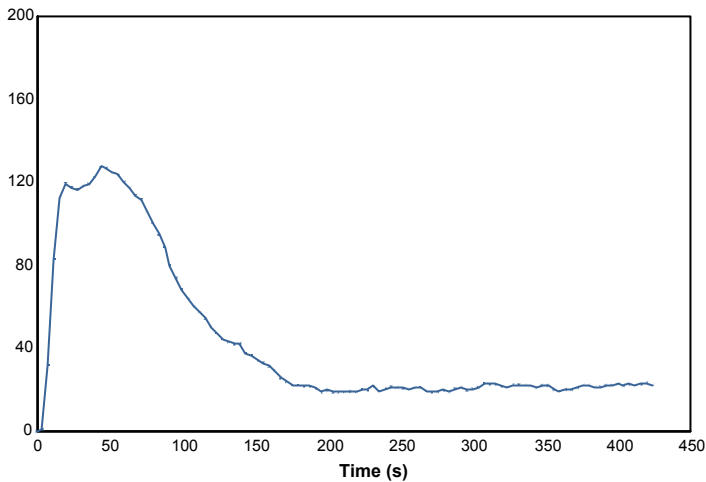
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**Client :** Market Timbers Aust. Pty Ltd  
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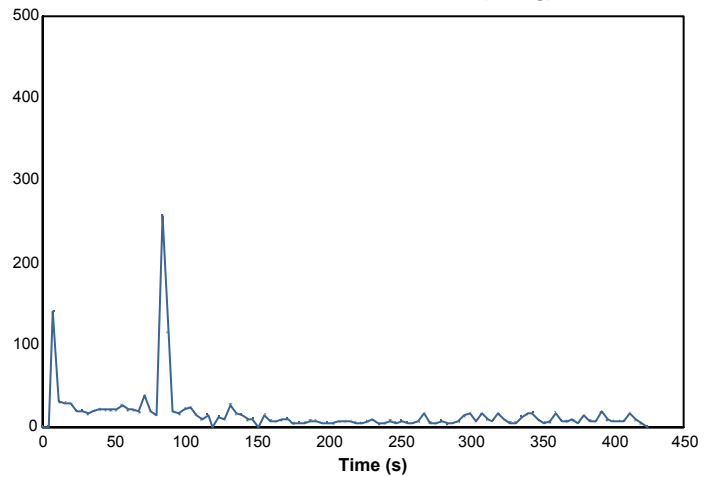
**Test Number :** 18-001014  
**Issue Date :** 28/02/2018  
**Print Date :** 14/06/2018

**Specimen :** 1

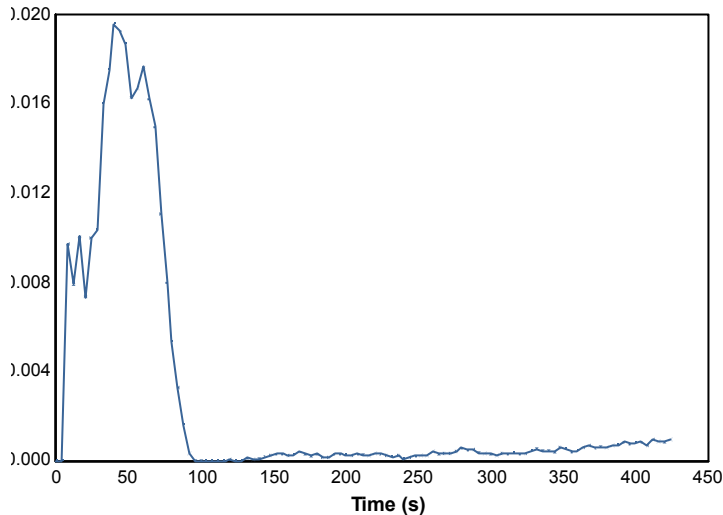
**Heat release rate (kW/m<sup>2</sup>)**



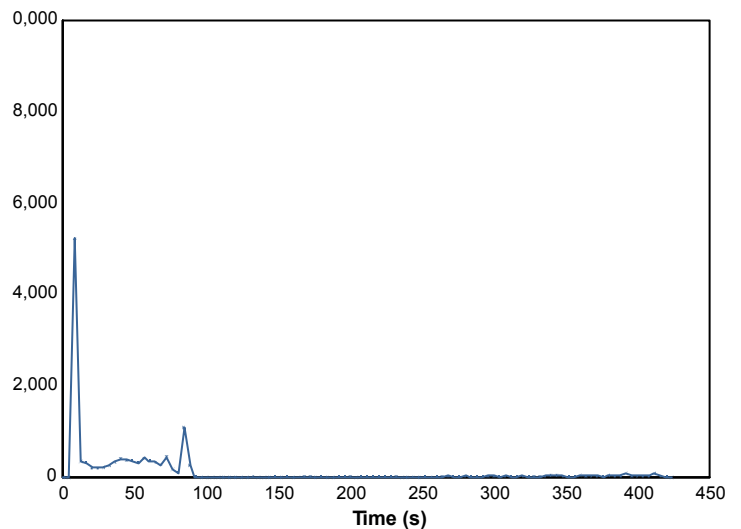
**Effective heat of combustion (MJ/kg)**



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



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



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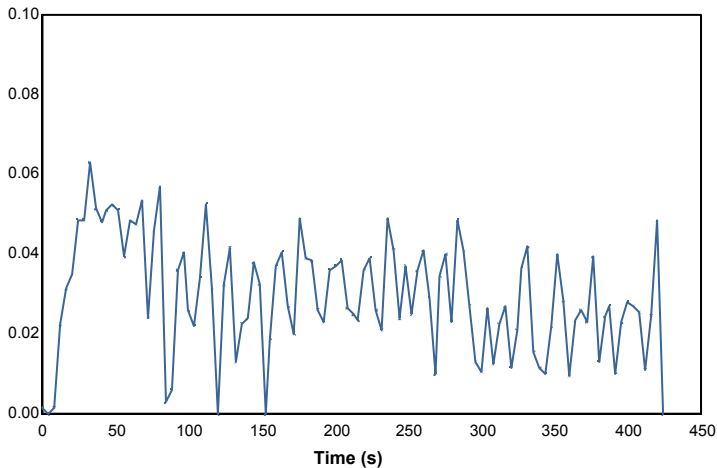
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## TEST REPORT

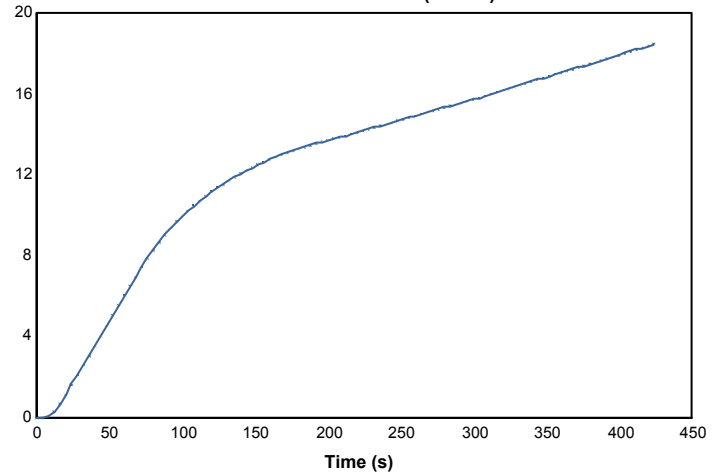
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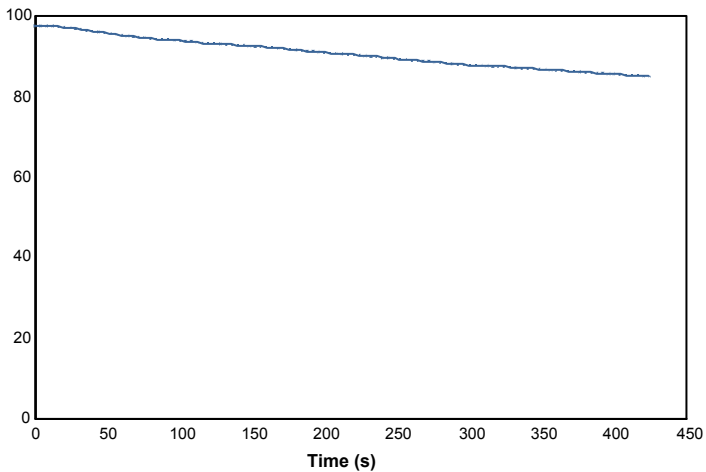
Mass loss rate (g/s)



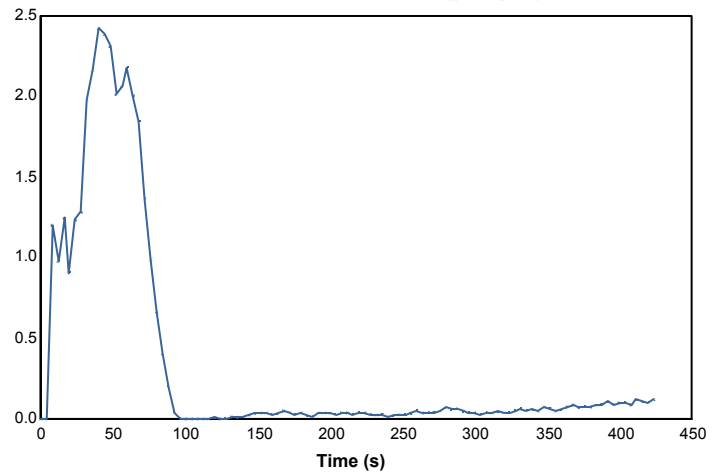
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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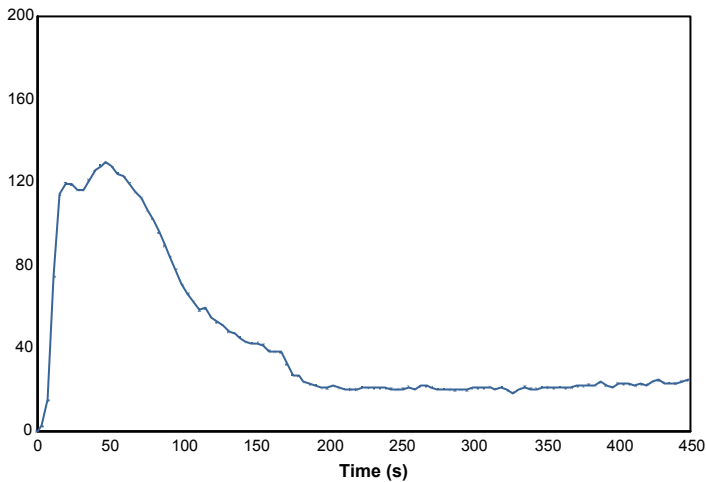
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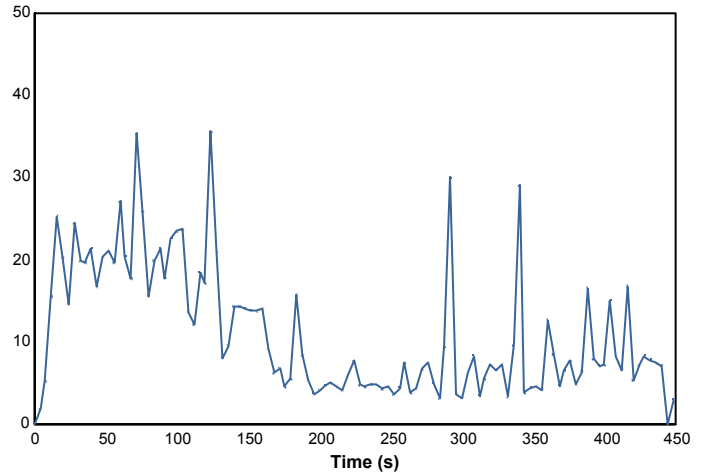
**Test Number :** 18-001014  
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**Specimen :** 2

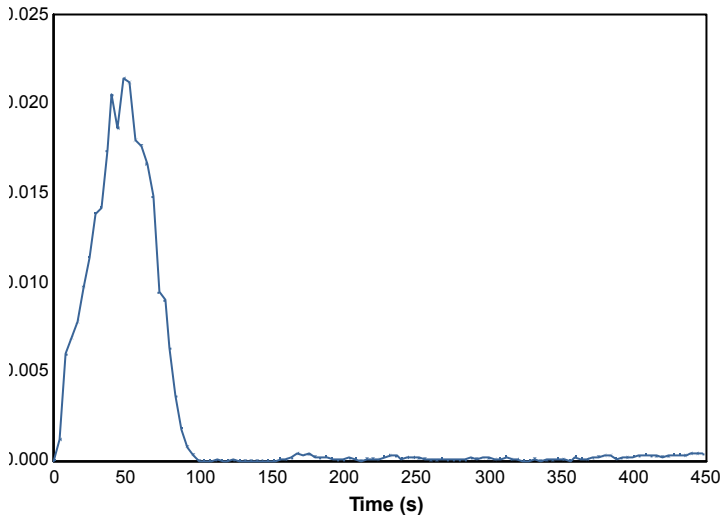
Heat release rate (kW/m<sup>2</sup>)



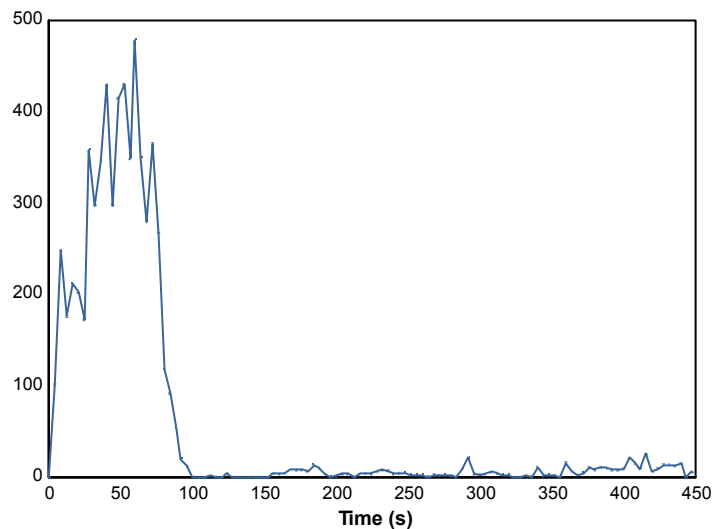
Effective heat of combustion (MJ/kg)



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



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



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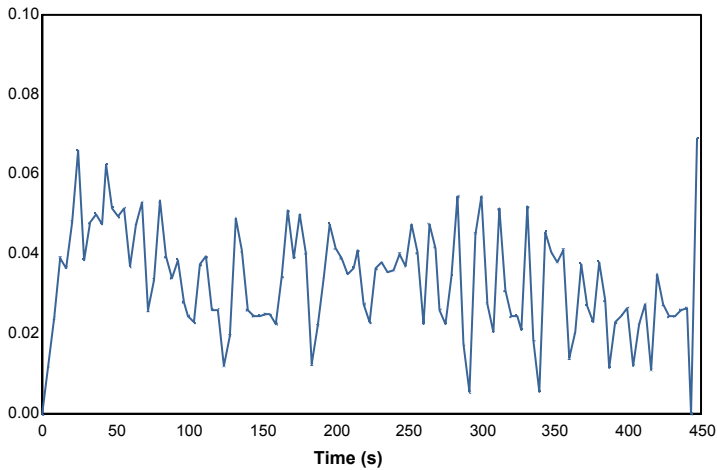
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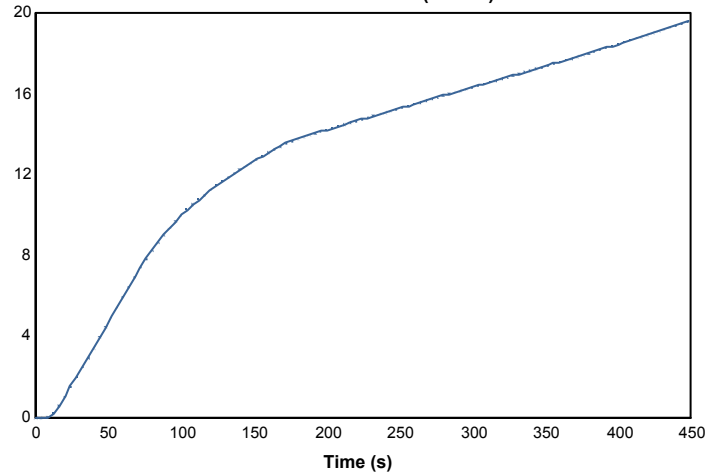
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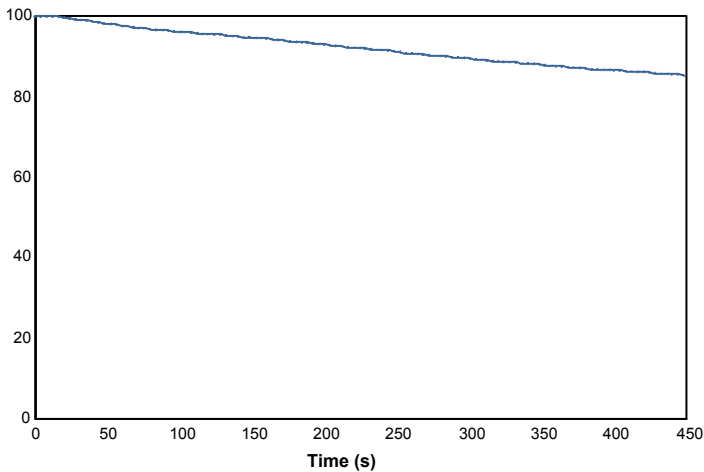
Mass loss rate (g/s)



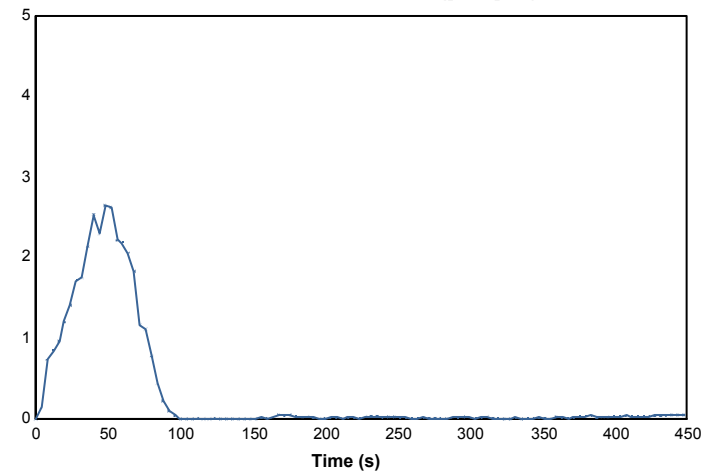
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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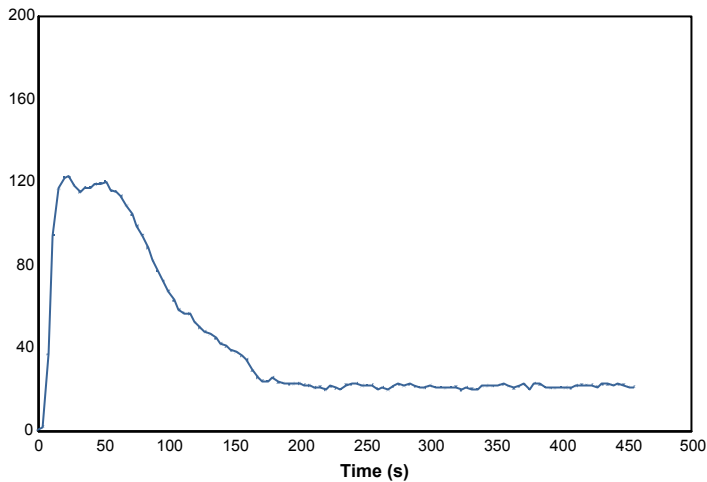
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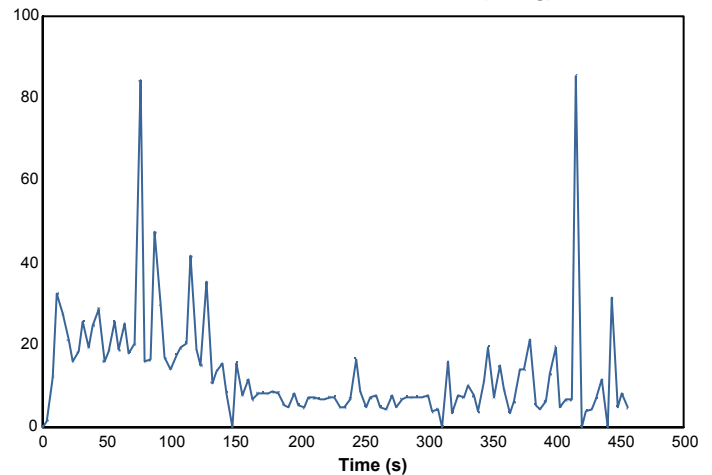
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**Specimen :** 3

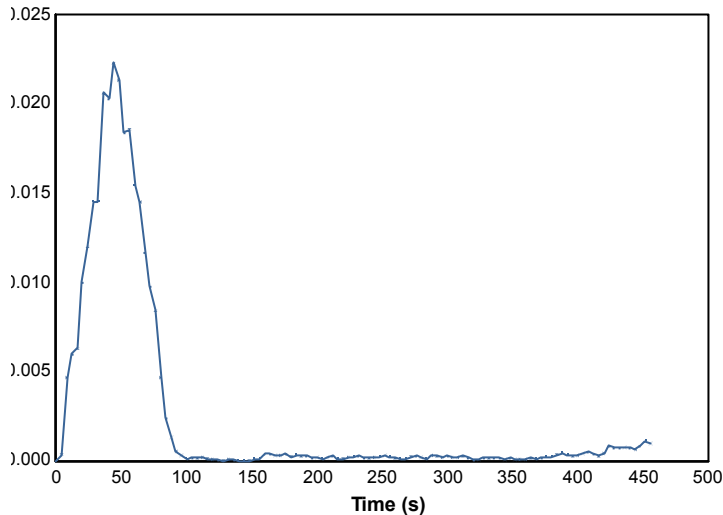
Heat release rate (kW/m<sup>2</sup>)



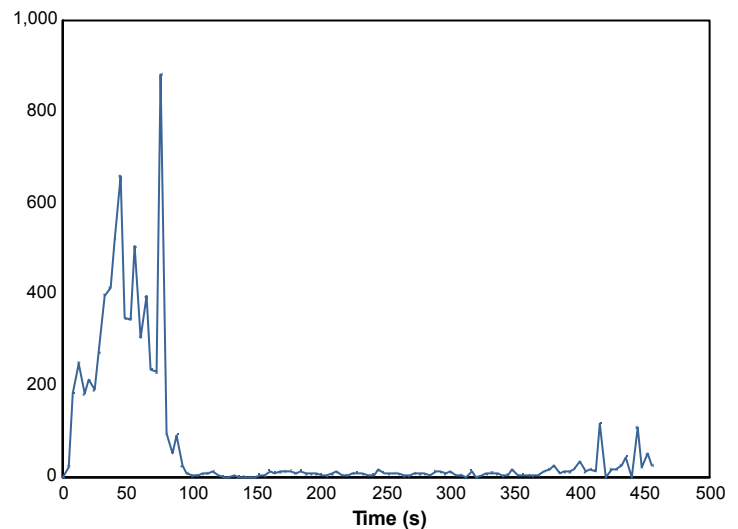
Effective heat of combustion (MJ/kg)



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



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



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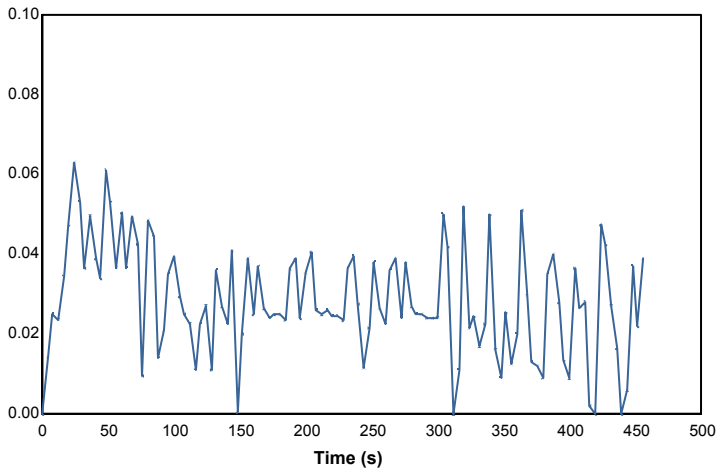
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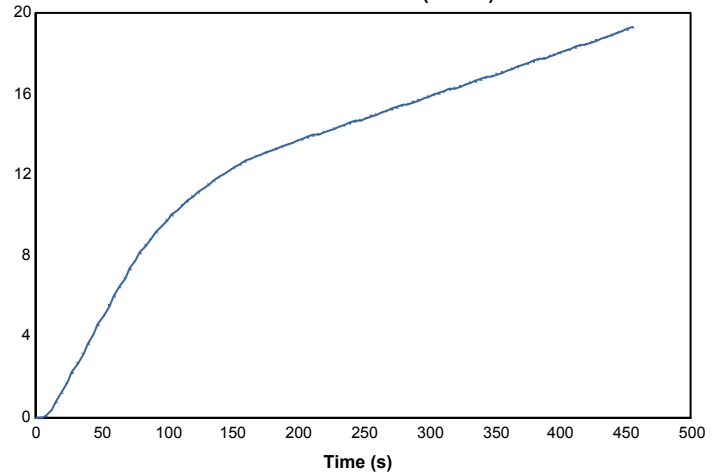
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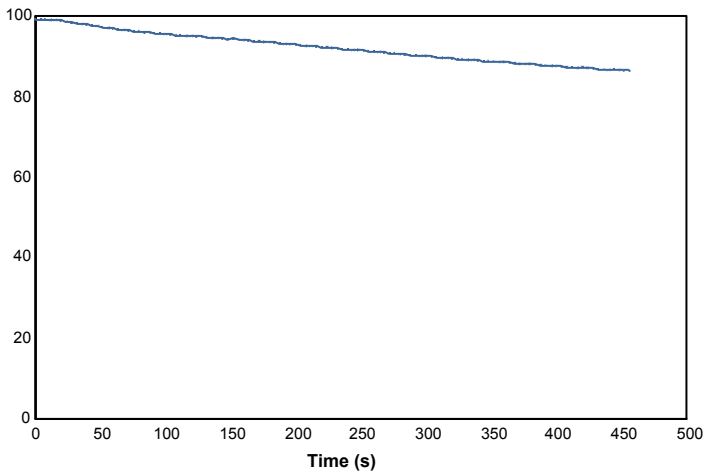
Mass loss rate (g/s)



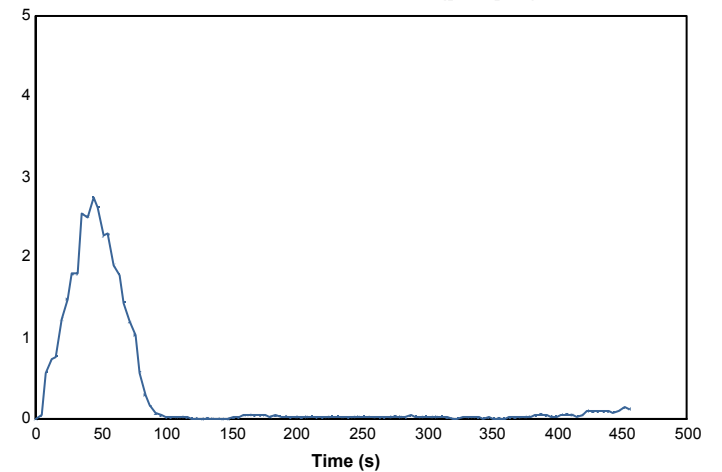
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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