

# 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 :** Modinex Group  
150 Toongarra Road  
Wulkuraka QLD 4305

**Test Number :** 18-002638  
**Issue Date :** 29/06/2018  
**Print Date :** 29/06/2018

**Sample Description** Clients Ref : "Western Red Cedar - Seasoned"  
Solid timber block  
Colour : Natural  
End Use : Ceiling Profiles - Pressed  
Nominal Composition : Red Cedar  
Nominal Mass per Unit Area/Density : Seasoned 350kg/m<sup>3</sup>, Unseasoned 490kg/m<sup>3</sup>  
Nominal Thickness : 47mm

**AS/NZS 3837-1998** Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 29/06/2018

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	59.9	63.3	62.2	61.8	kW/m <sup>2</sup>
Average Specific extinction area	66.2	28.2	64.8	53.1	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	13	15	14	14	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	163.9	143.0	159.6	155.5	kW/m <sup>2</sup>
Average heat at 60 s	129.4	120.0	130.8	126.7	kW/m <sup>2</sup>
Average heat at 180 s	122.5	112.9	123.8	119.7	kW/m <sup>2</sup>
Average heat at 300 s	109.6	105.6	114.4	109.9	kW/m <sup>2</sup>

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APPROVED SIGNATORY

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

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Total heat released	214.9	227.1	222.9	221.6	MJ/m <sup>2</sup>
Average effective heat of combustion	15.7	15.1	16.0	15.6	MJ/kg
Initial thickness	38.0	38.0	38.0	38.0	mm
Initial mass	144.6	158.9	146.2	149.9	g
Mass remaining	33.6	37.2	33.4	34.8	g
Mass percentage pyrolysed	76.8	76.6	77.1	76.8	%
Mass loss	111.0	121.7	112.8	115.1	g
Average rate of mass loss	3.8	4.2	3.9	4.0	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.

Specimen thickness was reduced to 38mm for testing purposes.

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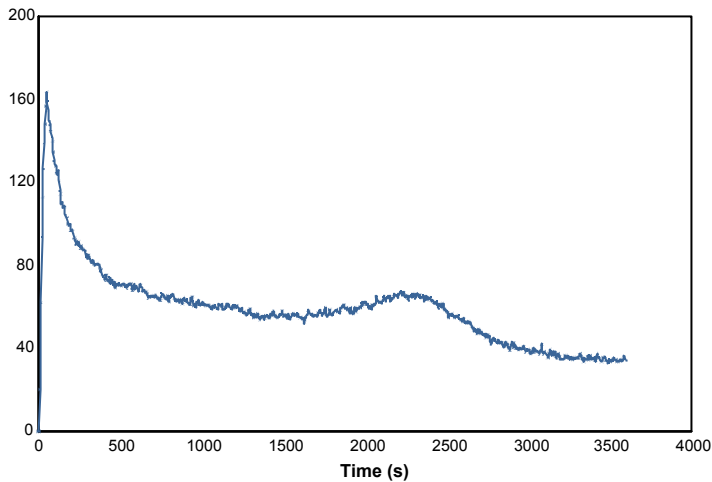
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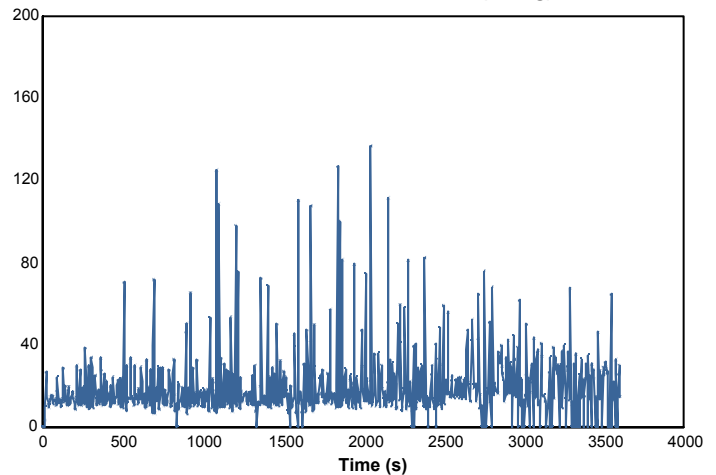
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**Issue Date :** 29/06/2018  
**Print Date :** 29/06/2018

**Specimen :** 1

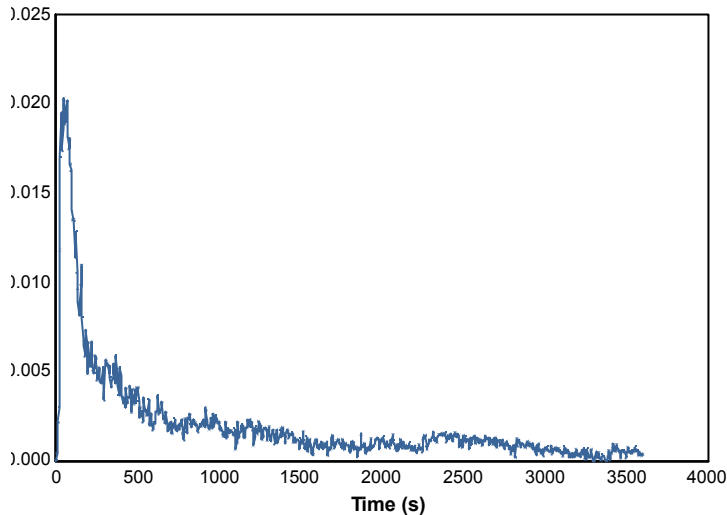
**Heat release rate (kW/m<sup>2</sup>)**



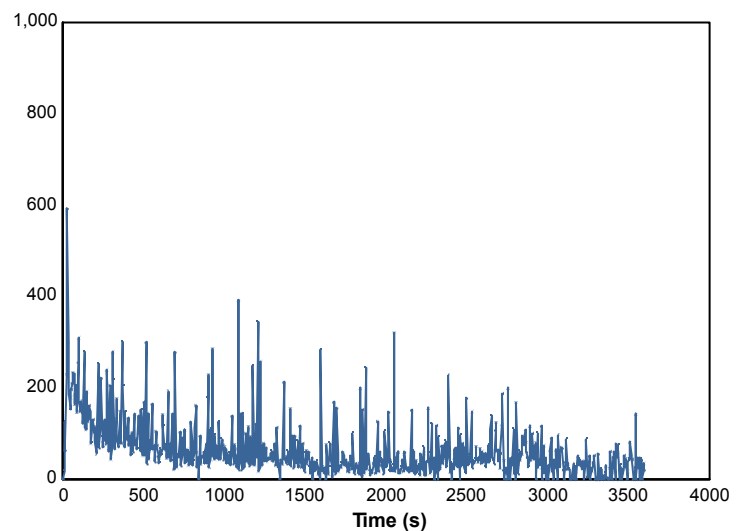
**Effective heat of combustion (MJ/kg)**



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



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



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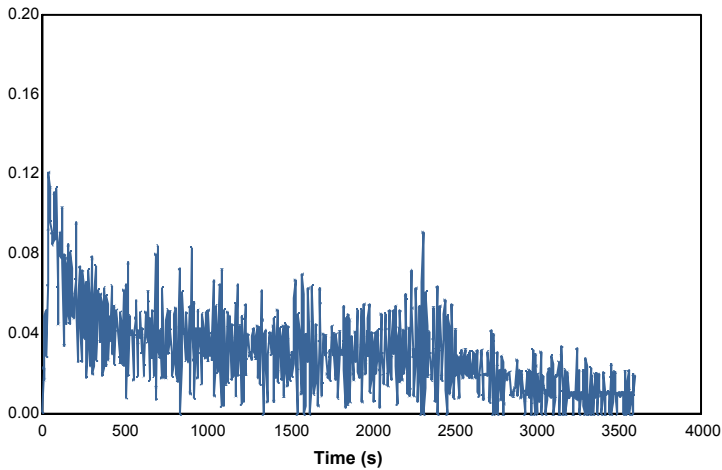
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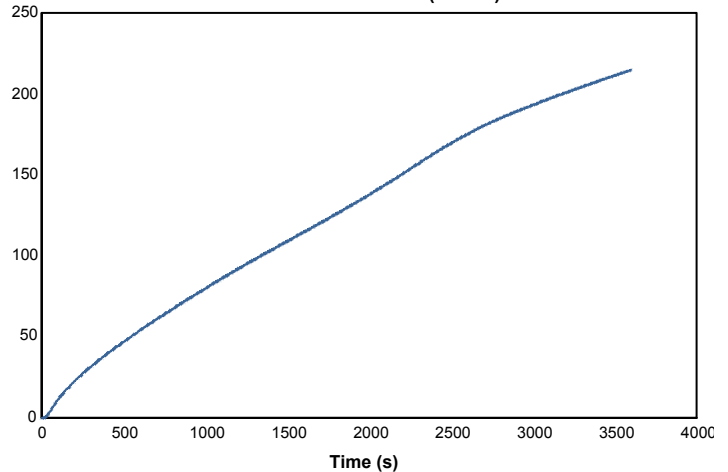
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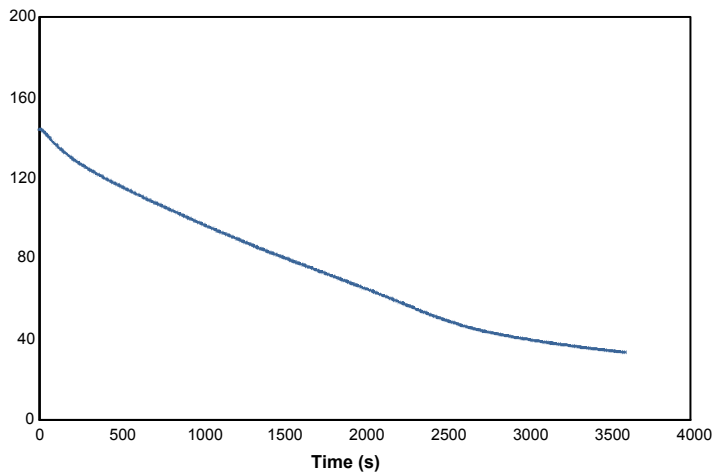
Mass loss rate (g/s)



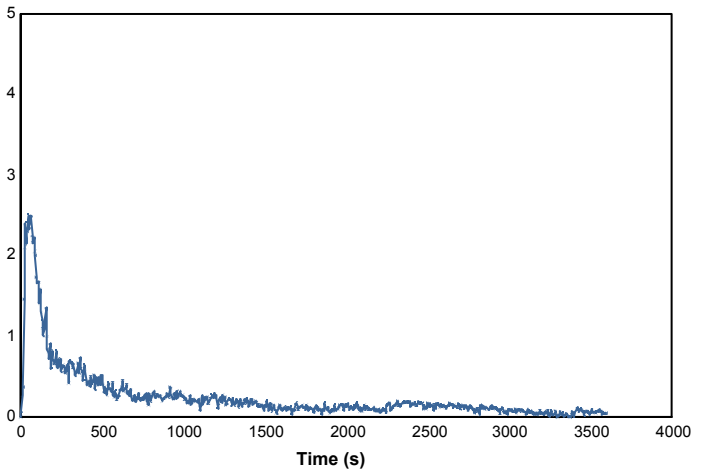
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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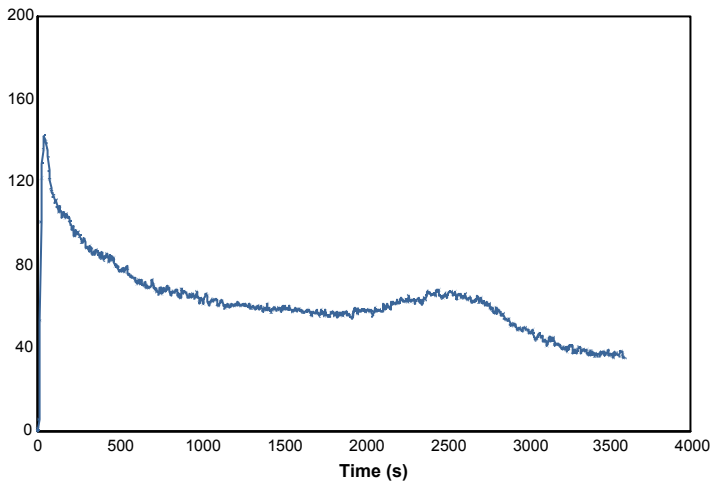
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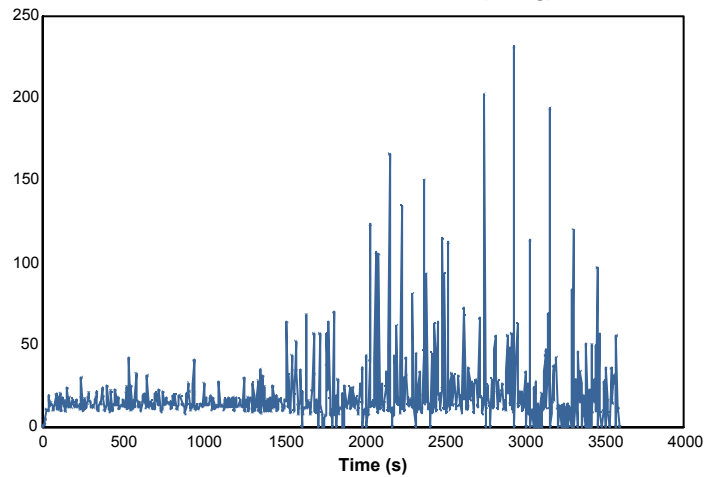
**Test Number :** 18-002638  
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**Specimen :** 2

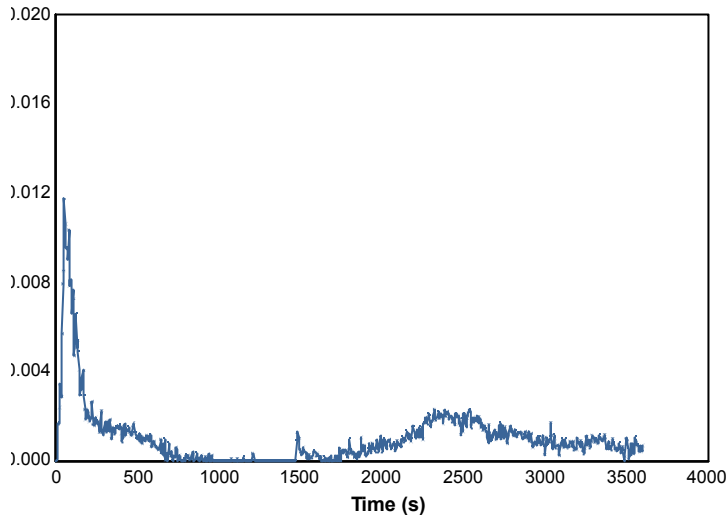
Heat release rate (kW/m<sup>2</sup>)



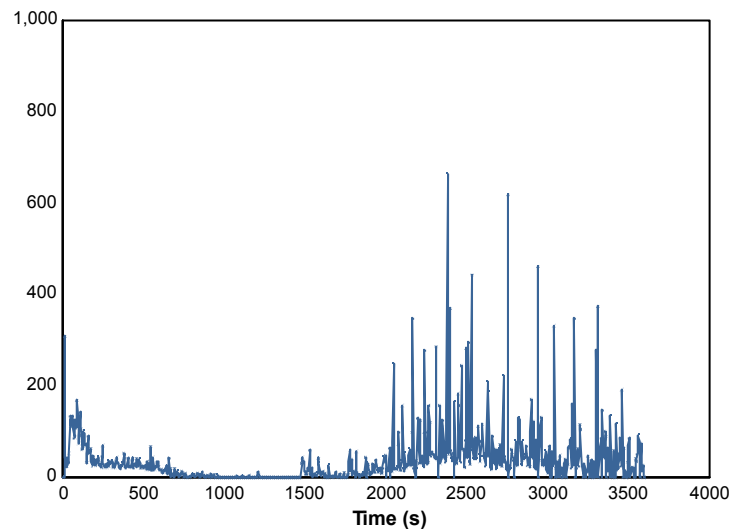
Effective heat of combustion (MJ/kg)



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



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



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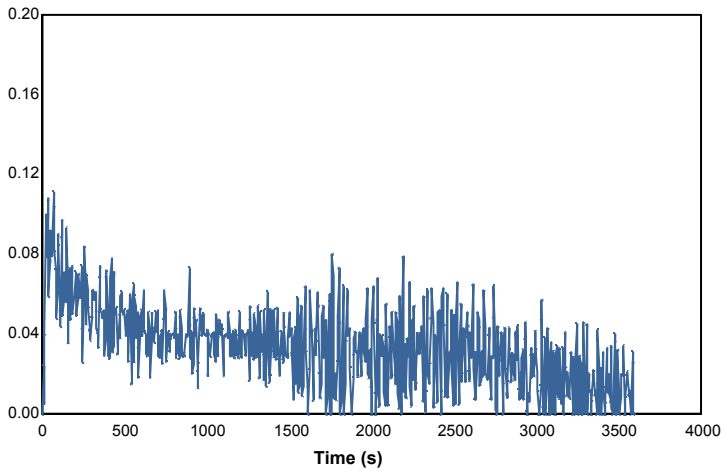
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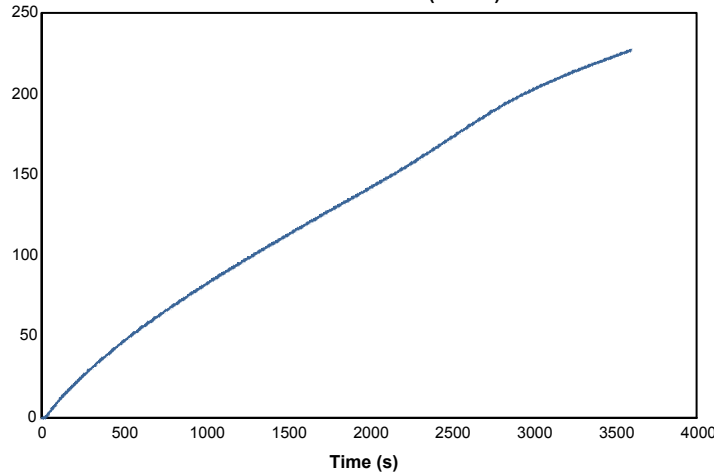
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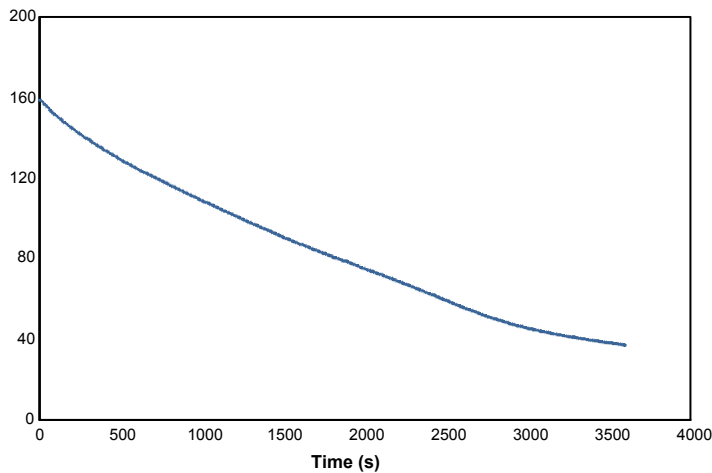
Mass loss rate (g/s)



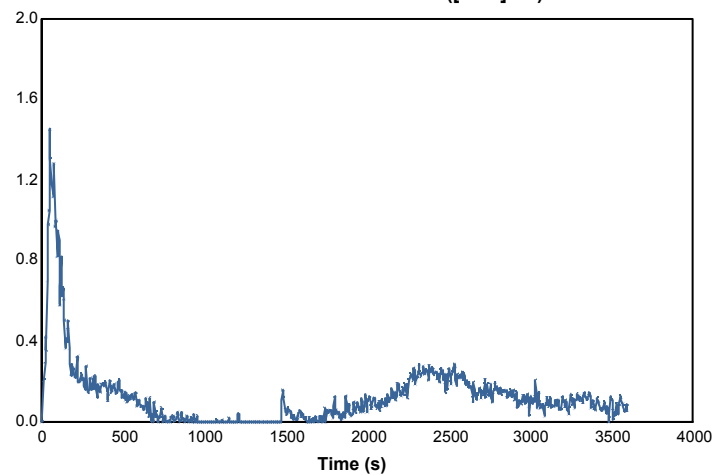
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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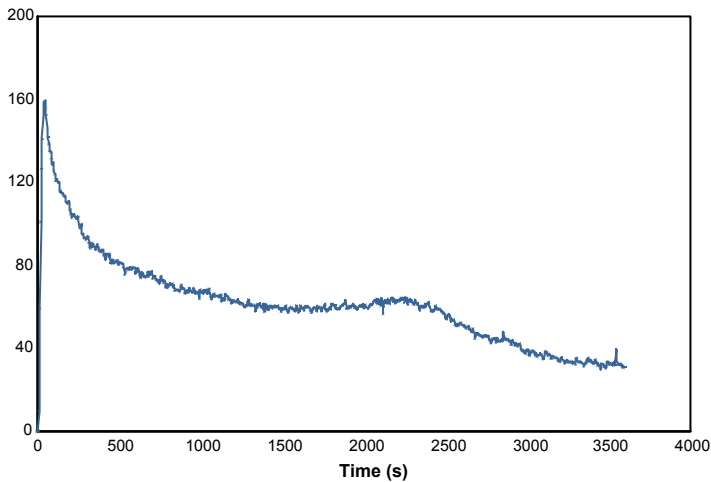
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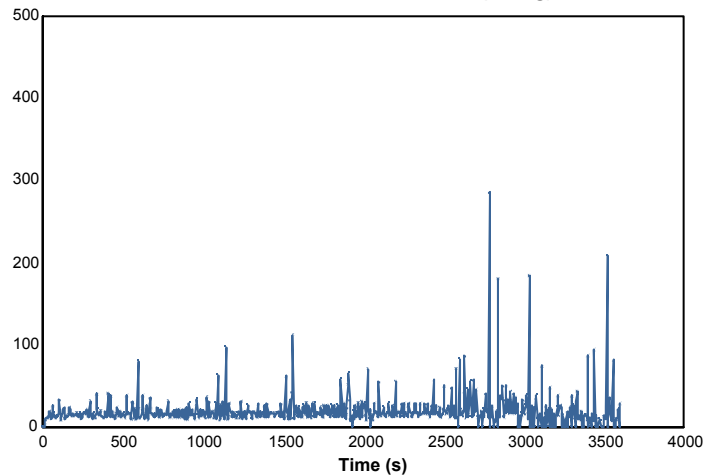
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**Specimen :** 3

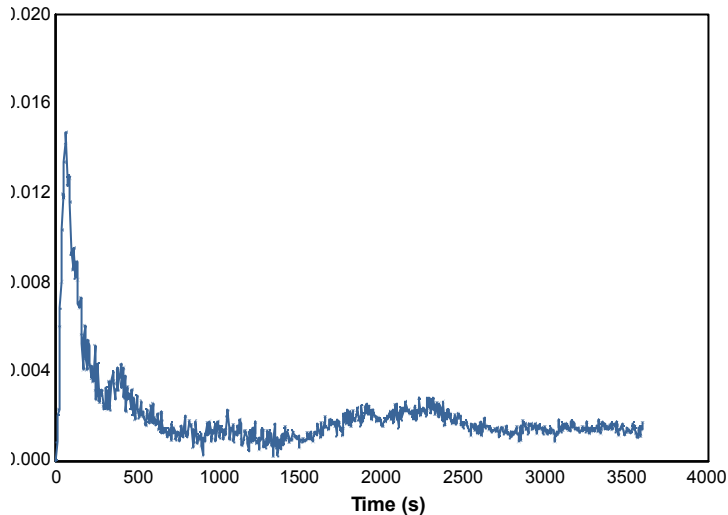
Heat release rate (kW/m<sup>2</sup>)



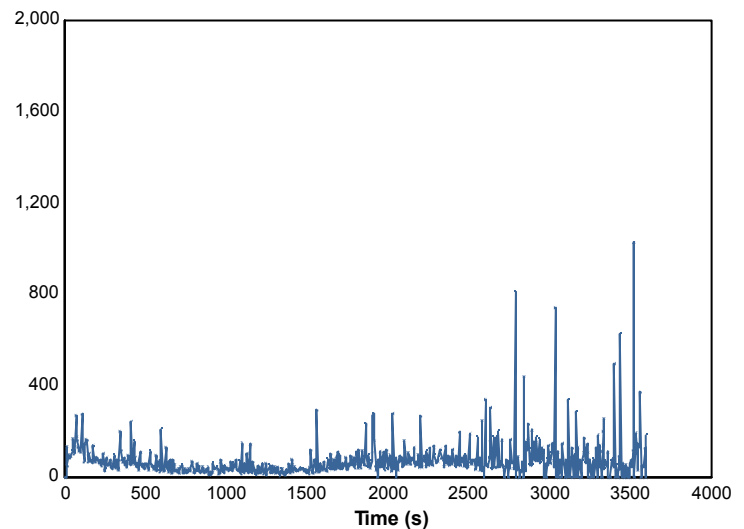
Effective heat of combustion (MJ/kg)



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



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



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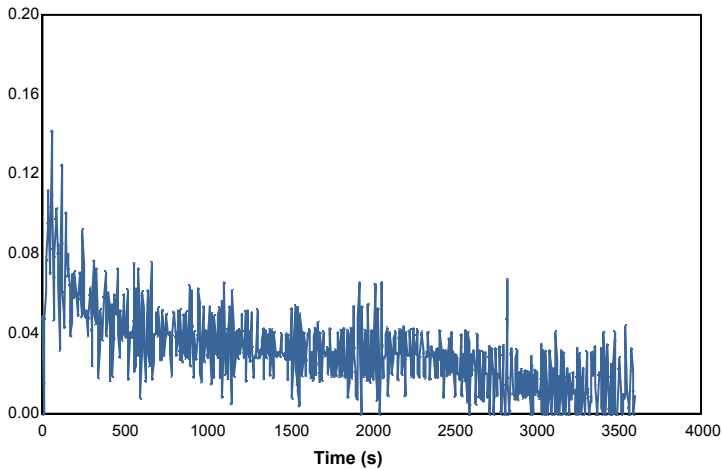
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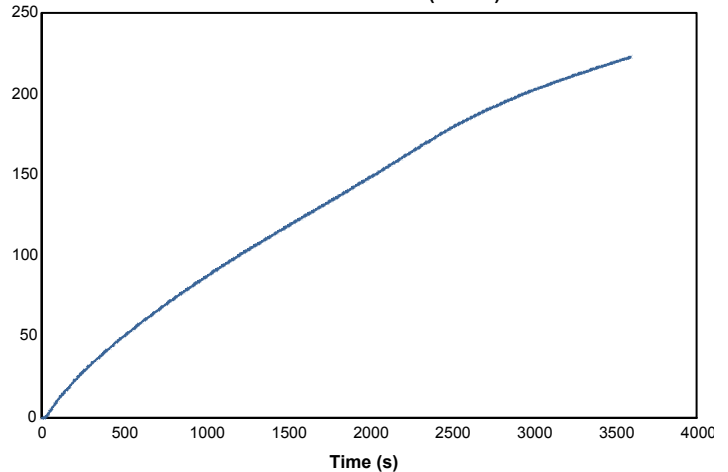
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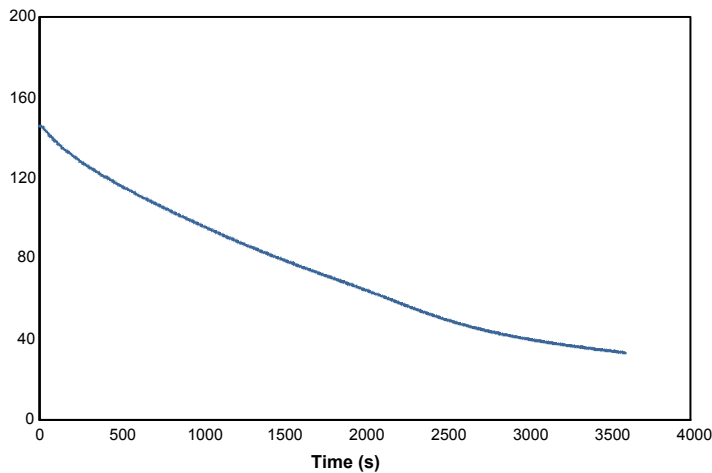
Mass loss rate (g/s)



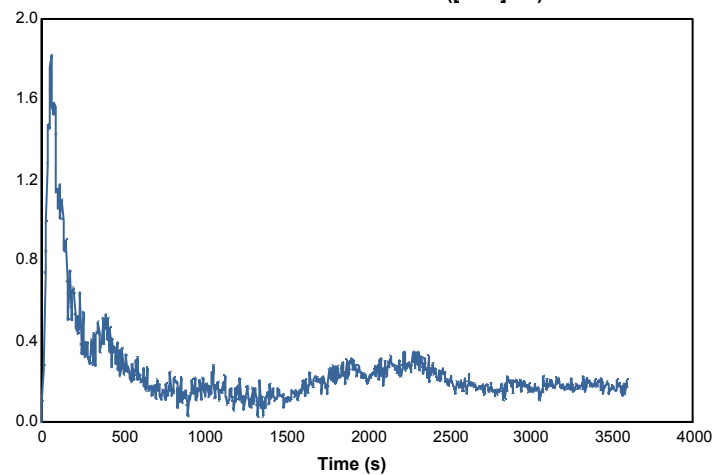
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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