

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

**Test Number :** 20-000245  
**Issue Date :** 03/03/2020  
**Print Date :** 3/03/2020

**Sample Description** Clients Ref : "Lignapal"  
Prefinished timber veneer on MDF  
End Use : Internal joinery/panelling  
Nominal Mass per Unit Area/Density : 16.7kg/m<sup>2</sup>  
Nominal Thickness : 20mm

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

Date Tested 03/03/2020  
Operator AWTA Test Operator 3  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	55.1	65.1	60.3	60.2	kW/m <sup>2</sup>
Average Specific extinction area	17.3	22.7	16.1	18.7	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	51	38	28	39	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	157.8	197.8	208.8	188.1	kW/m <sup>2</sup>
Average heat at 60 s	125.7	141.6	139.5	135.6	kW/m <sup>2</sup>
Average heat at 180 s	125.7	132.1	126.9	128.2	kW/m <sup>2</sup>
Average heat at 300 s	125.2	139.1	131.3	131.9	kW/m <sup>2</sup>
Total heat released	196.2	231.8	215.2	214.4	MJ/m <sup>2</sup>

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

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Average effective heat of combustion	11.7	13.5	12.6	12.6	MJ/kg
Initial thickness	20	20	20	20.0	mm
Initial mass	166.8	167.8	168.4	167.7	g
Mass at sustained flaming	165.8	167.8	168.2	167.3	g
Mass remaining	31.4	28.5	29.4	29.8	g
Mass percentage pyrolysed	81.2	83.0	82.5	82.2	%
Mass loss	16.7	17.2	17.2	17.0	kg/m <sup>2</sup>
Average rate of mass loss	4.7	4.8	4.8	4.8	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.

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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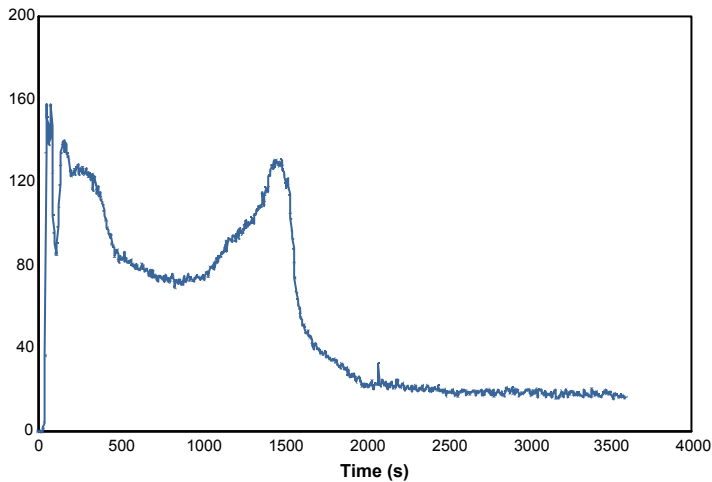
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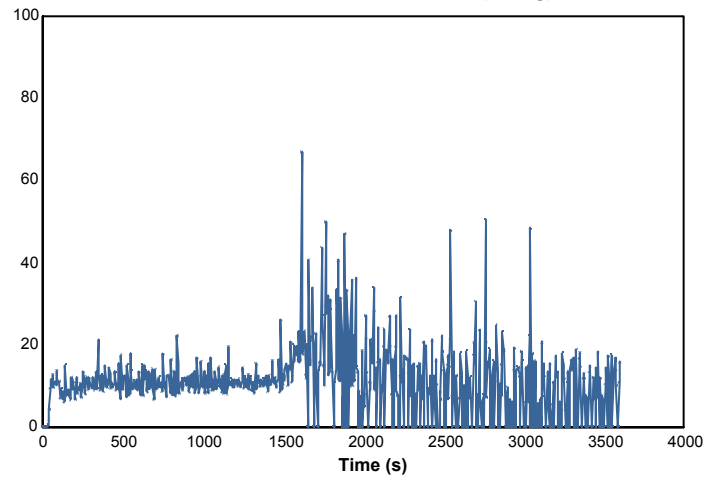
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**Issue Date :** 03/03/2020  
**Print Date :** 3/03/2020

**Specimen :** 1

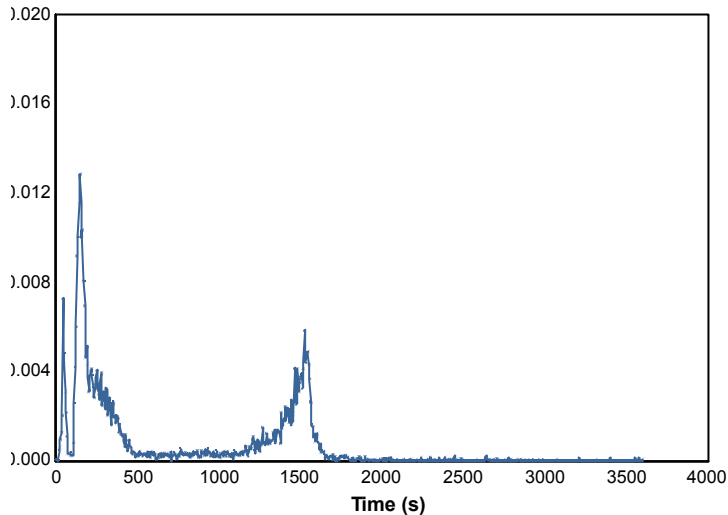
Heat release rate (kW/m<sup>2</sup>)



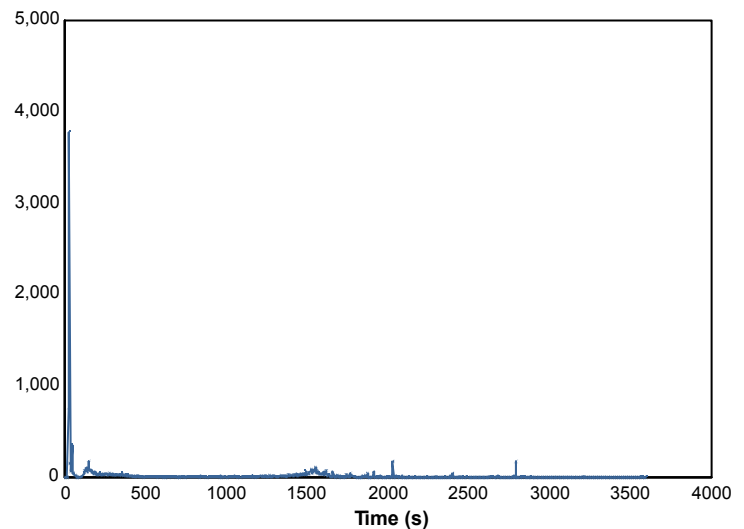
Effective heat of combustion (MJ/kg)



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



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



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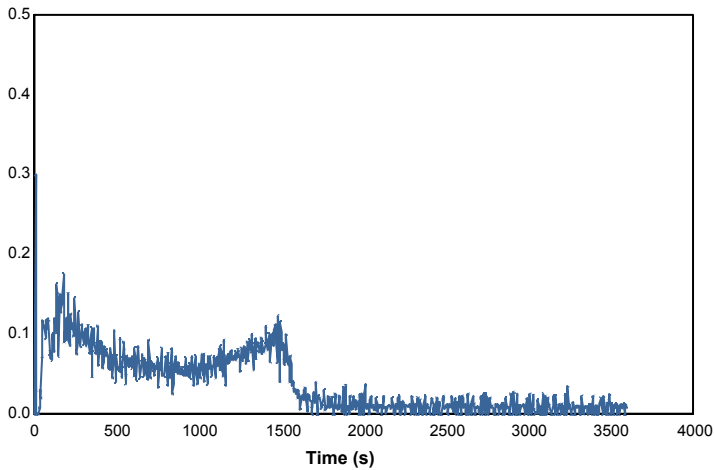
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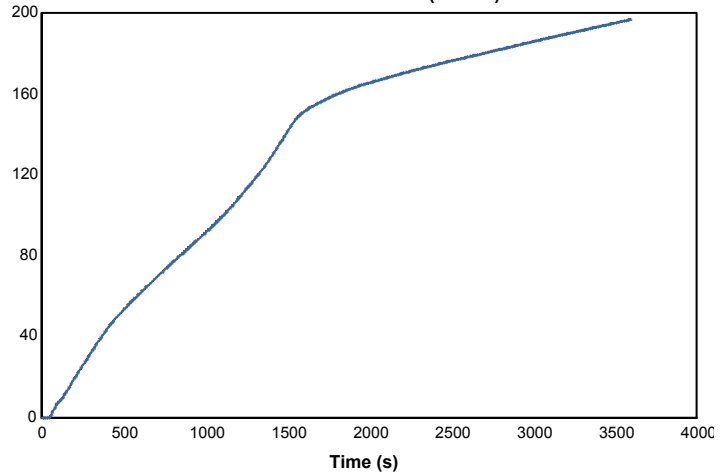
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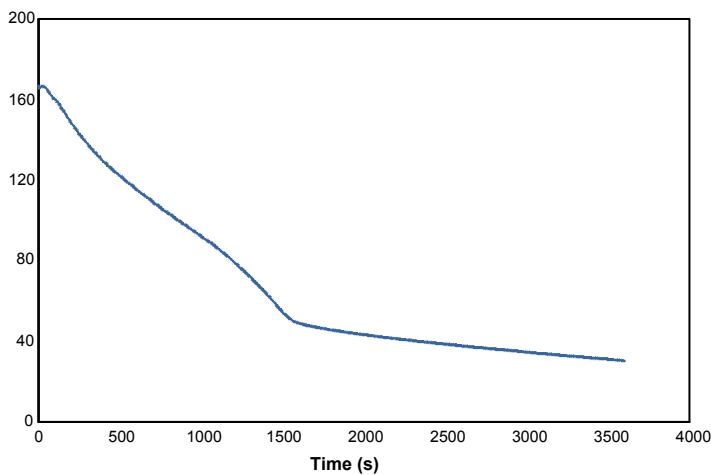
Mass loss rate (g/s)



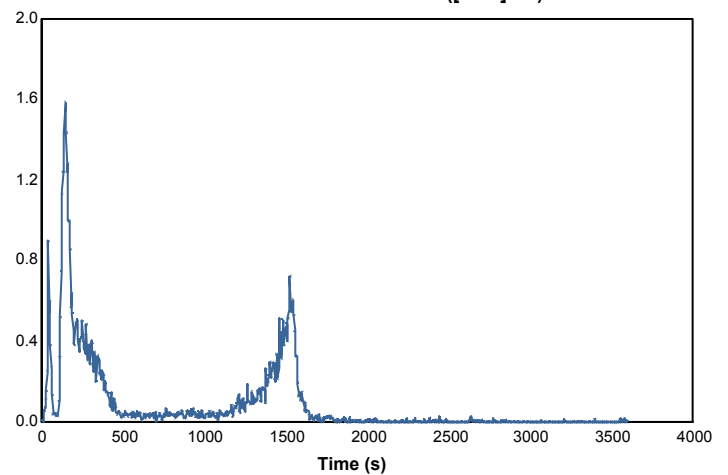
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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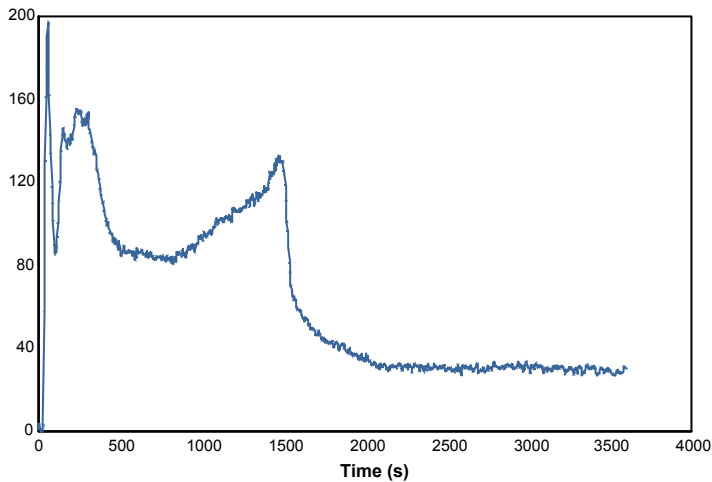
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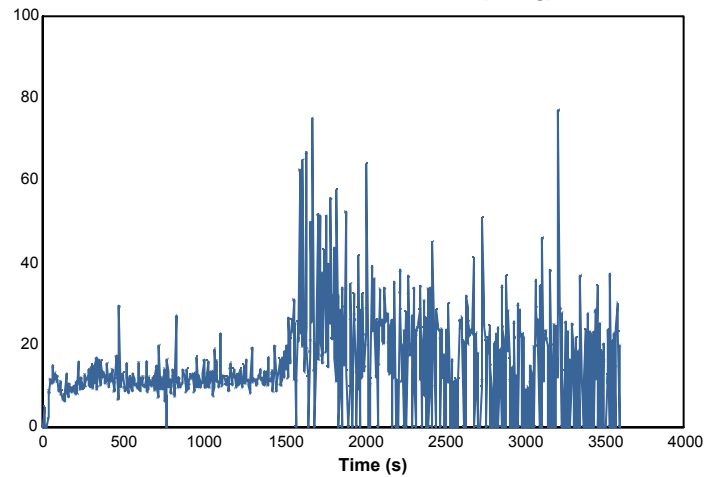
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**Specimen :** 2

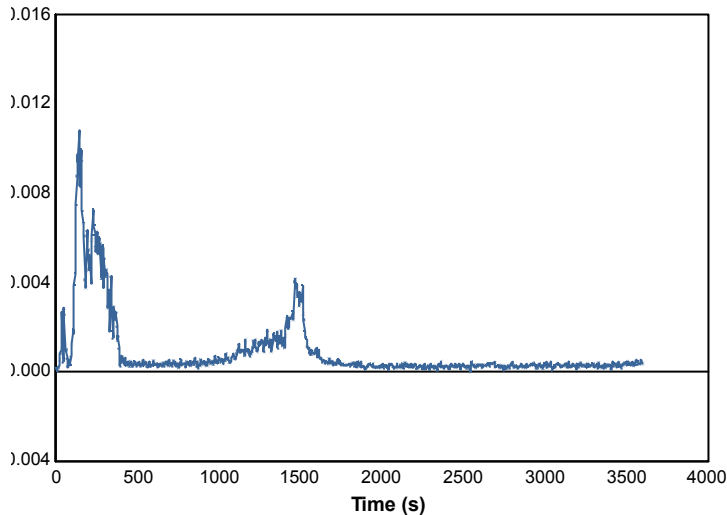
Heat release rate (kW/m<sup>2</sup>)



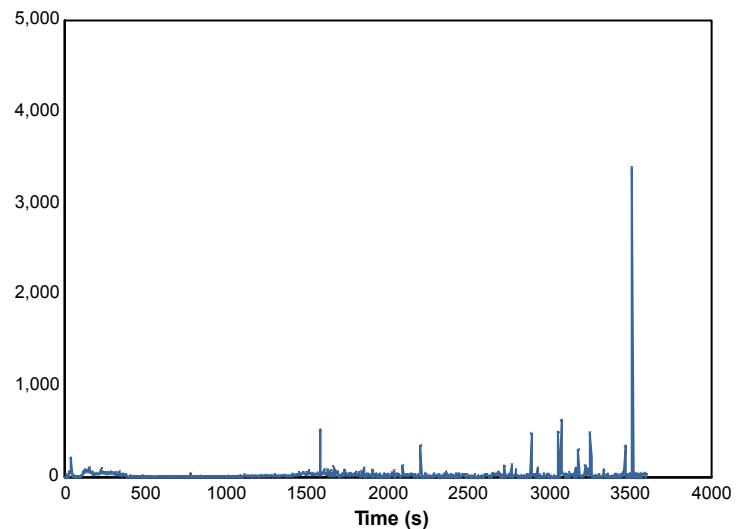
Effective heat of combustion (MJ/kg)



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



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



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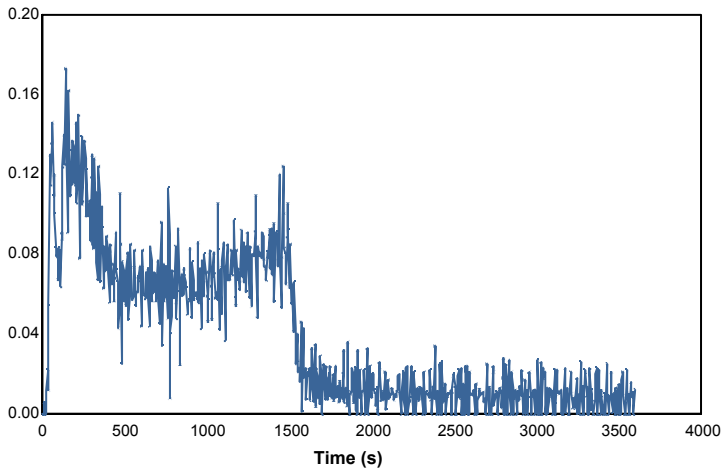
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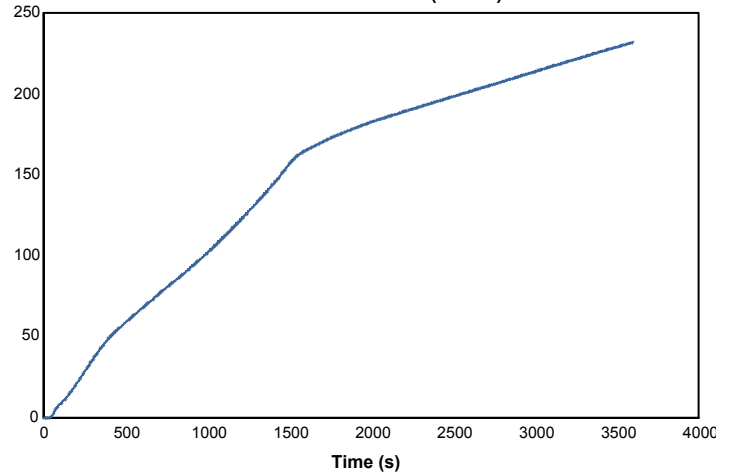
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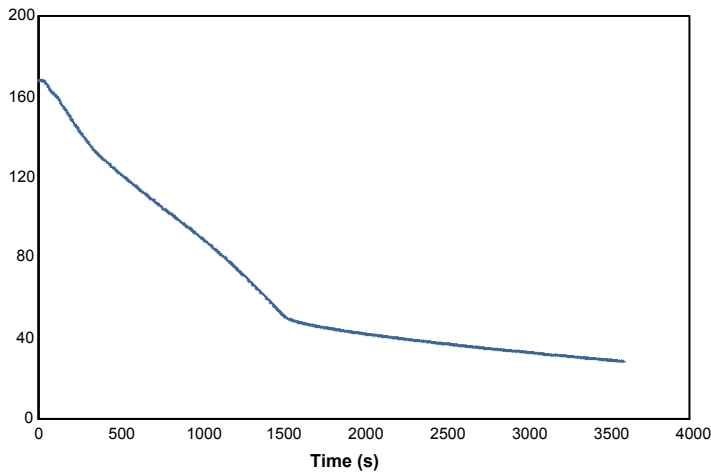
Mass loss rate (g/s)



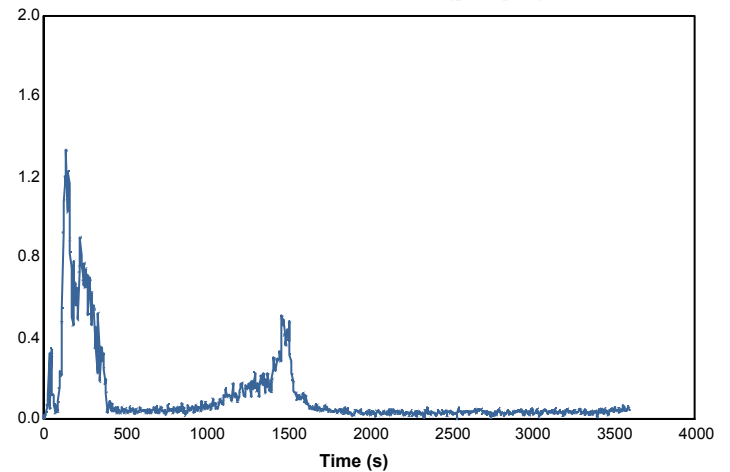
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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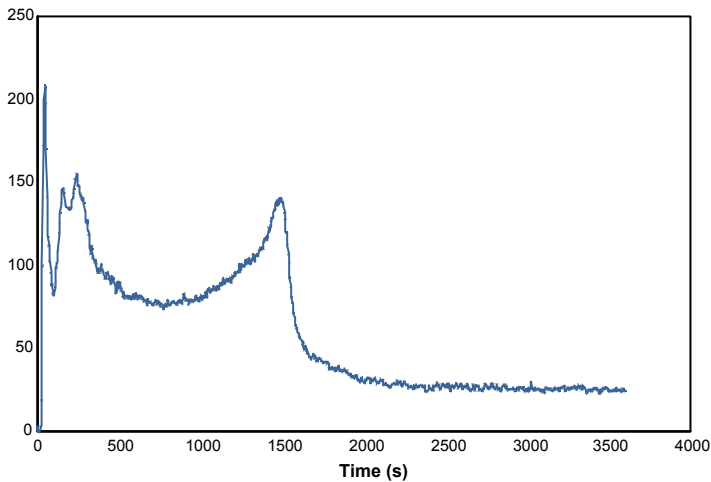
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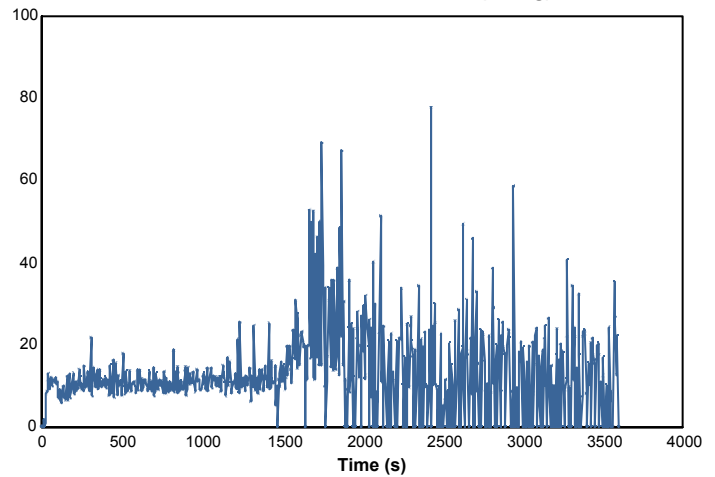
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**Specimen :** 3

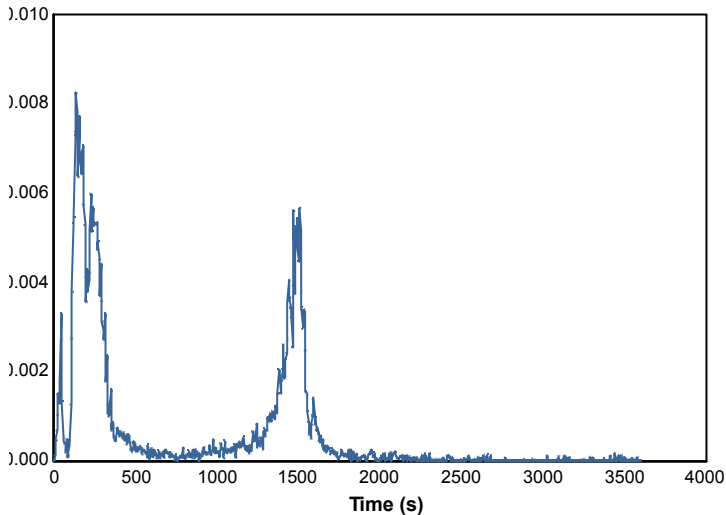
Heat release rate (kW/m<sup>2</sup>)



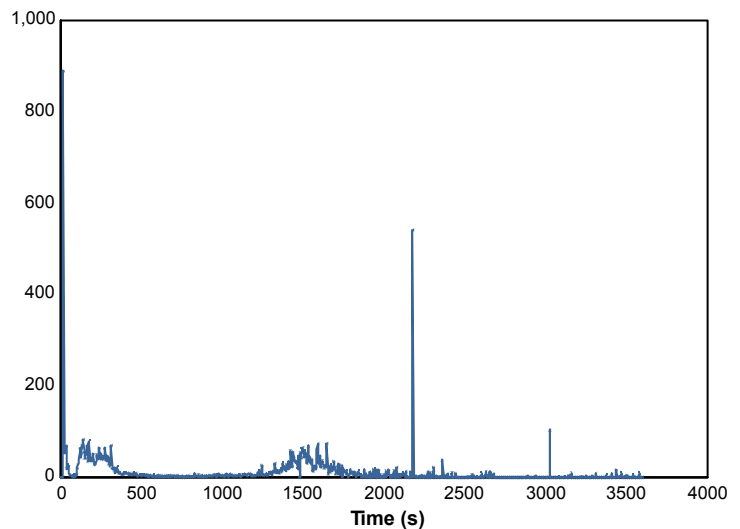
Effective heat of combustion (MJ/kg)



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



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



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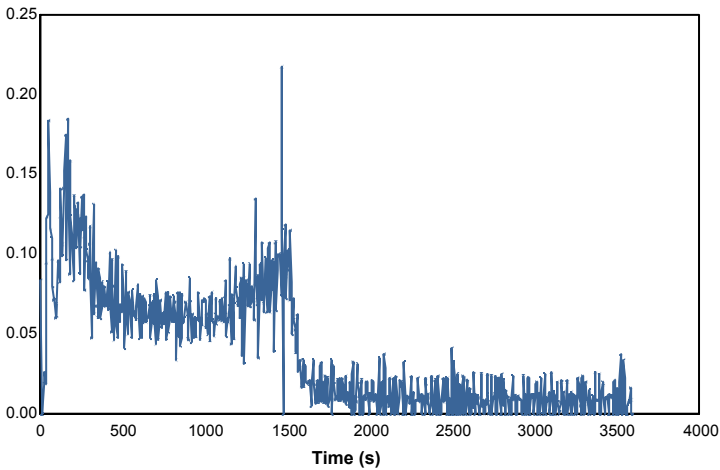
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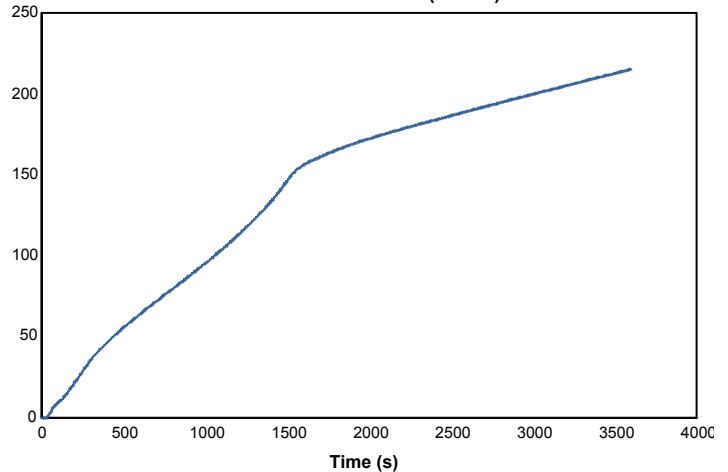
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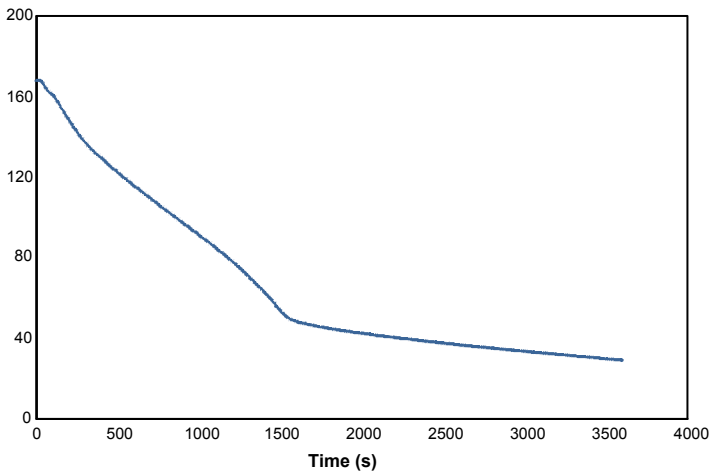
**Mass loss rate (g/s)**



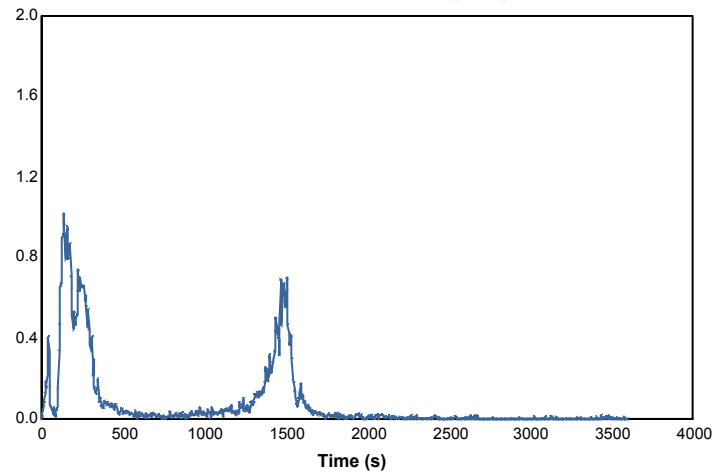
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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