

# 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 :** 17-003253  
**Issue Date :** 17/07/2017  
**Print Date :** 6/09/2017

**Sample Description** Clients Ref : "Wicanders Corkcomfort Dark"  
Colour : Dark Brown  
End Use : Wall lining and Ceiling lining  
Nominal Composition : Cork  
Nominal Mass per Unit Area/Density : Approx. 433g/m2  
Nominal Thickness : 8mm

### AS/NZS 3837-1998

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	63.2	54.5	60.6	59.4	kW/m <sup>2</sup>
Average Specific extinction area	307.5	269.4	257.0	278.0	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	24	24	24	24	L/sec
Time to sustained flaming	18	14	16	16	sec
Test duration	2049	2106	2190	2115	sec
Peak heat release after ignition	152.1	144.5	137.9	144.8	kW/m <sup>2</sup>
Average heat at 60 s	113.4	108.3	103.5	108.4	kW/m <sup>2</sup>
Average heat at 180 s	114.4	110.0	103.7	109.4	kW/m <sup>2</sup>
Average heat at 300 s	115.1	108.8	102.5	108.8	kW/m <sup>2</sup>
Total heat released	128.5	114.0	131.6	124.7	MJ/m <sup>2</sup>
Average effective heat of combustion	24.9	23.0	26.1	24.7	MJ/kg

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Initial thickness	8.0	8.0	8.0	8.0	mm
Initial mass	44.3	41.6	44.1	43.3	g
Mass remaining	2.1	1.7	2.9	2.3	g
Mass percentage pyrolysed	95.2	95.8	93.5	94.8	%
Mass loss	42.2	39.9	41.2	41.1	g
Average rate of mass loss	2.5	2.4	2.3	2.4	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.

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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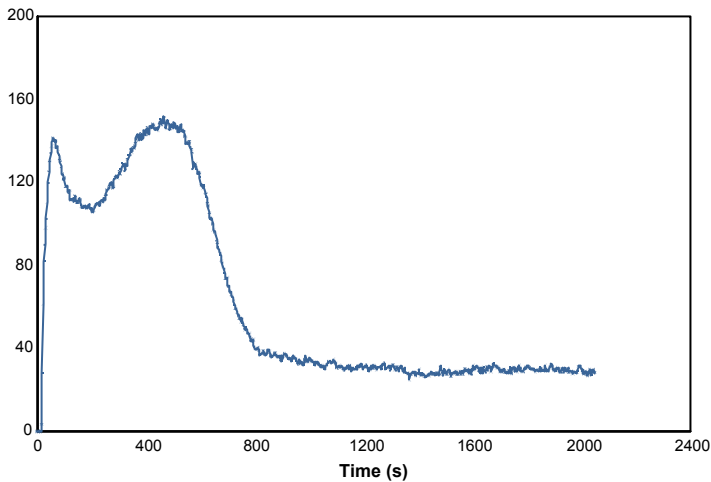
## TEST REPORT

**Client :** Market Timbers Aust. Pty Ltd  
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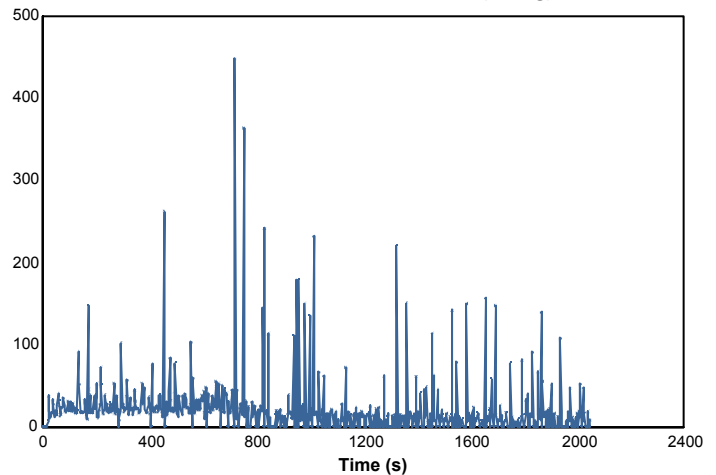
**Test Number :** 17-003253  
**Issue Date :** 17/07/2017  
**Print Date :** 6/09/2017

**Specimen :** 1

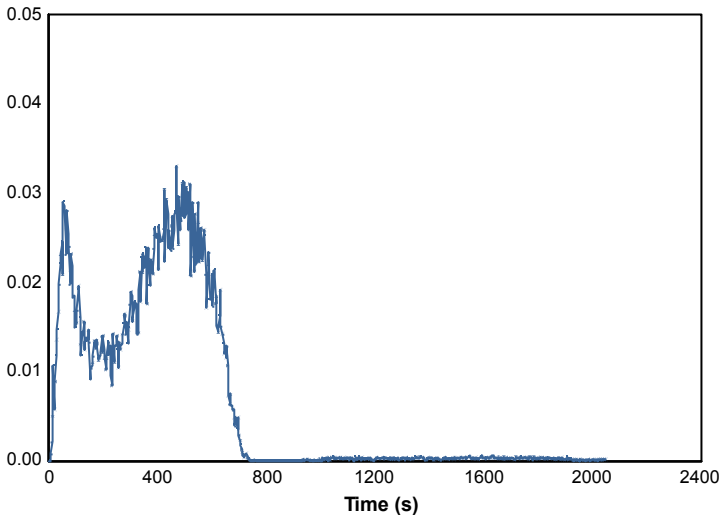
**Heat release rate (kW/m<sup>2</sup>)**



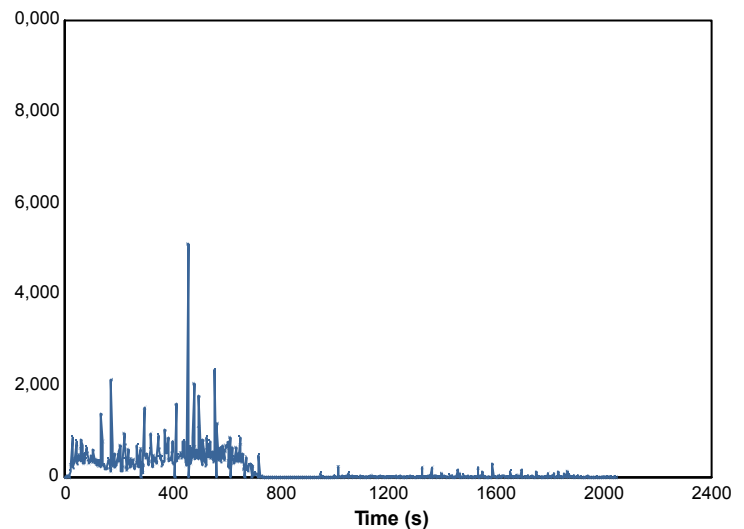
**Effective heat of combustion (MJ/kg)**



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



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



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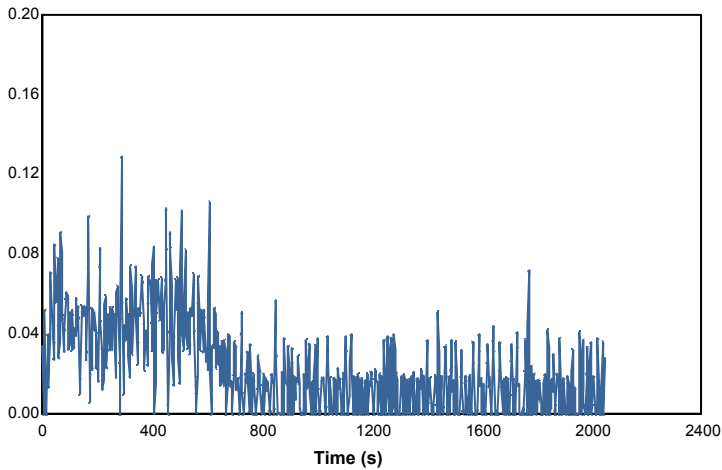
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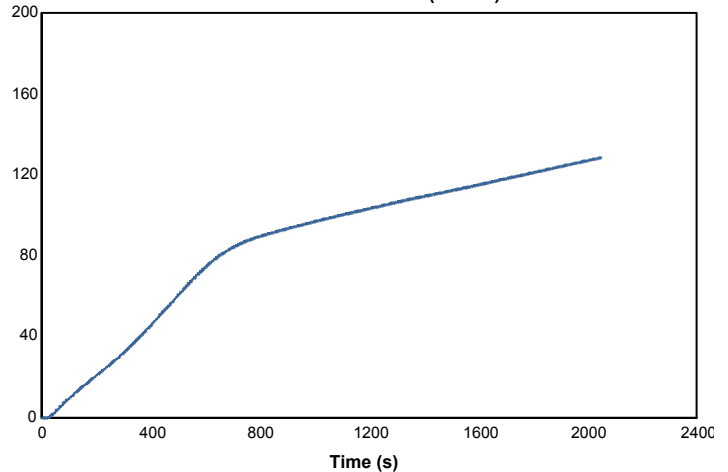
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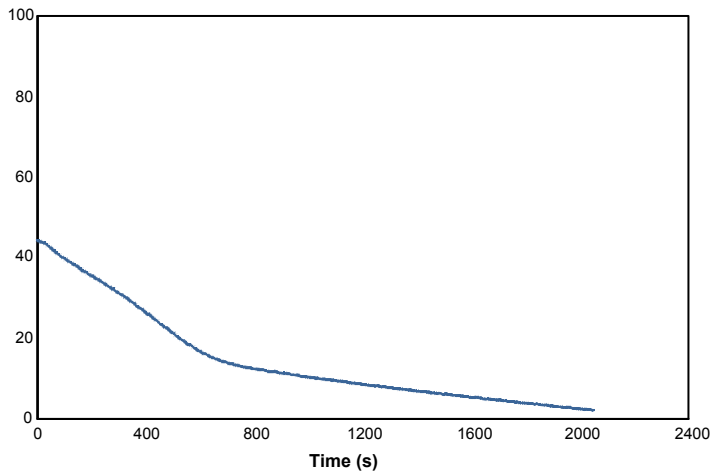
Mass loss rate (g/s)



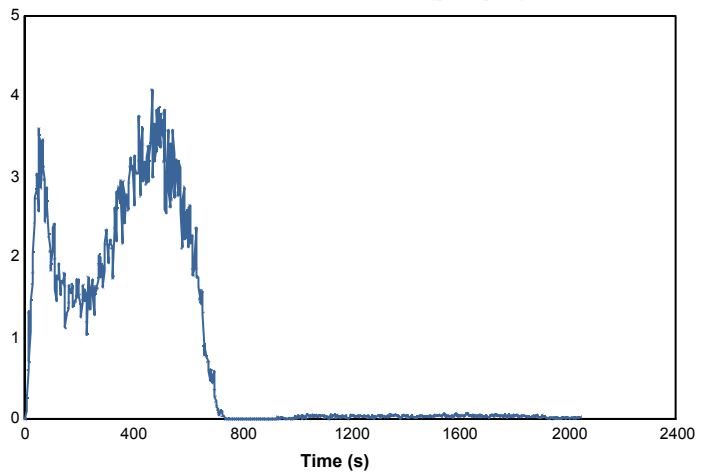
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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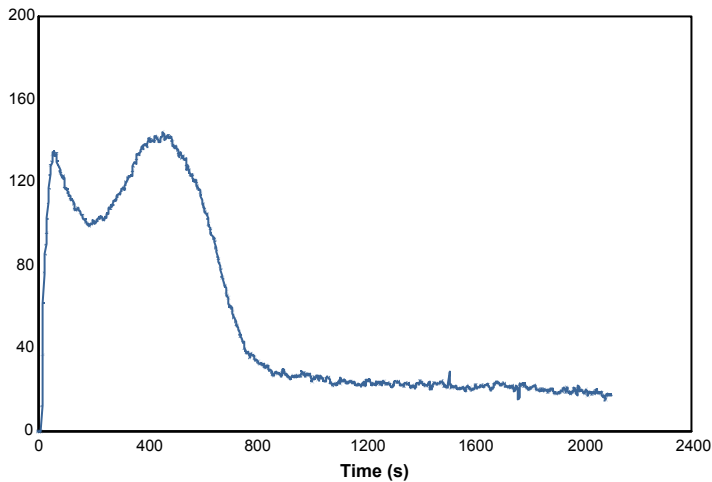
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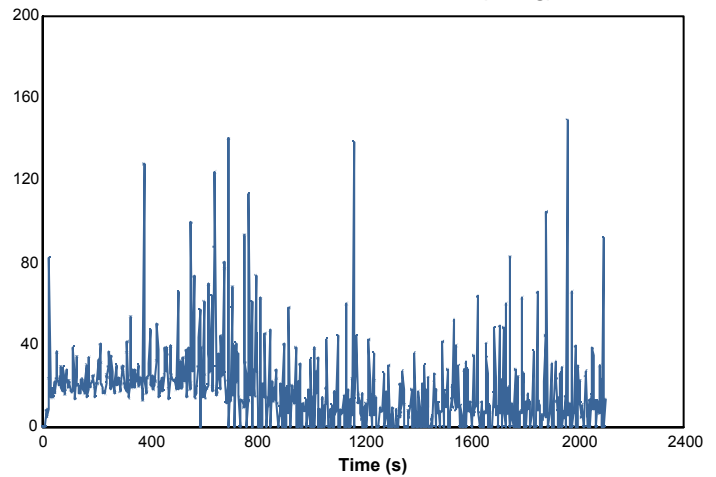
**Test Number :** 17-003253  
**Issue Date :** 17/07/2017  
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**Specimen :** 2

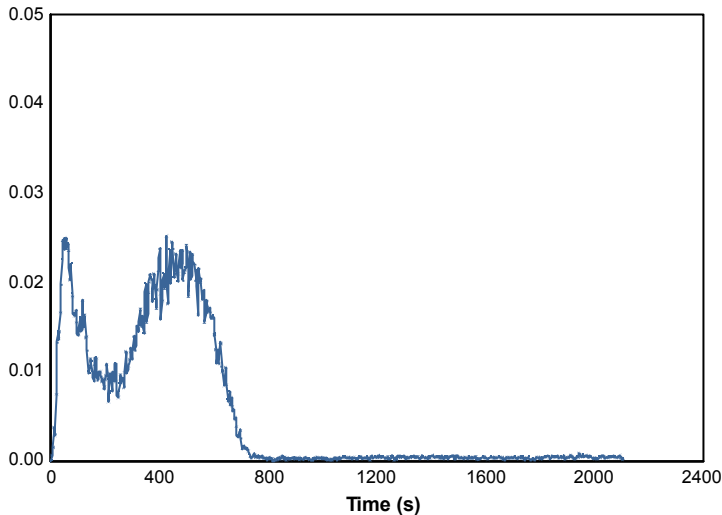
**Heat release rate (kW/m<sup>2</sup>)**



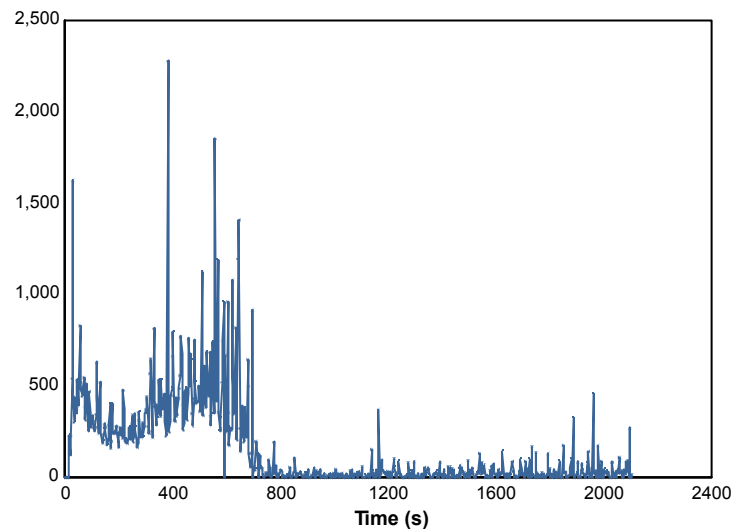
**Effective heat of combustion (MJ/kg)**



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



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



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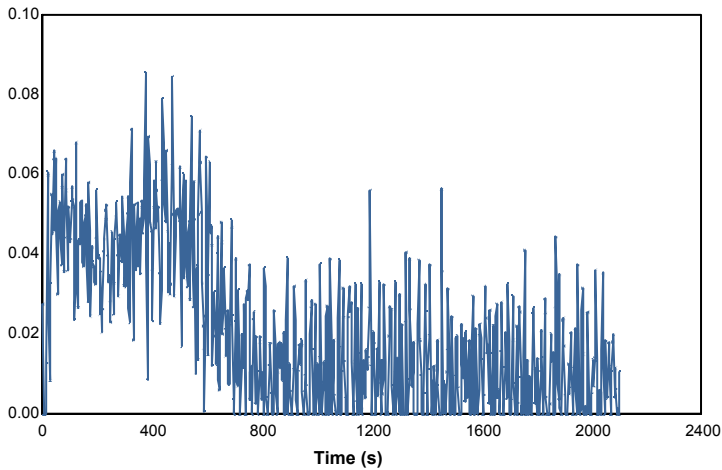
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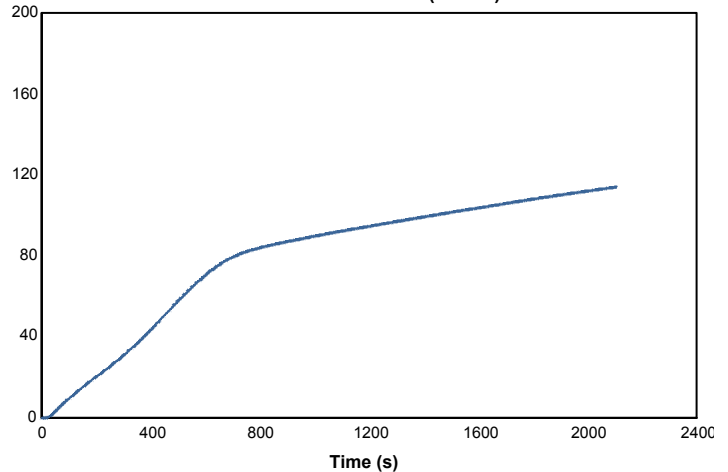
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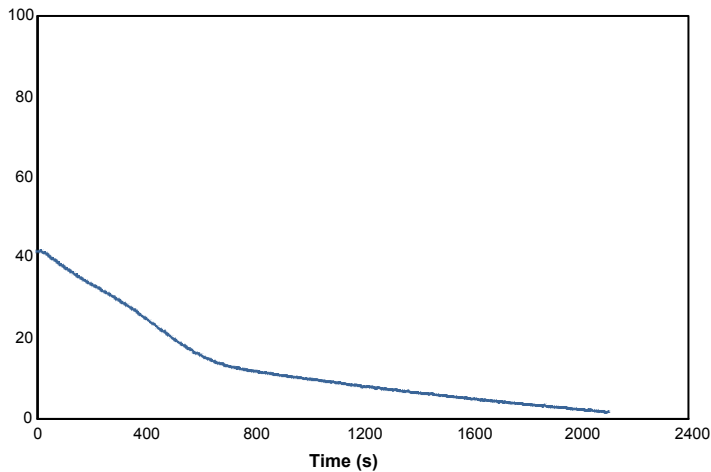
Mass loss rate (g/s)



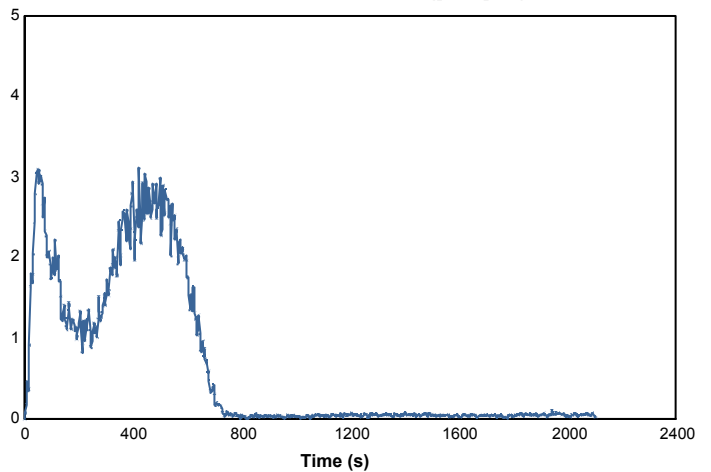
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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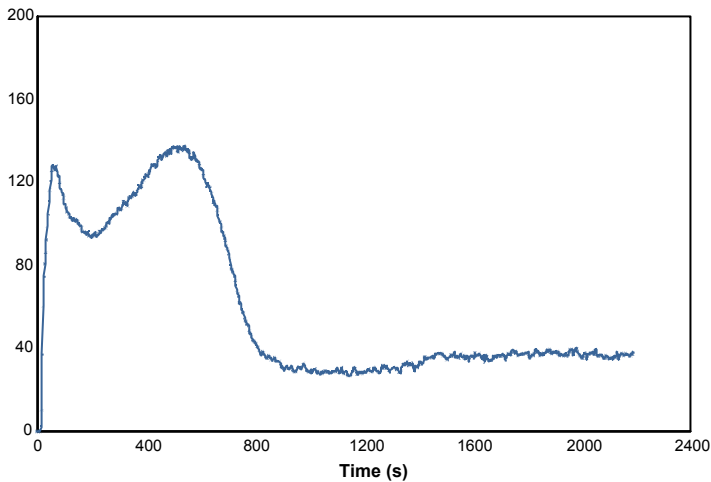
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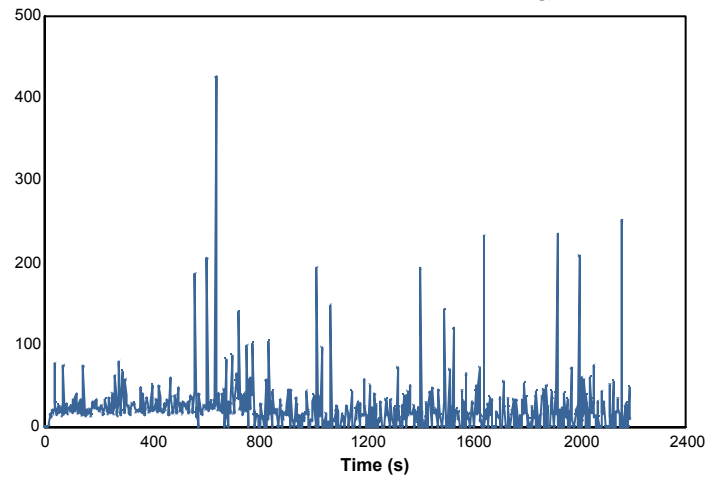
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**Specimen :** 3

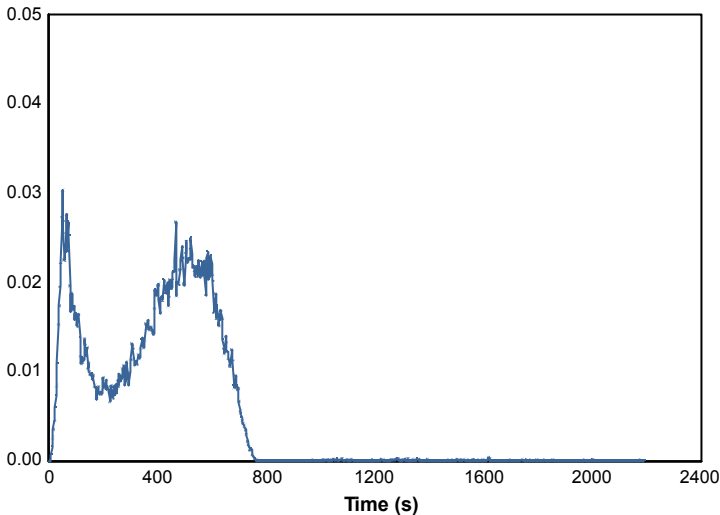
**Heat release rate (kW/m<sup>2</sup>)**



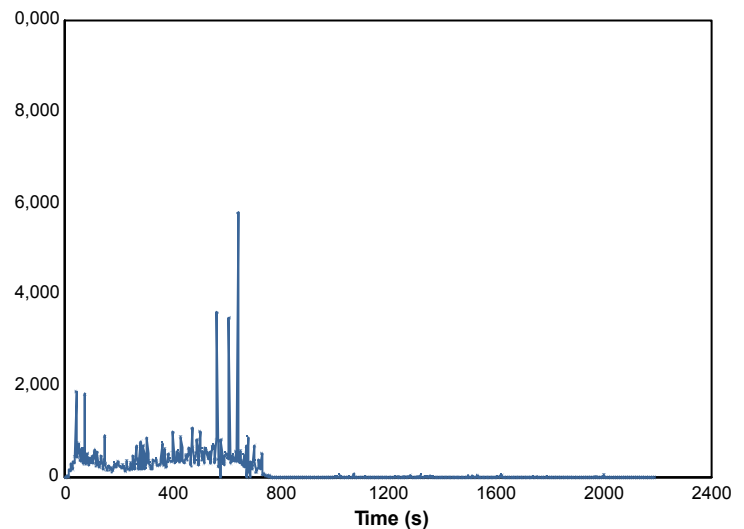
**Effective heat of combustion (MJ/kg)**



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



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



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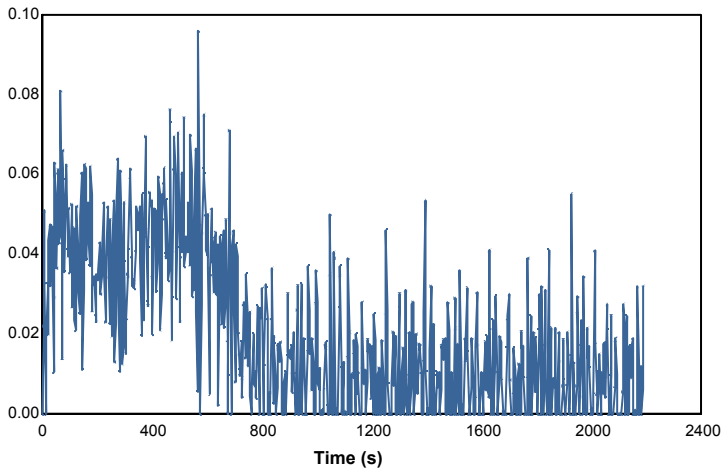
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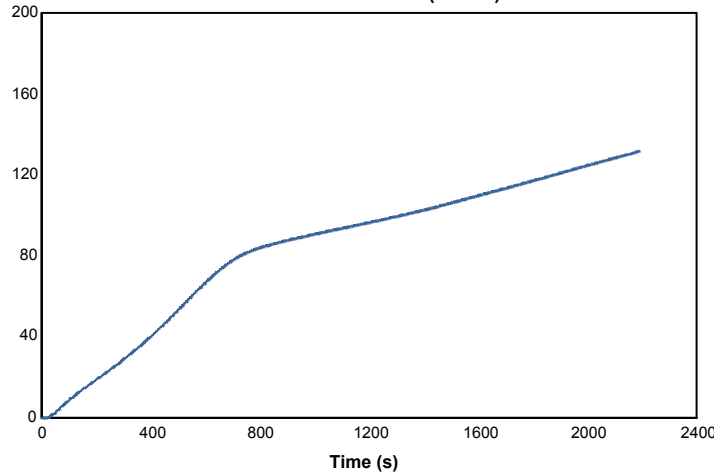
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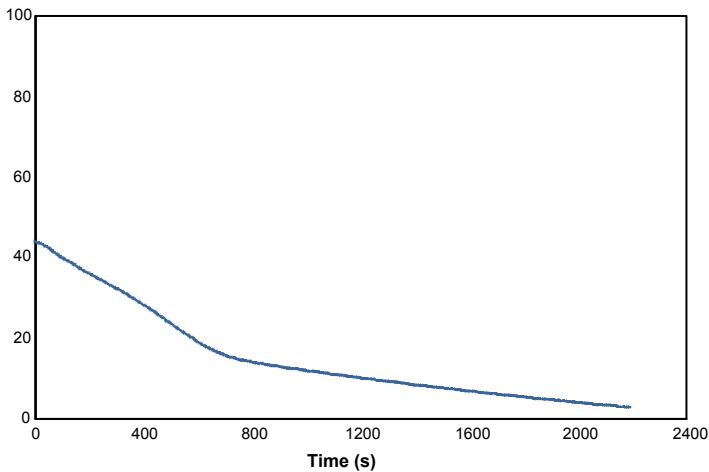
Mass loss rate (g/s)



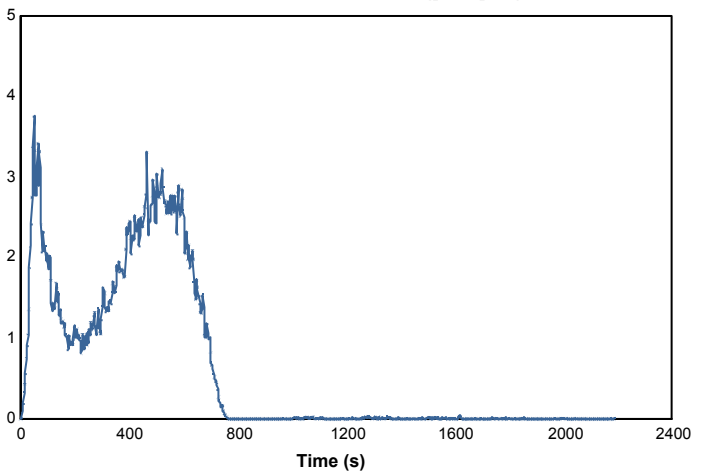
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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