

# 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 :** Elton Group  
1-5 Brough Street  
Springvale VIC 3171

**Test Number :** 18-002404  
**Issue Date :** 18/06/2018  
**Print Date :** 19/06/2018

**Sample Description** Clients Ref : "Woodwall (Real timber wallpaper)"  
Wall paper  
Colour : Timber  
End Use : Wall paper  
Nominal Composition : Timber veneer/paper/metal foil/glue barrier/paper  
Nominal Mass per Unit Area/Density : 384g/m<sup>2</sup>  
Nominal Thickness : 0.45mm

### 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	fti		
Average Heat Release Rate	fti	fti	fti	fti	kW/m <sup>2</sup>	
Average Specific extinction area	75.5	69.4	32.9	59.3	m <sup>2</sup> /kg	

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

Test orientation : Horizontal

	Specimen				Mean	
	1	2	3	fti		
Irradiance	50	50	50	50	kW/m <sup>2</sup>	
Exhaust flow rate	24	24	24	24	L/sec	
Time to sustained flaming	fti	fti	fti	fti	sec	
Test duration	600	600	600	600	sec	

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Initial thickness	7.5	7.5	7.5	7.5	mm
Initial mass	90.7	85.7	90.1	88.8	g
Mass remaining	76.9	71.8	70.6	73.1	g
Mass percentage pyrolysed	15.2	16.2	21.6	17.7	%
Mass loss	13.8	13.9	19.5	15.7	g
Average rate of mass loss	2.8	2.9	3.9	3.2	g/m <sup>2</sup> .s

fti = failed to ignite

This product has a release rate of less than 50 kW/m<sup>2</sup>. The formulas given in the Building Code of Australia do not allow the calculation of a group in these circumstances. A product with very low heat release rates like this product is classified as a group 1 material or better according to advice from the Australian Building Codes Board.

Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2(i).

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Samples were adhered to a substrate of 6mm thick cement sheet using Professional Ultra Clear Pro 880 adhesive prior to testing

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.

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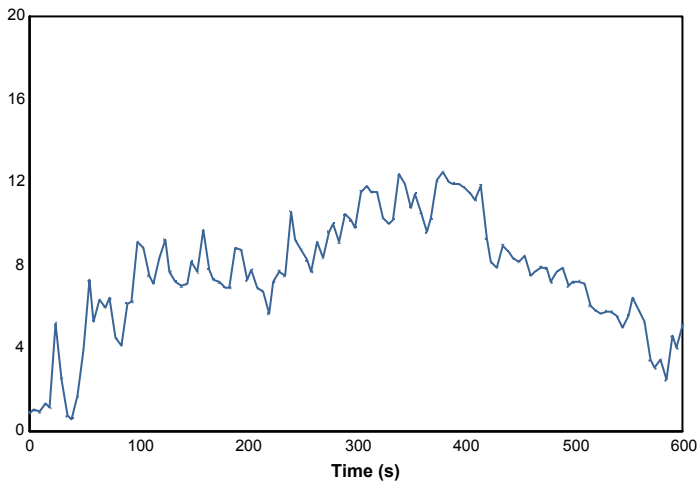
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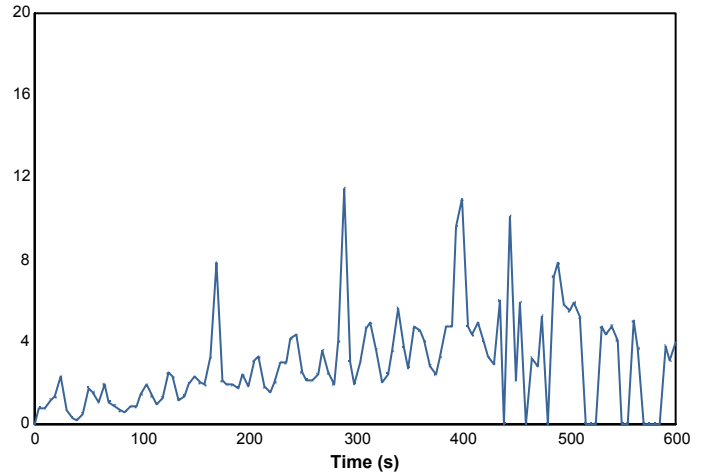
**Test Number :** 18-002404  
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**Specimen :** 1

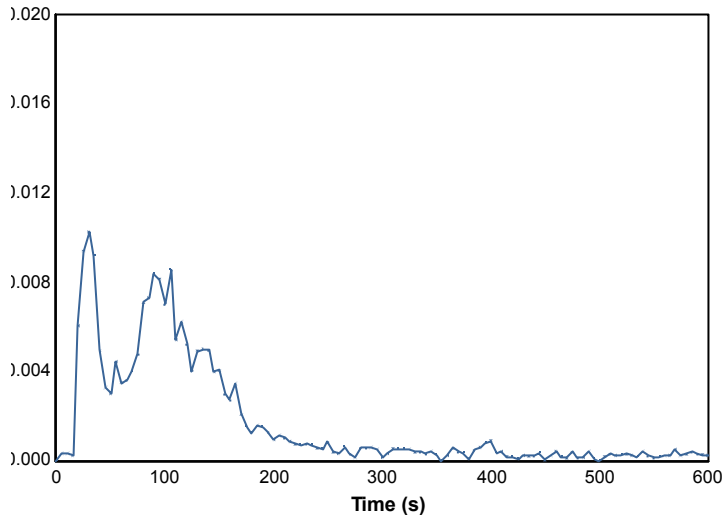
Heat release rate (kW/m<sup>2</sup>)



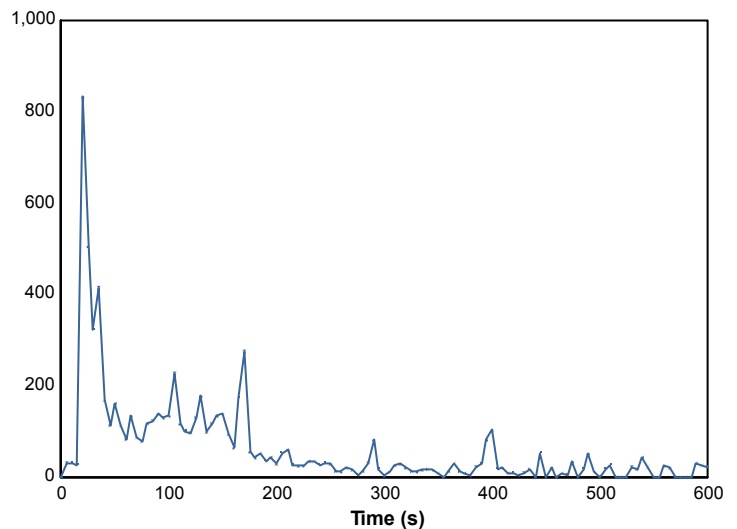
Effective heat of combustion (MJ/kg)



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



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



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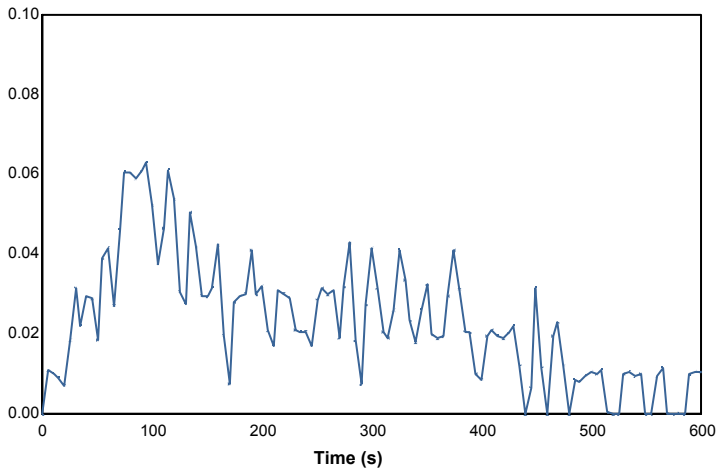
Phone (03) 9371 2400 Fax (03) 9371 2499

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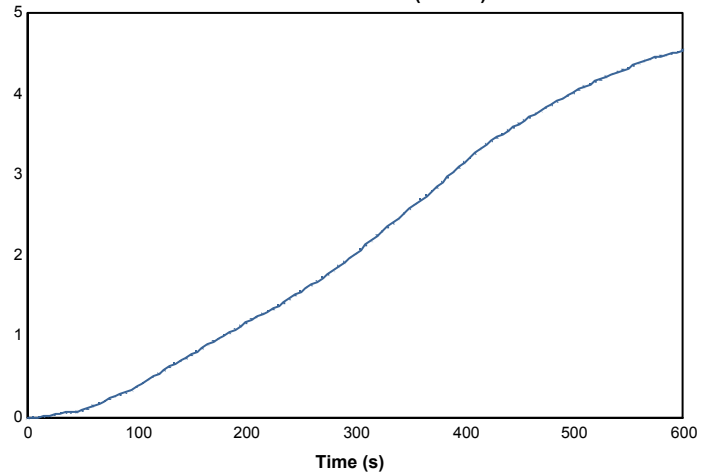
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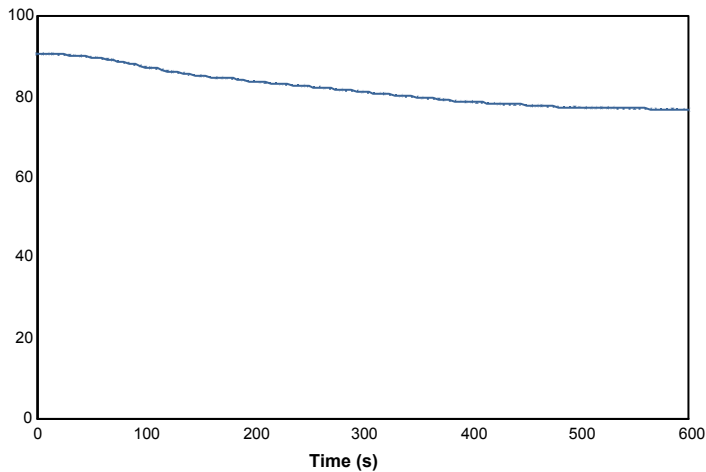
Mass loss rate (g/s)



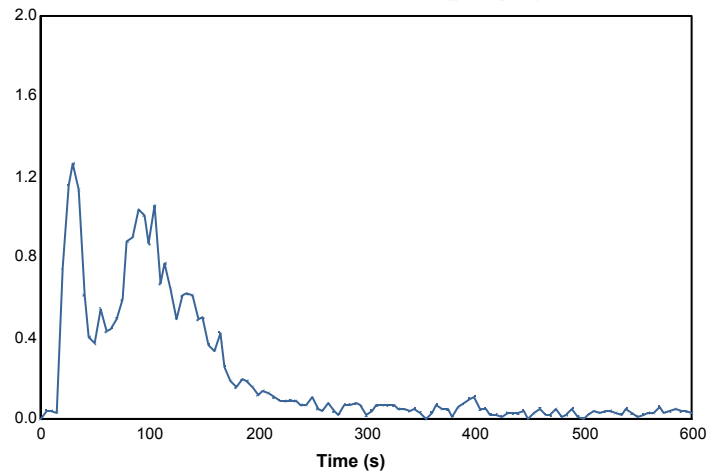
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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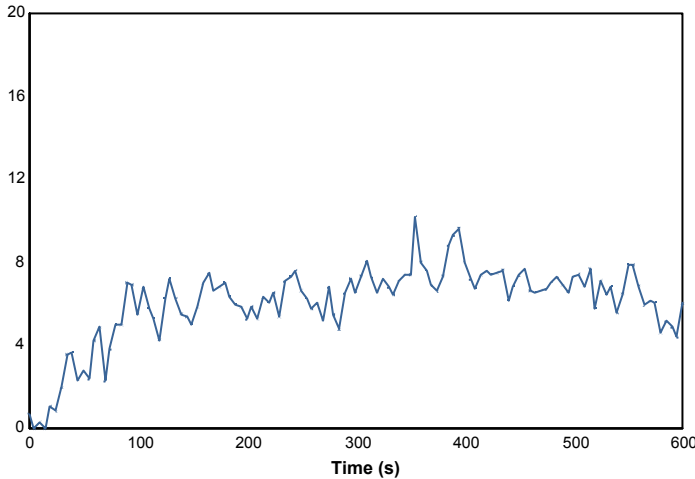
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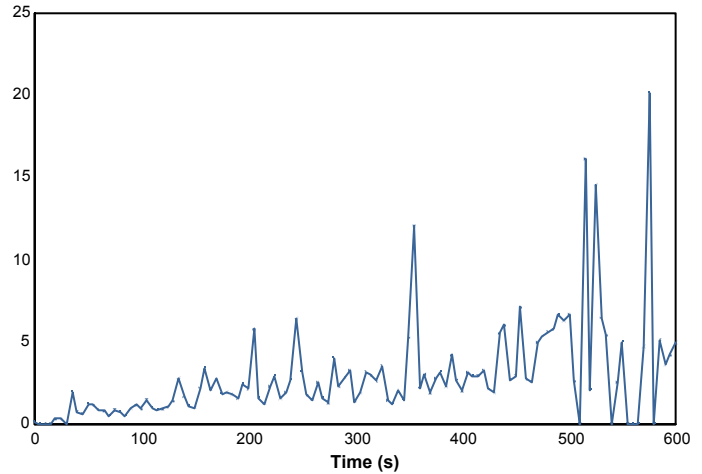
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**Issue Date :** 18/06/2018  
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**Specimen :** 2

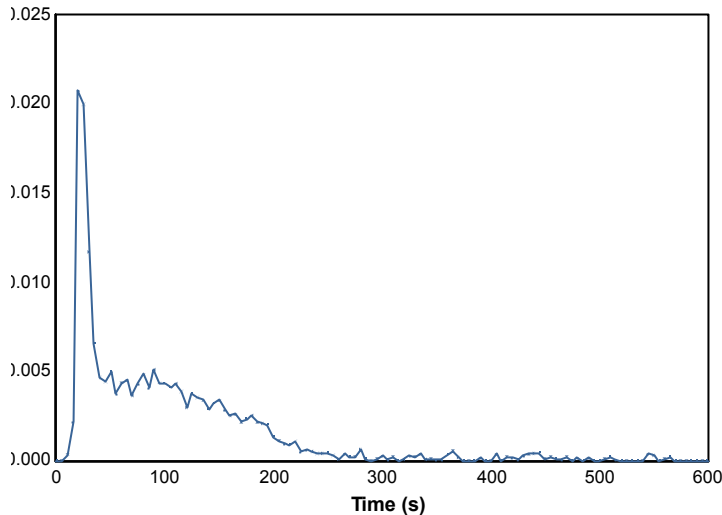
Heat release rate (kW/m<sup>2</sup>)



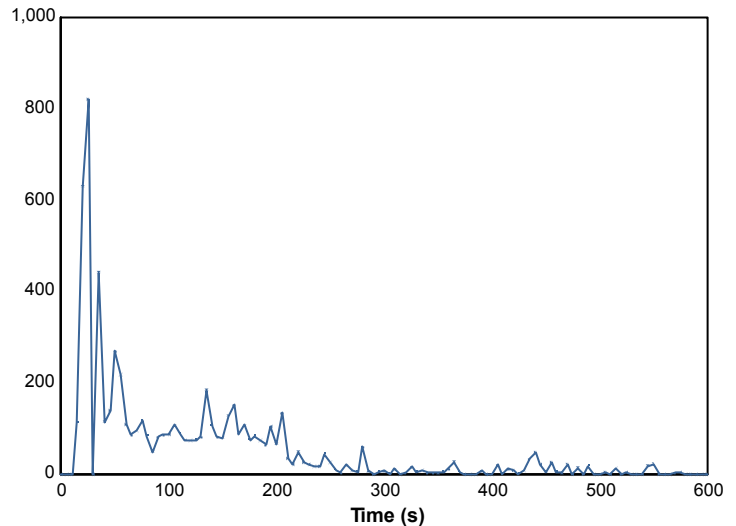
Effective heat of combustion (MJ/kg)



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



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



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0204/11/06

APPROVED SIGNATORY

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

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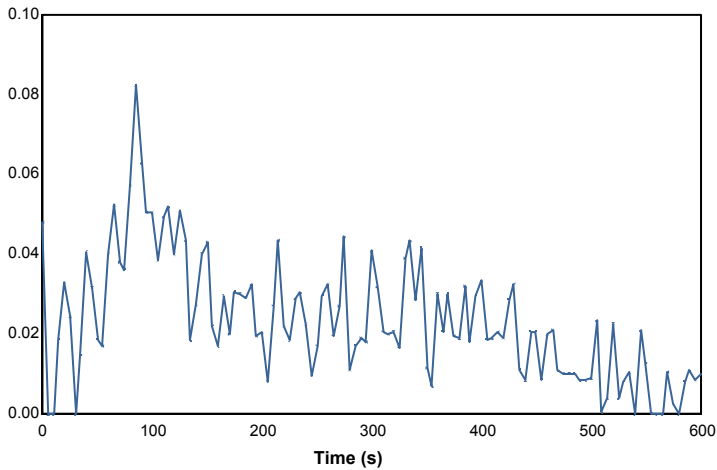
Phone (03) 9371 2400 Fax (03) 9371 2499

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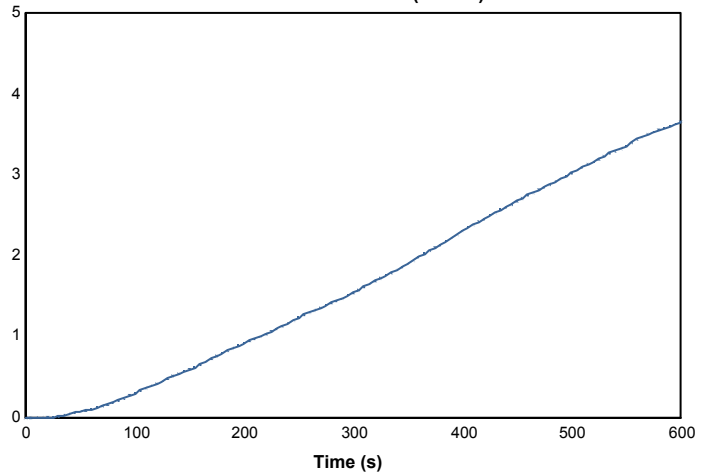
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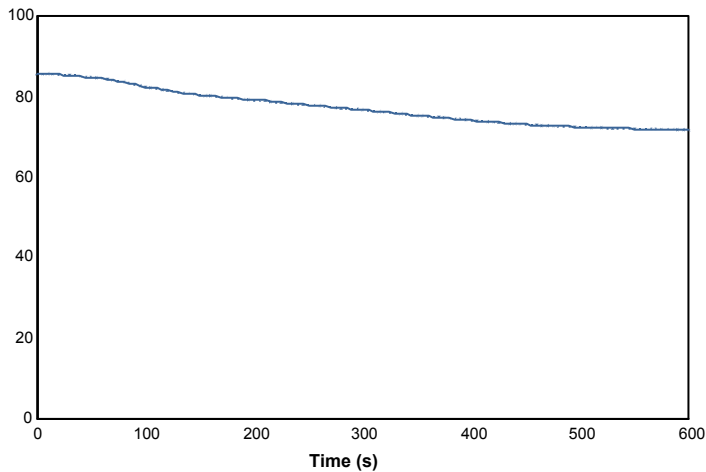
Mass loss rate (g/s)



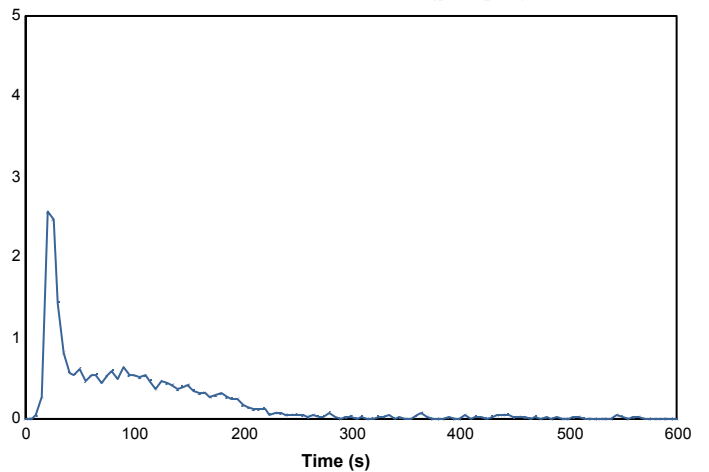
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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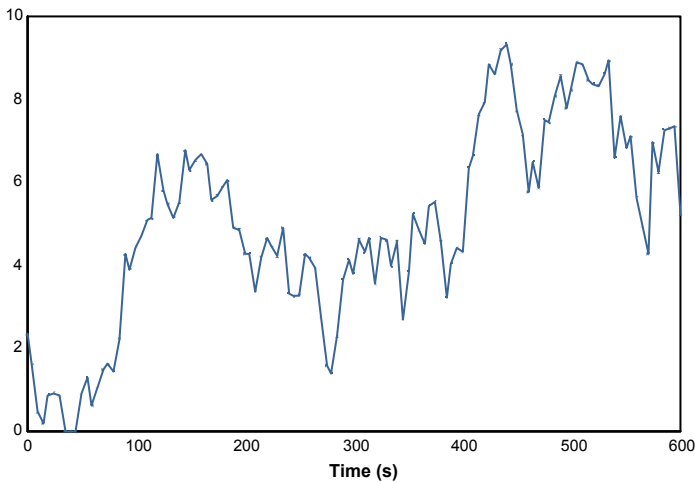
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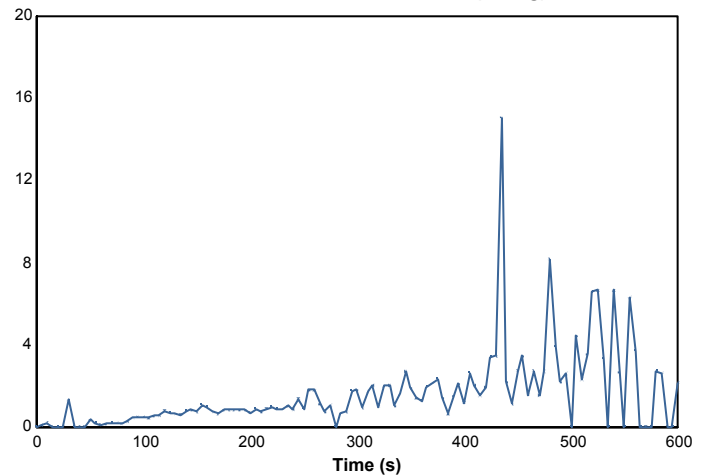
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**Specimen :** 3

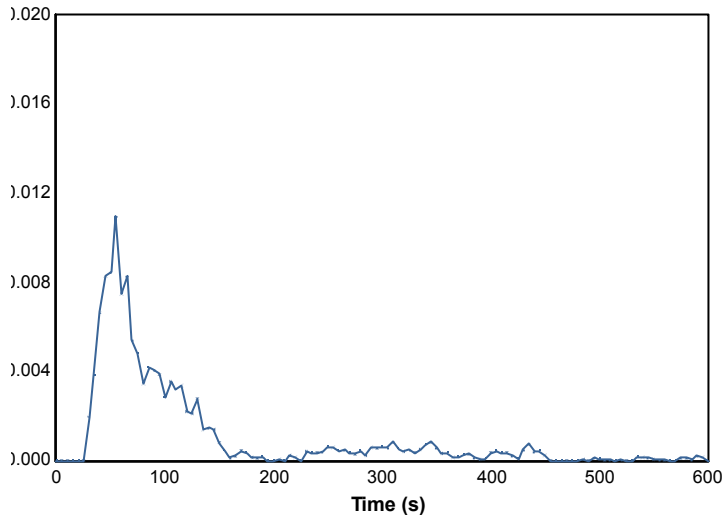
Heat release rate (kW/m<sup>2</sup>)



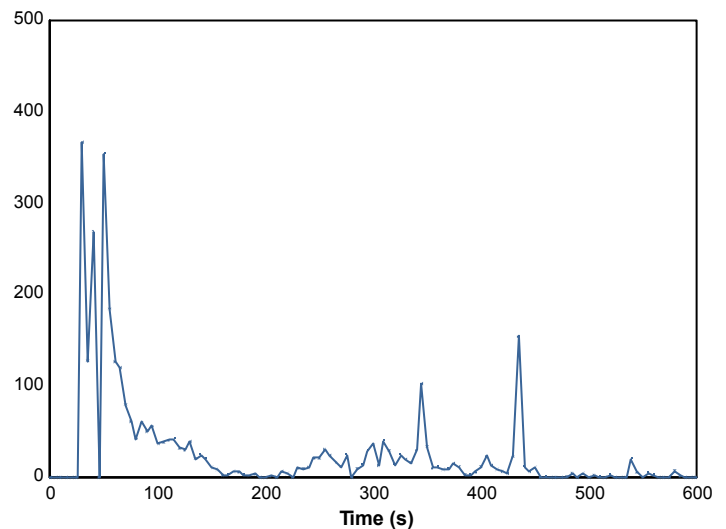
Effective heat of combustion (MJ/kg)



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



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



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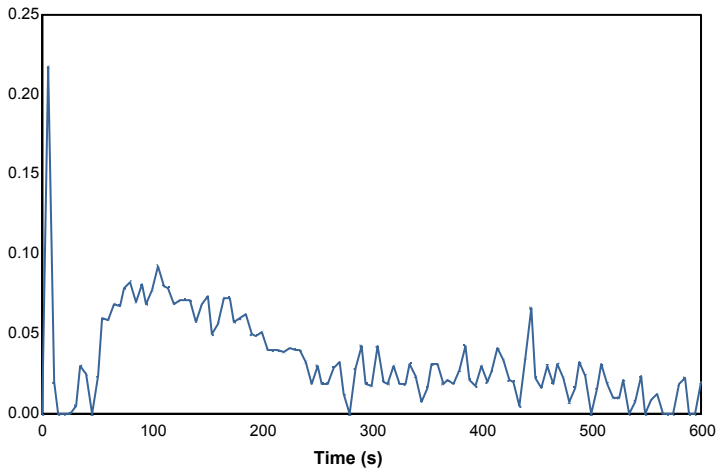
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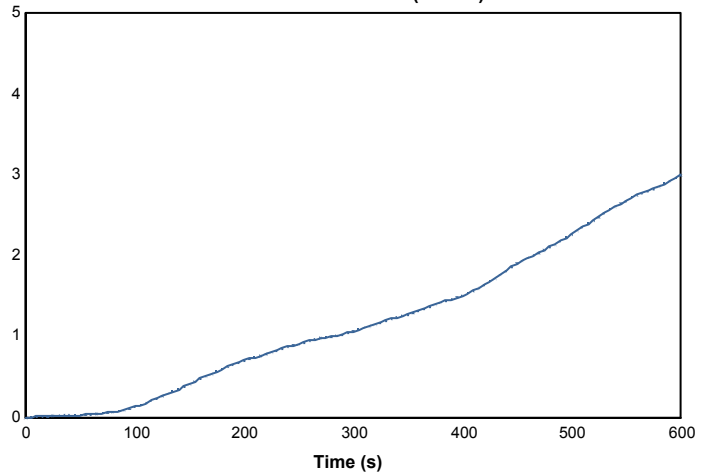
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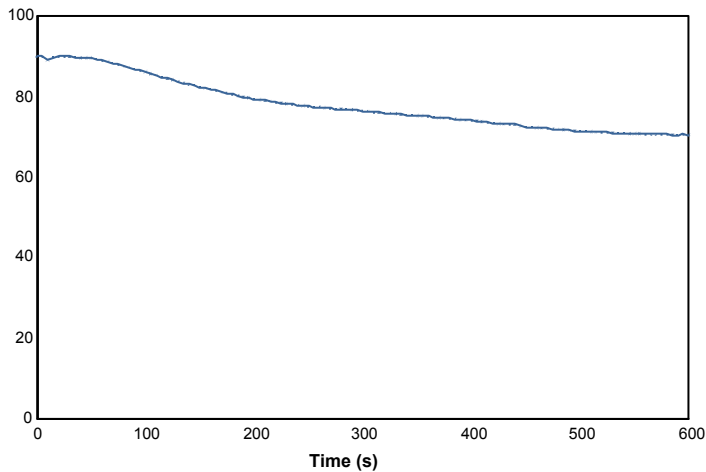
Mass loss rate (g/s)



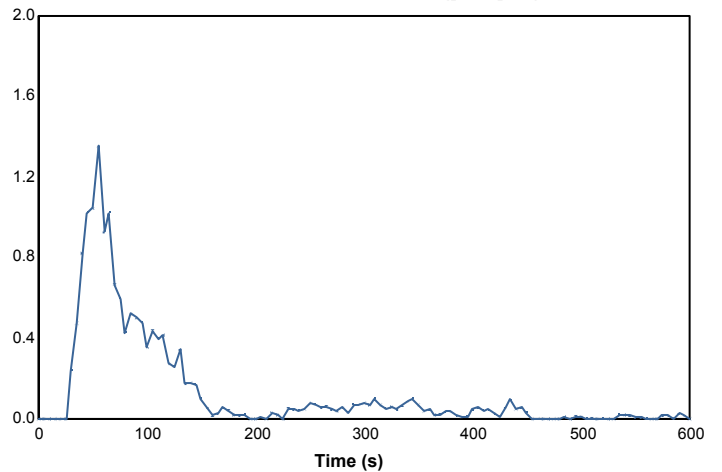
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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