

# 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

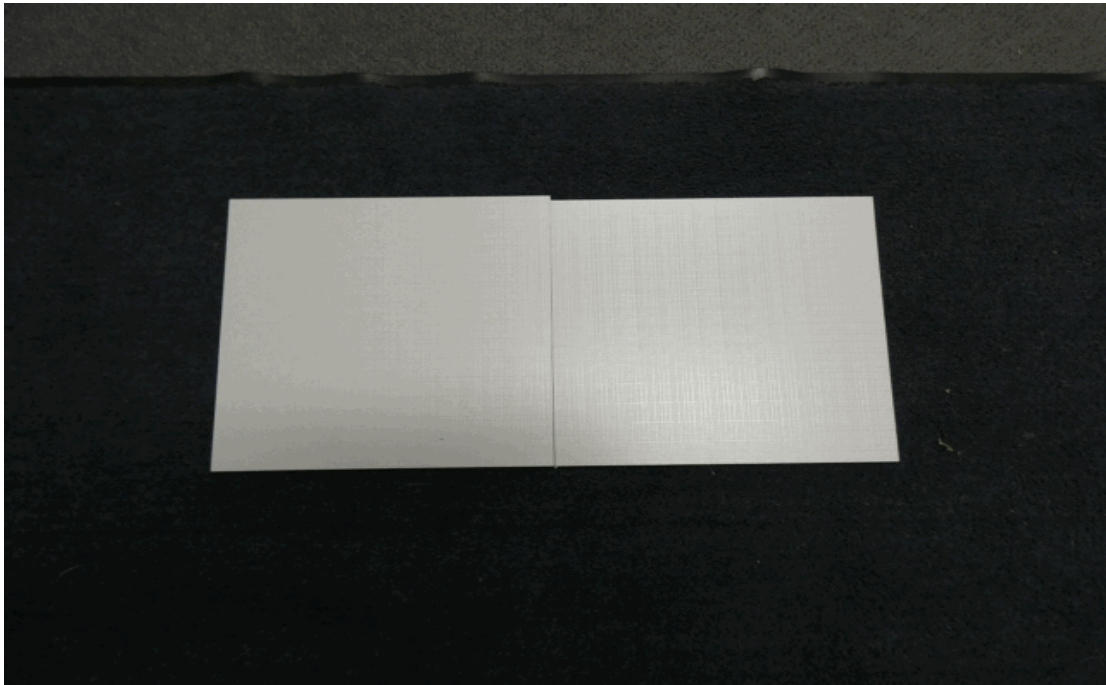
## TEST REPORT

**Client :** Forest One  
601 Victoria Street  
Abbotsford VIC 3067

**Test Number :** 22-003331  
**Issue Date :** 29/08/2022  
**Print Date :** 31/08/2022

### Sample Description

Clients Ref : "Polyester plywood 3.6mm"  
Plywood with textured polyester face  
Colour : Timber  
End Use : Wall linings/Portable Building  
Nominal Composition : Meranti/Melapi  
Nominal Mass per Unit Area/Density : 580-650kg/m3  
Nominal Thickness : 3.6mm



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Chris Campbell  
APPROVED SIGNATORY



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

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

Date Tested 29-08-2022  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	62.7	71.7	60.9	65.1	kW/m <sup>2</sup>
Average Specific extinction area	60.7	54.7	52.0	55.8	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	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	9	8	9	9	sec
Test duration	559	335	519	471	sec
Peak heat release after ignition	159.4	173.7	163.9	165.6	kW/m <sup>2</sup>
Average heat at 60 s	113.4	118.1	102.7	111.4	kW/m <sup>2</sup>
Average heat at 180 s	113.2	105.5	105.8	108.2	kW/m <sup>2</sup>
Average heat at 300 s	86.6	75.4	80.9	80.9	kW/m <sup>2</sup>
Total heat released	34.3	23.4	30.9	29.6	MJ/m <sup>2</sup>
Average effective heat of combustion	10.3	9.6	9.9	10.0	MJ/kg
Initial thickness	9.6	9.6	9.6	9.6	mm
Initial mass	113.3	112.5	111.9	112.6	g
Mass remaining	86.6	92.9	86.6	88.7	g
Mass percentage pyrolysed	23.6	17.5	22.6	21.2	%

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Mass loss	3.3	2.4	3.1	3.0	kg/m <sup>2</sup>
Average rate of mass loss	6.0	7.4	6.1	6.5	g/m <sup>2</sup> .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

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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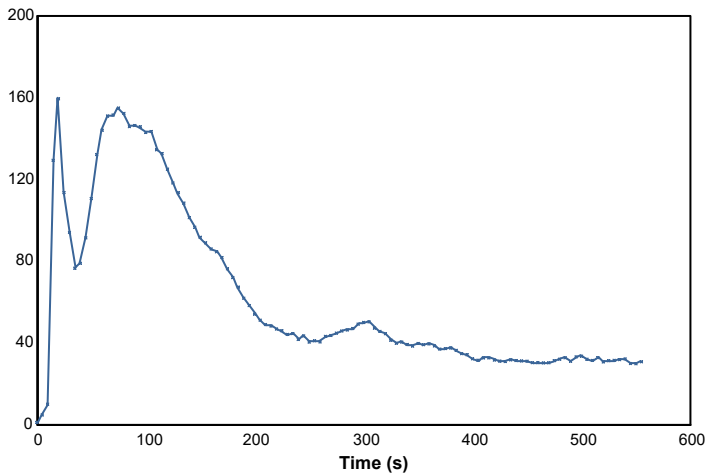
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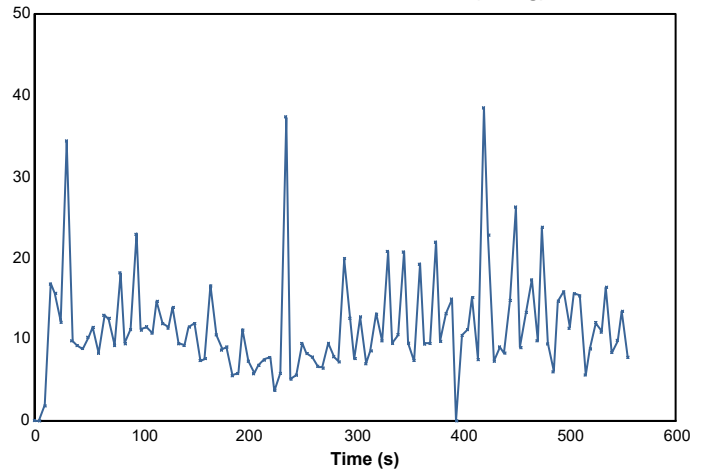
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**Specimen :** 1

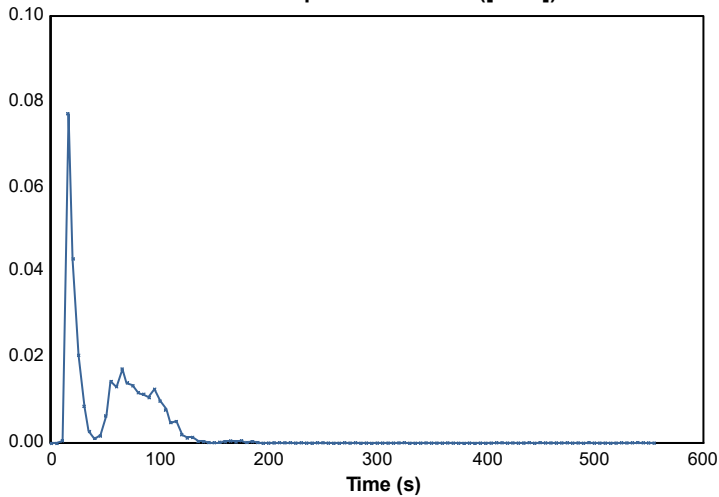
**Heat release rate (kW/m<sup>2</sup>)**



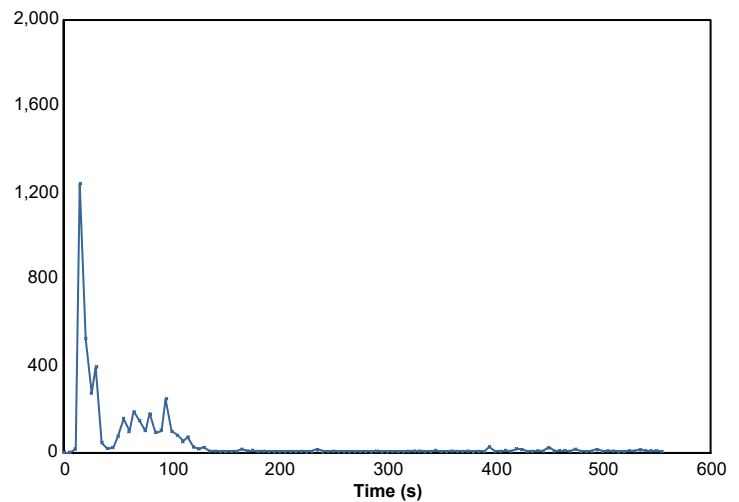
**Effective heat of combustion (MJ/kg)**



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



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



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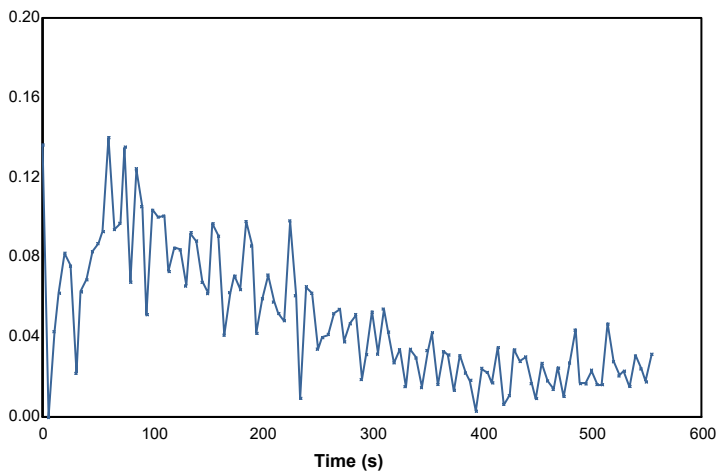
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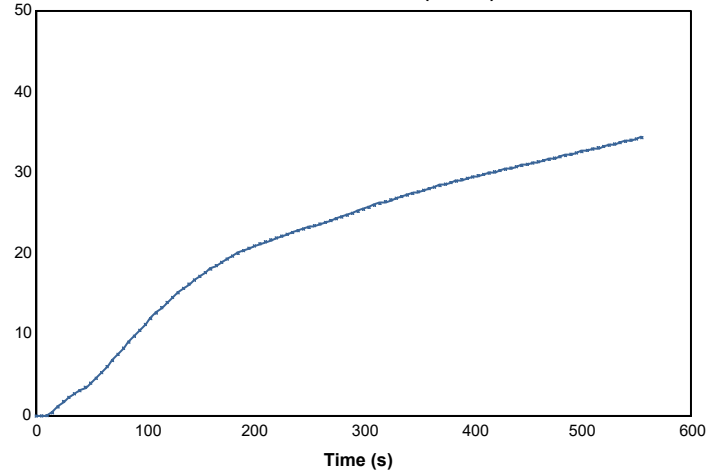
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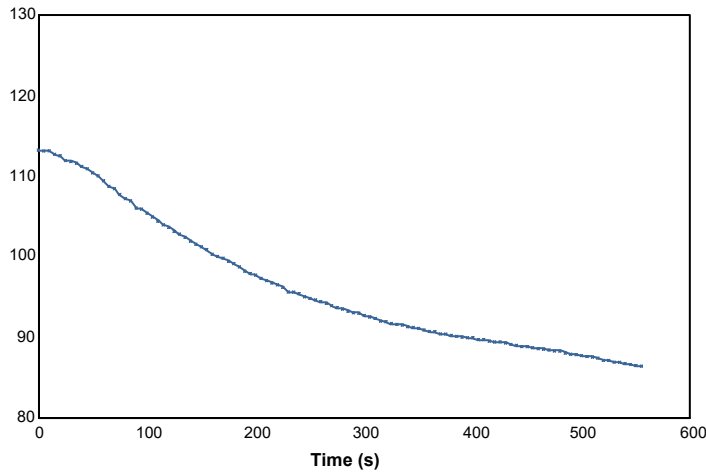
Mass loss rate (g/s)



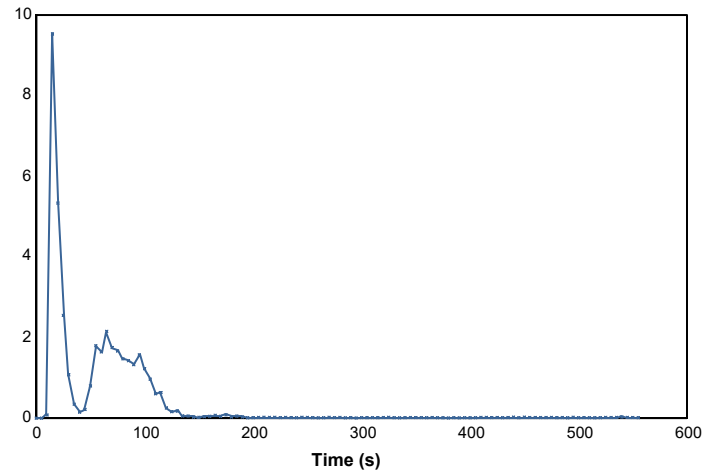
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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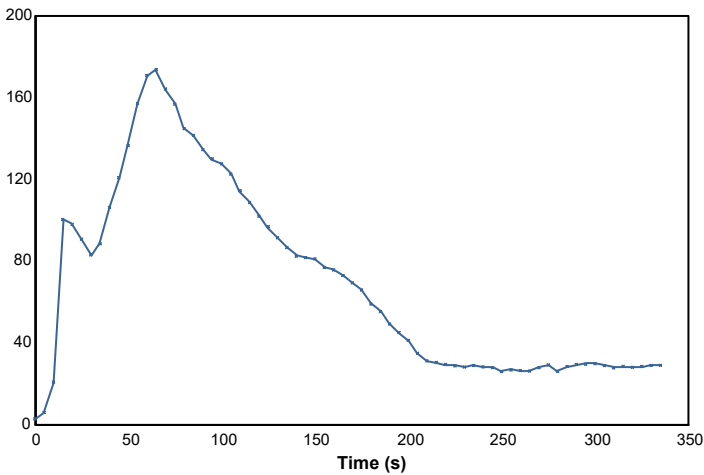
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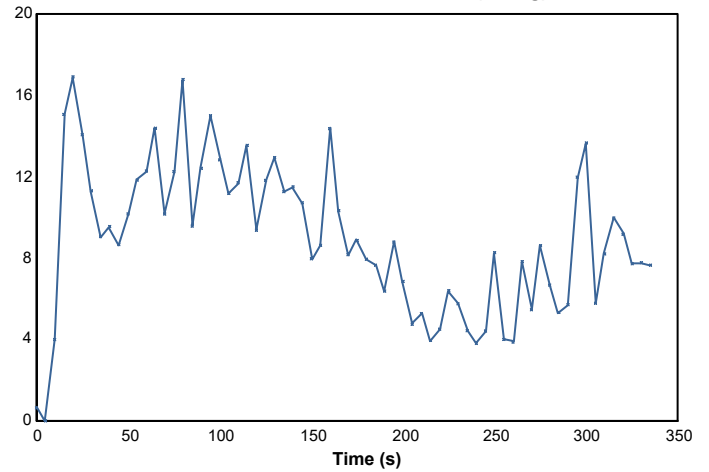
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**Specimen :** 2

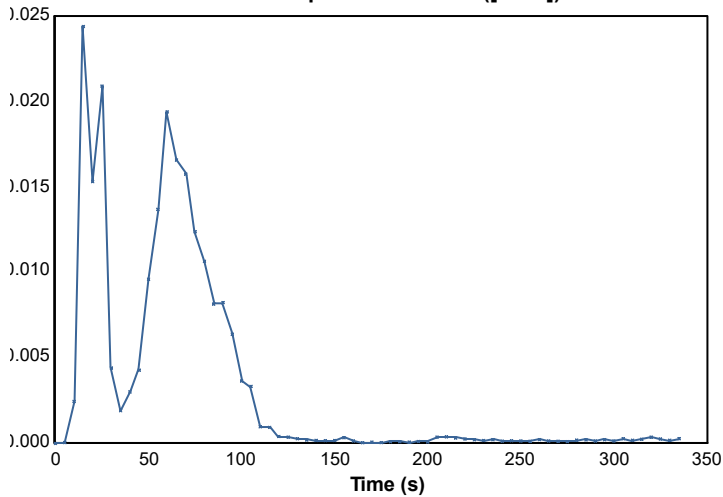
**Heat release rate (kW/m<sup>2</sup>)**



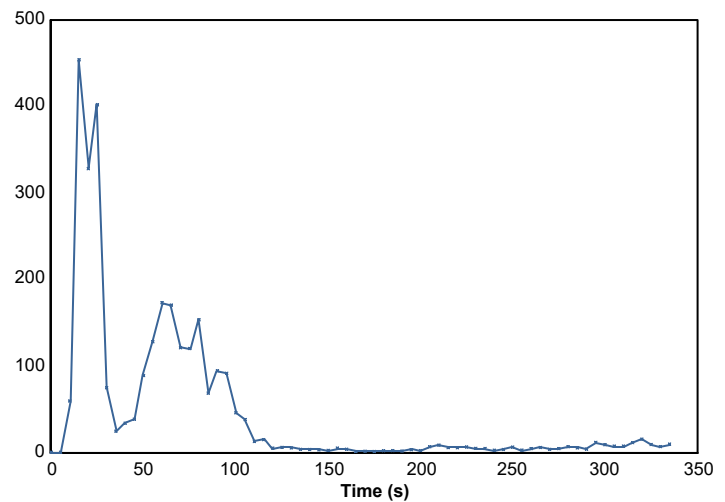
**Effective heat of combustion (MJ/kg)**



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



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



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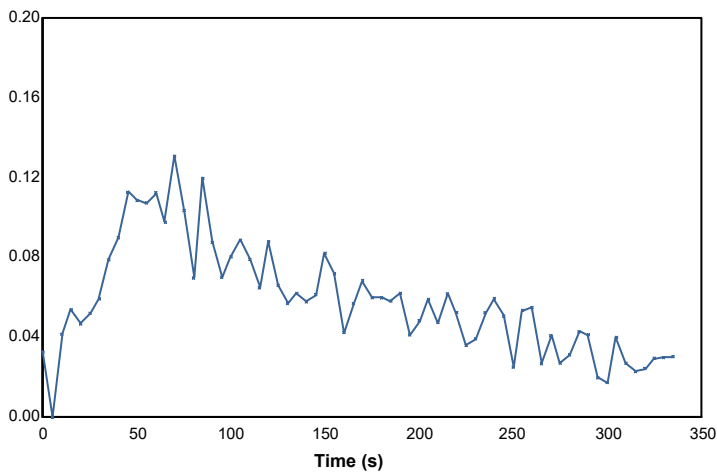
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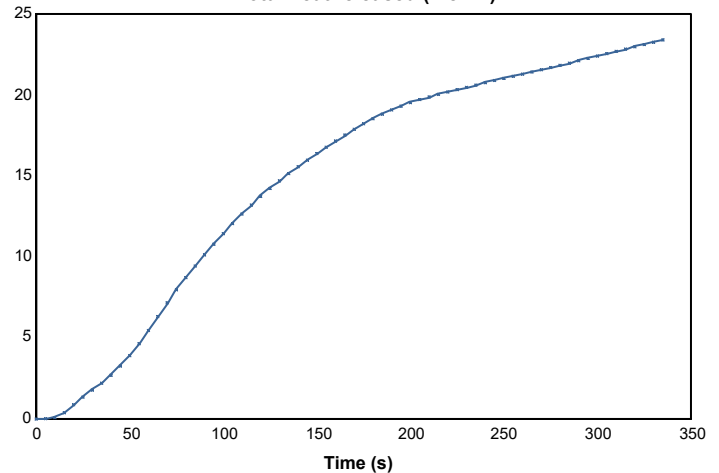
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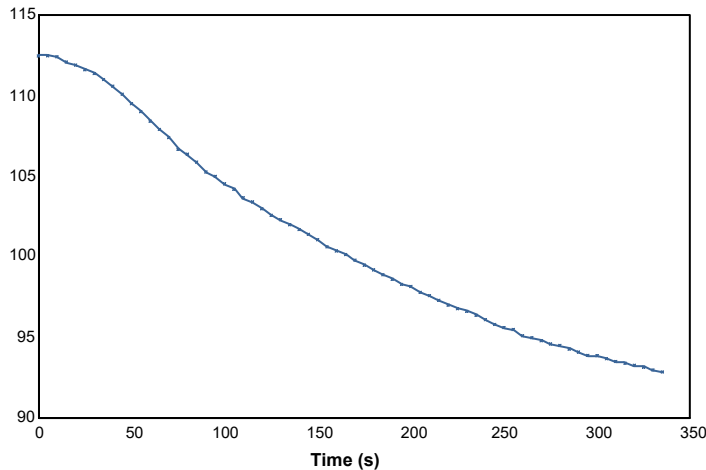
Mass loss rate (g/s)



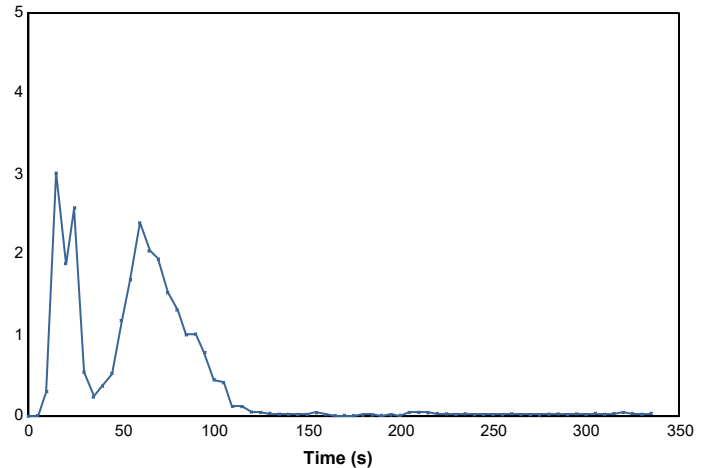
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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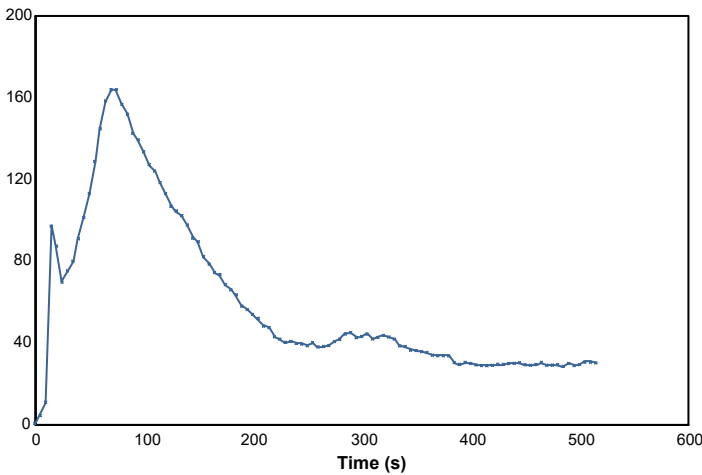
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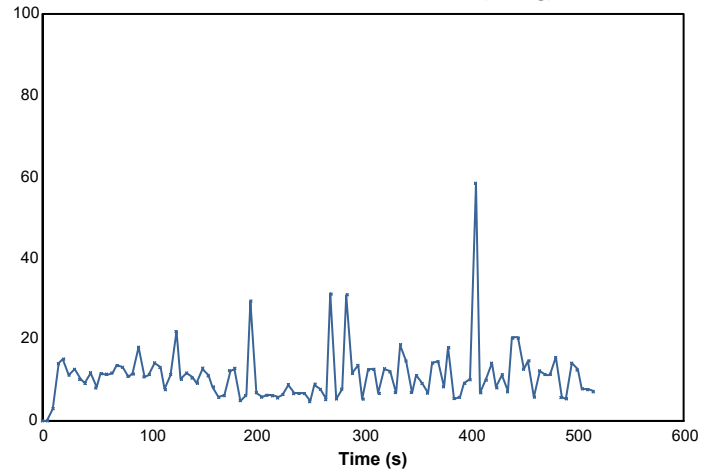
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**Specimen :** 3

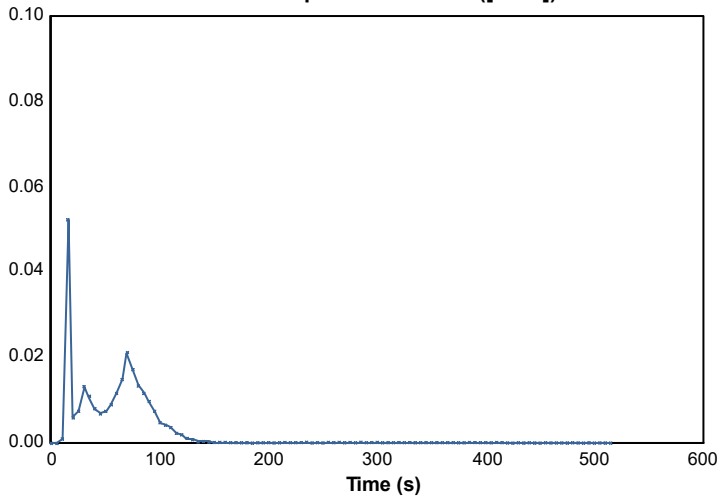
**Heat release rate (kW/m<sup>2</sup>)**



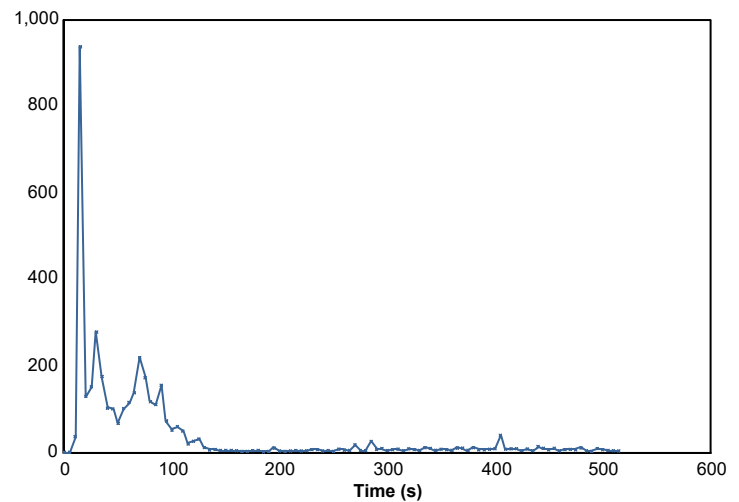
**Effective heat of combustion (MJ/kg)**



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



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



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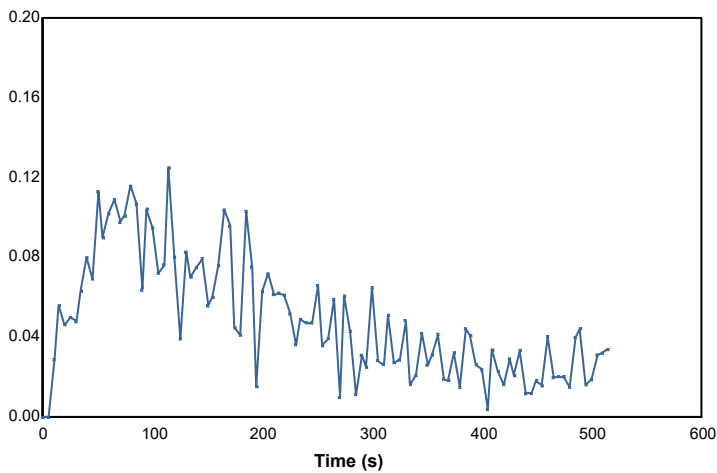
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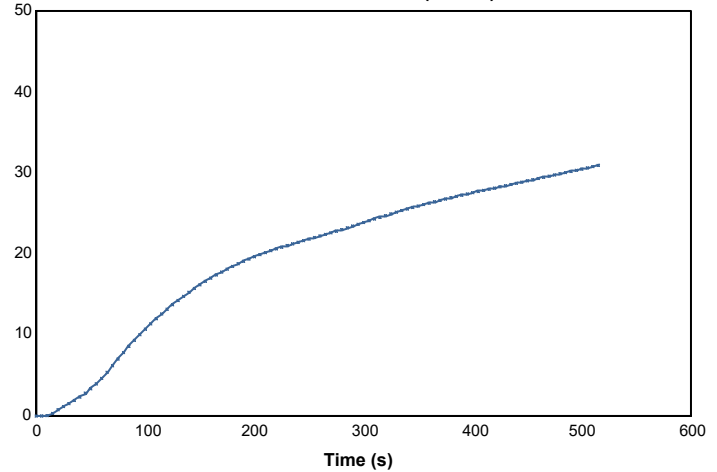
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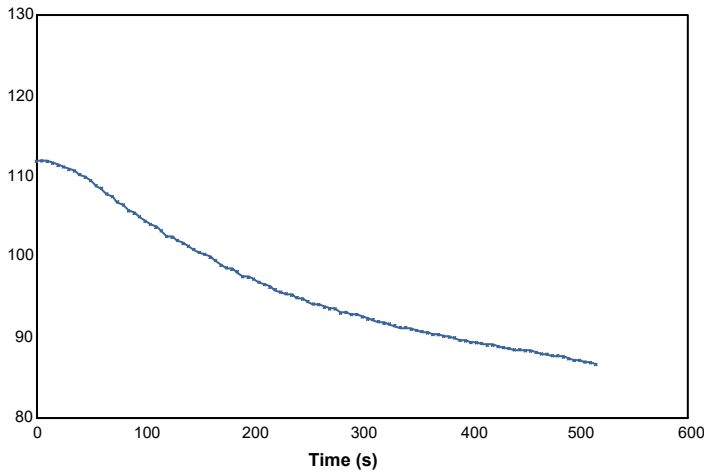
Mass loss rate (g/s)



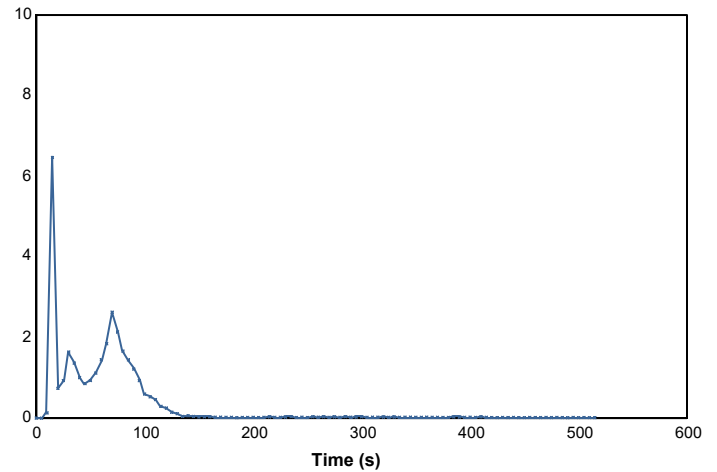
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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