

# 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 :** George Fethers  
740 Lorimer Street  
Port Melbourne VIC 3207

**Test Number :** 17-001446  
**Issue Date :** 05/04/2017  
**Print Date :** 1/05/2017

### Sample Description

Clients Ref : "Cellupal on MDF"  
Continuous pressed laminate on MDF  
Colour : Brown  
End Use : Internal Joinery  
Nominal Composition : Laminate/MDF  
Nominal Mass per Unit Area/Density : Laminate 50g/m<sup>2</sup> MDF 750kg/m<sup>3</sup>  
Nominal Thickness : Approx. 18mm

### 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	59.7	58.1	62.1	60.0	kW/m <sup>2</sup>
Average Specific extinction area	25.6	36.5	31.0	31.0	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	25	25	29	26	sec
Test duration	3600	3600	3600	3600	sec

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Peak heat release after ignition	156.0	177.9	159.8	164.6	kW/m <sup>2</sup>
Average heat at 60 s	128.8	123.4	124.7	125.6	kW/m <sup>2</sup>
Average heat at 180 s	136.1	142.2	140.7	139.7	kW/m <sup>2</sup>
Average heat at 300 s	127.1	126.3	132.7	128.7	kW/m <sup>2</sup>
Total heat released	213.5	207.8	221.6	214.3	MJ/m <sup>2</sup>
Average effective heat of combustion	14.6	14.6	14.9	14.7	MJ/kg
Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	135.1	131.8	135.8	134.2	g
Mass remaining	16.7	16.1	15.0	15.9	g
Mass percentage pyrolysed	87.7	87.8	89.0	88.2	%
Mass loss	118.4	115.7	120.8	118.3	g
Average rate of mass loss	4.1	4.0	4.2	4.1	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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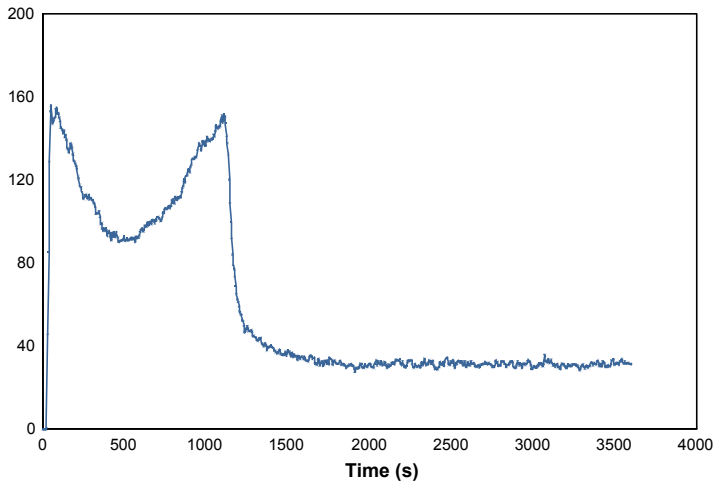
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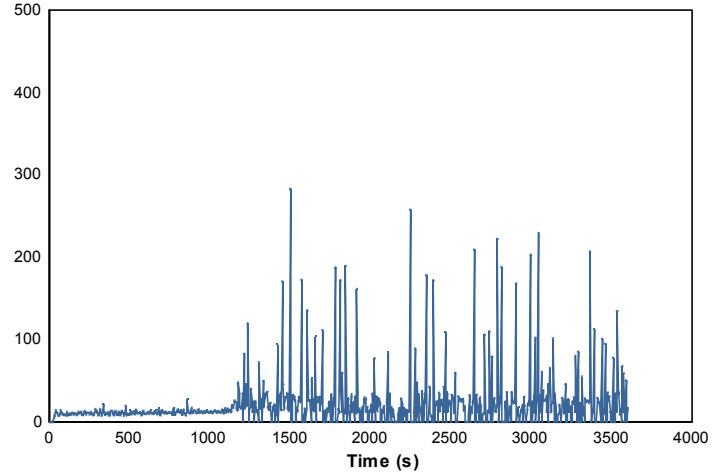
**Test Number :** 17-001446  
**Issue Date :** 05/04/2017  
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**Specimen :** 1

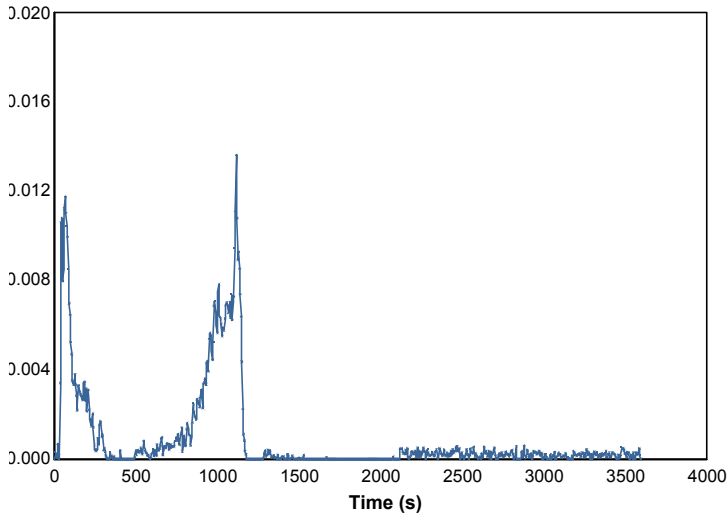
**Heat release rate (kW/m<sup>2</sup>)**



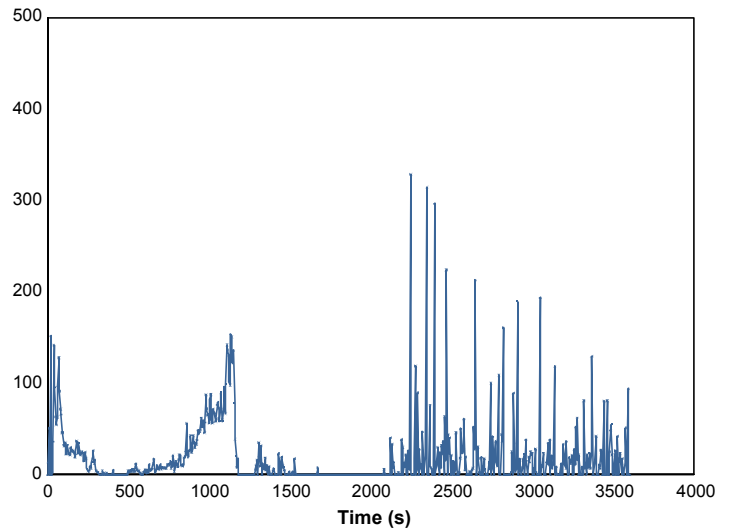
**Effective heat of combustion (MJ/kg)**



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



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



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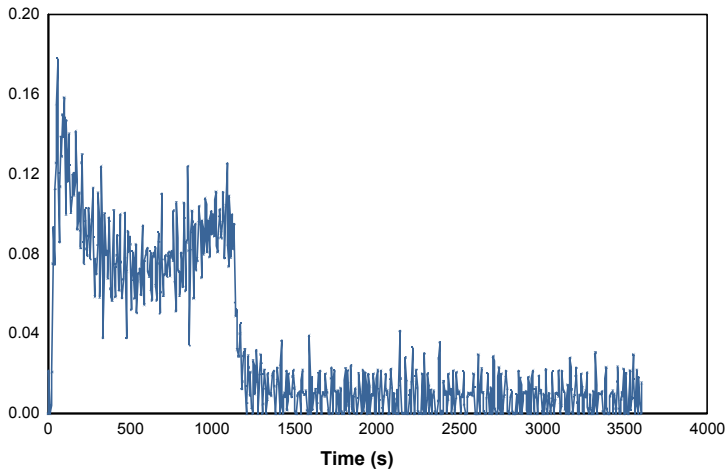
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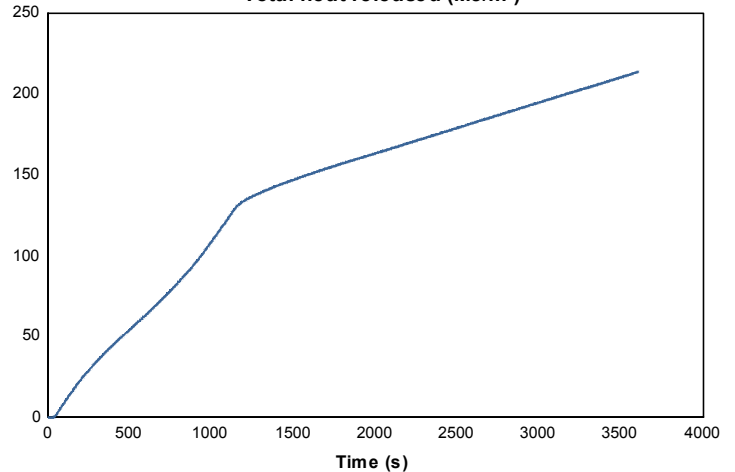
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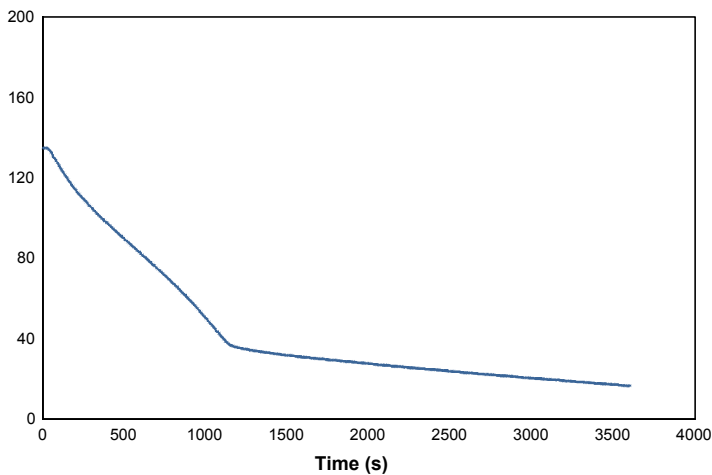
Mass loss rate (g/s)



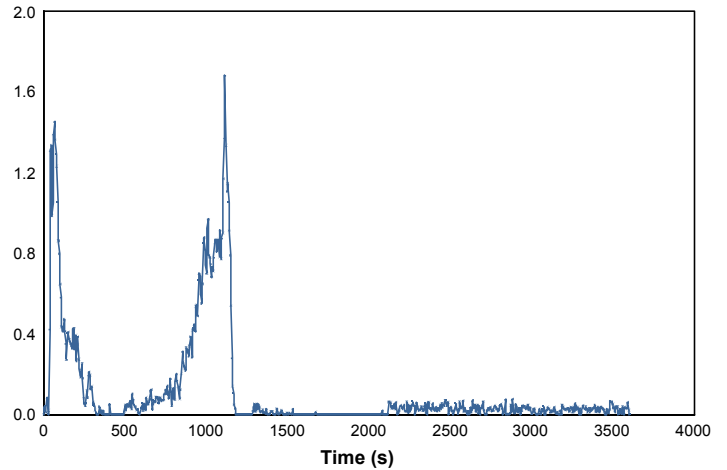
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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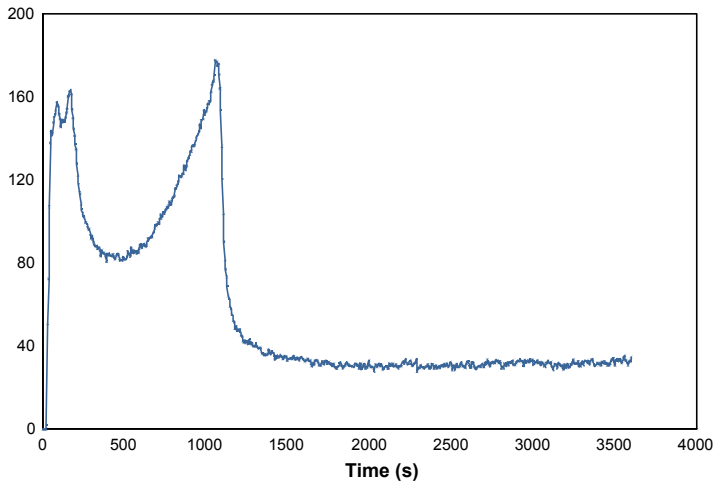
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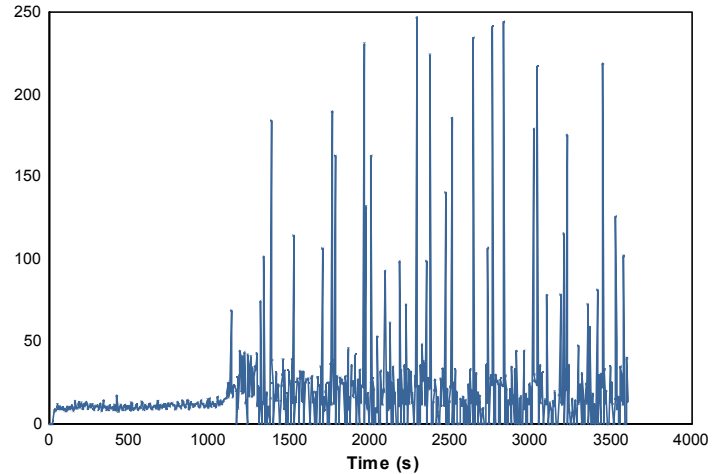
**Test Number :** 17-001446  
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**Specimen :** 2

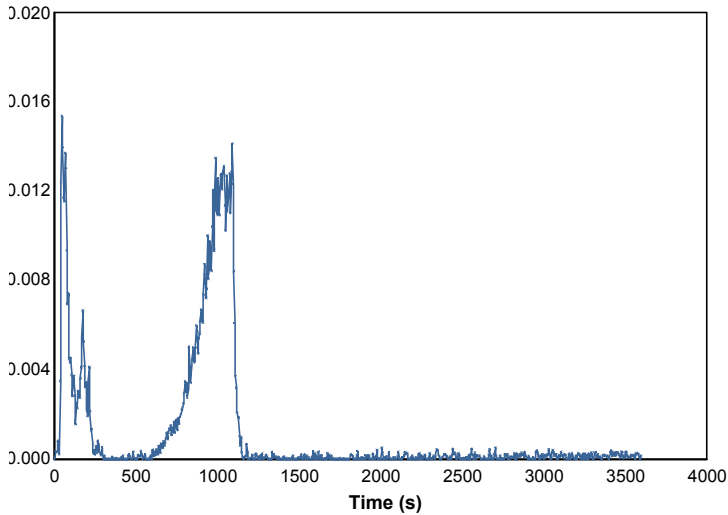
**Heat release rate (kW/m<sup>2</sup>)**



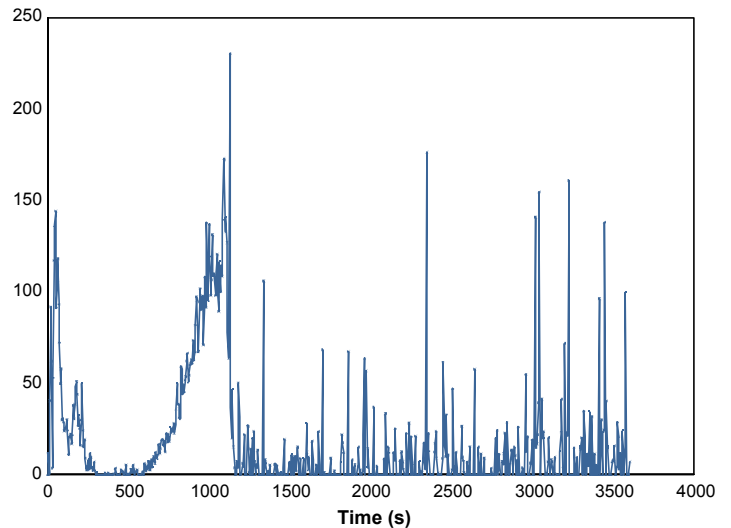
**Effective heat of combustion (MJ/kg)**



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



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



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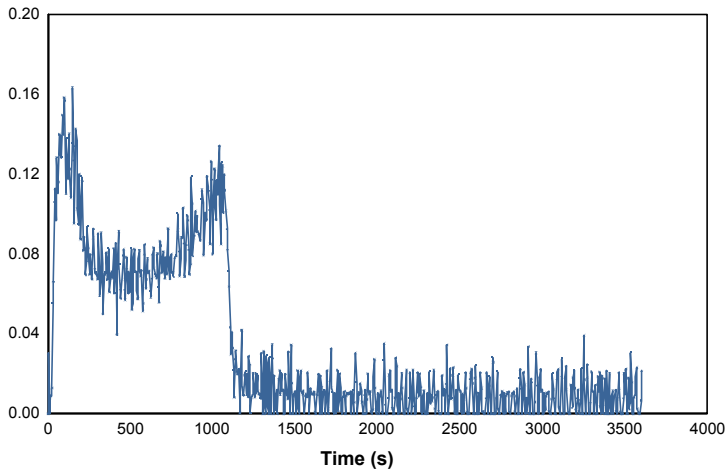
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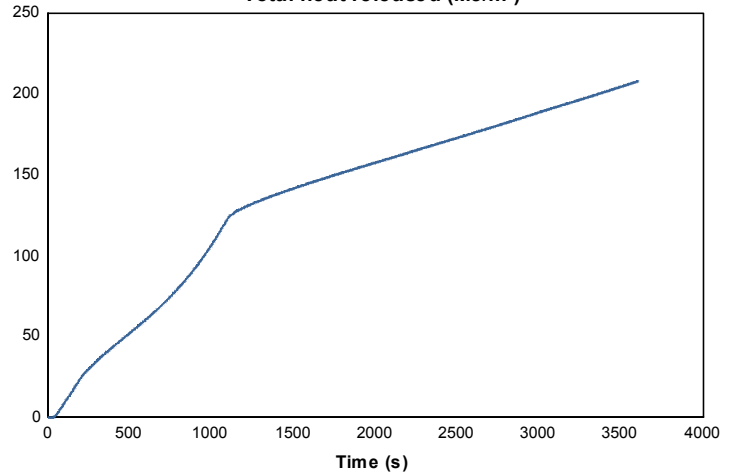
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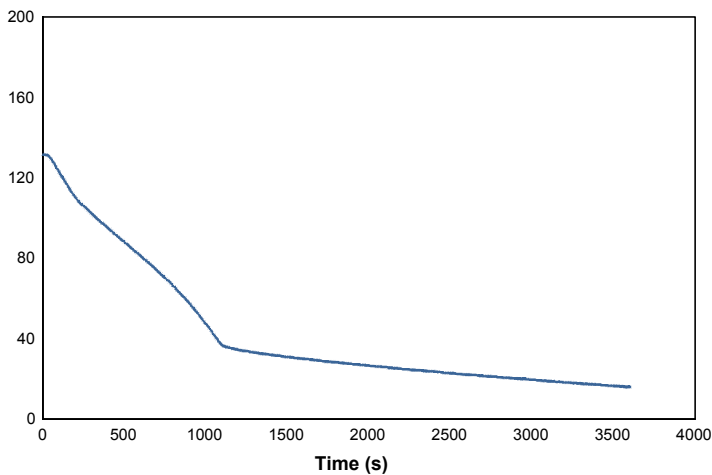
Mass loss rate (g/s)



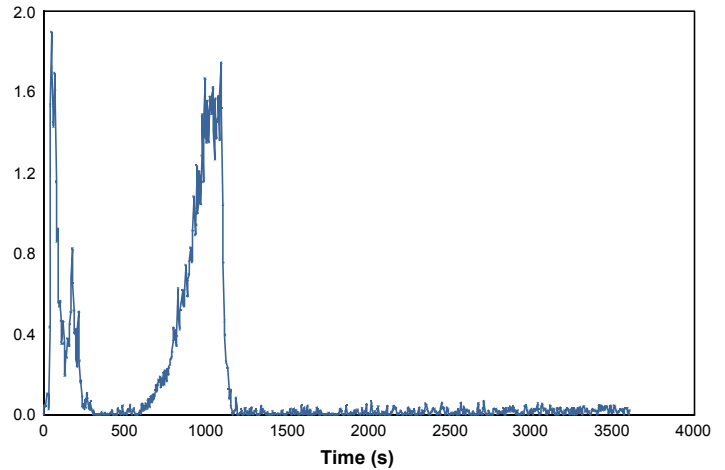
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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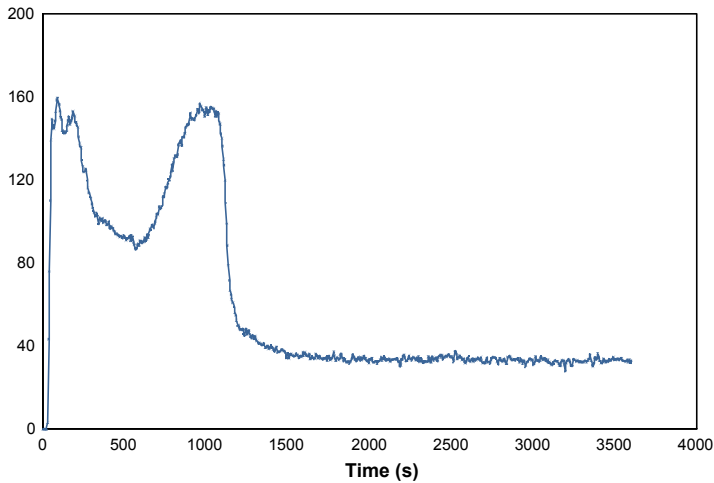
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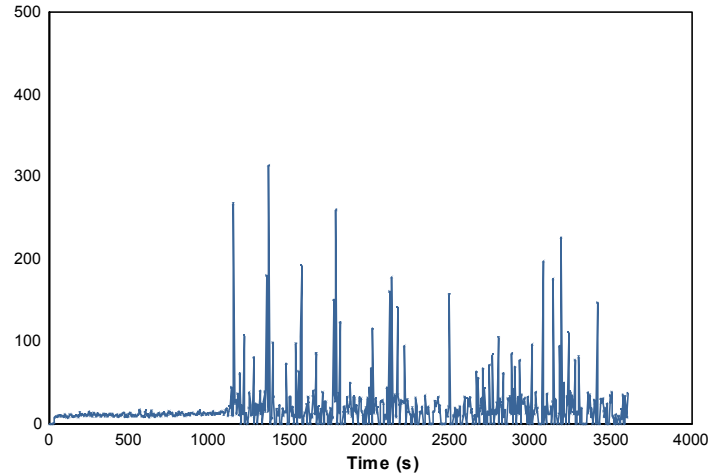
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**Specimen :** 3

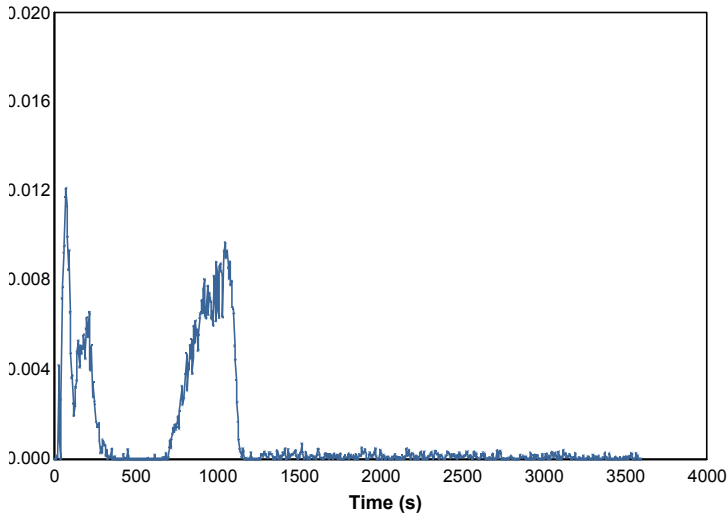
**Heat release rate (kW/m<sup>2</sup>)**



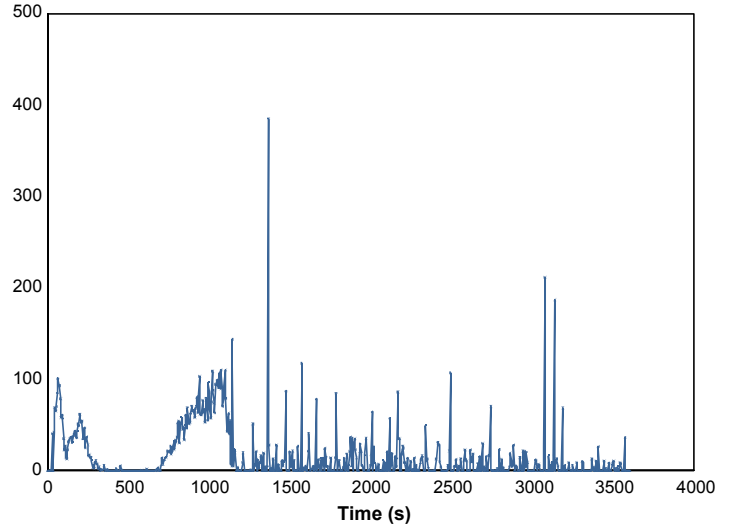
**Effective heat of combustion (MJ/kg)**



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



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



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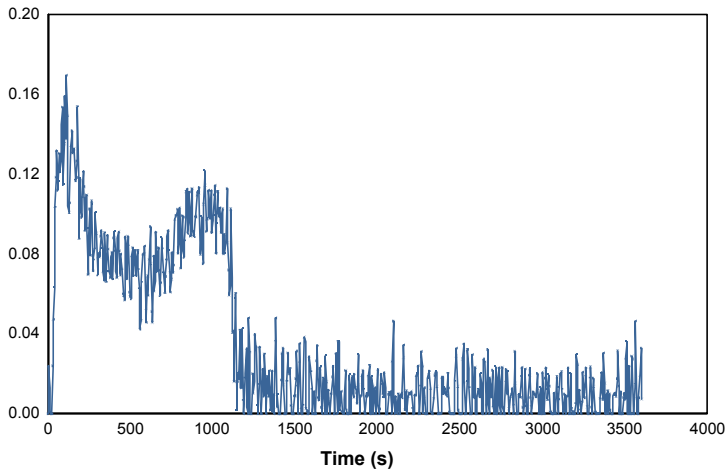
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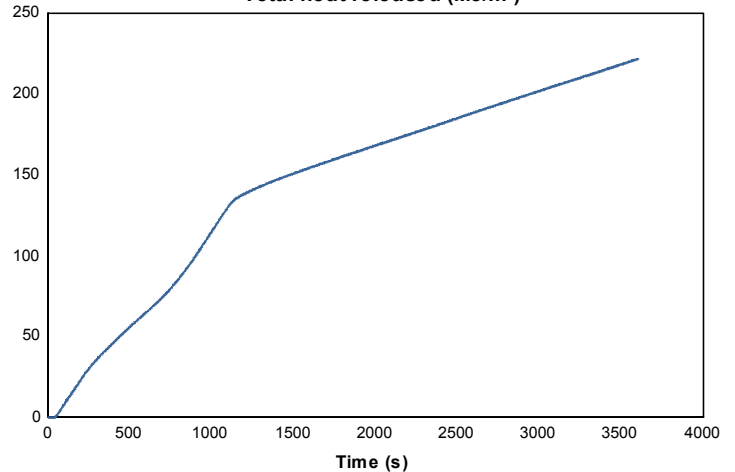
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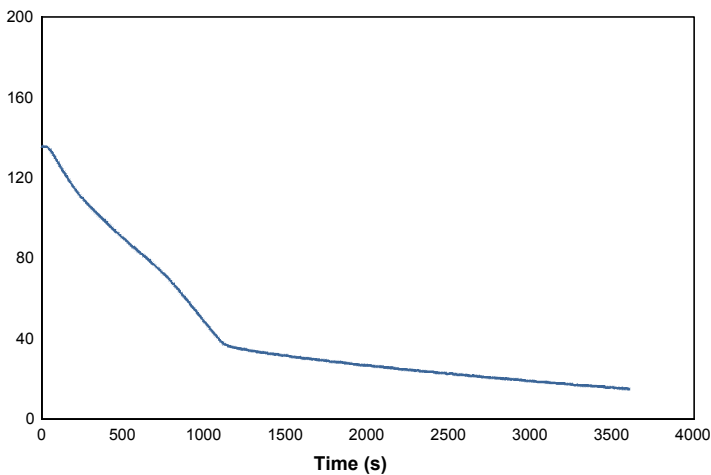
Mass loss rate (g/s)



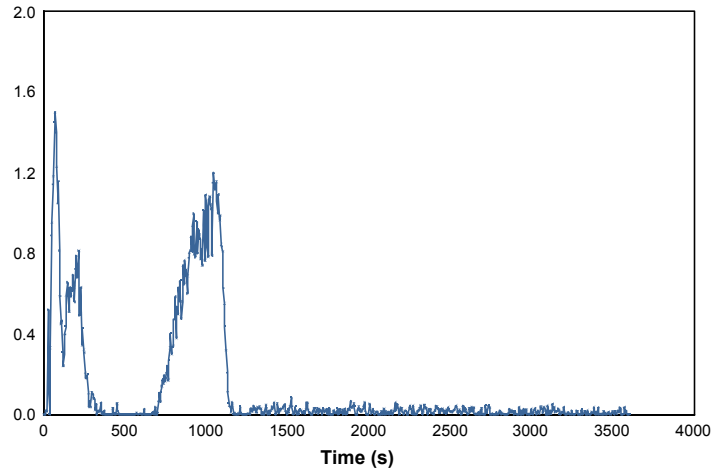
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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