

# 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 :** Wilsonart Australia  
Unit 3B  
13 - 15 Forrester Street  
Kingsgrove NSW 2208

**Test Number :** 16-005681  
**Issue Date :** 10/11/2016  
**Print Date :** 10/11/2016

**Sample Description** Clients Ref : "Wilsonart Compact Laminate"  
Wood effect laminate  
Colour : Brown  
End Use : Wall, Furniture, Doors, Benchtops, Wash Rooms  
Nominal Composition : High Pressure Laminate  
Nominal Mass per Unit Area/Density : Approx. 17.9kg/2  
Nominal Thickness : 13mm

**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	65.8	66.2	64.3	65.4	kW/m <sup>2</sup>
Average Specific extinction area	23.5	45.5	34.5	34.5	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	29	44	41	38	sec
Test duration	3600	3600	3600	3600	sec

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Peak heat release after ignition	137.0	152.2	141.1	143.4	kW/m <sup>2</sup>
Average heat at 60 s	52.2	60.9	60.1	57.7	kW/m <sup>2</sup>
Average heat at 180 s	61.1	72.5	68.3	67.3	kW/m <sup>2</sup>
Average heat at 300 s	66.7	75.6	62.9	68.4	kW/m <sup>2</sup>
Total heat released	234.8	235.4	229.0	233.1	MJ/m <sup>2</sup>
Average effective heat of combustion	13.7	13.6	13.6	13.6	MJ/kg
Initial thickness	13.0	13.0	13.0	13.0	mm
Initial mass	179.6	179.2	180	179.6	g
Mass remaining	40.5	39.1	42.6	40.7	g
Mass percentage pyrolysed	77.5	78.2	76.3	77.3	%
Mass loss	139.1	140.1	137.4	138.9	g
Average rate of mass loss	4.8	4.9	4.7	4.8	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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0204/11/06

  
APPROVED SIGNATORY

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

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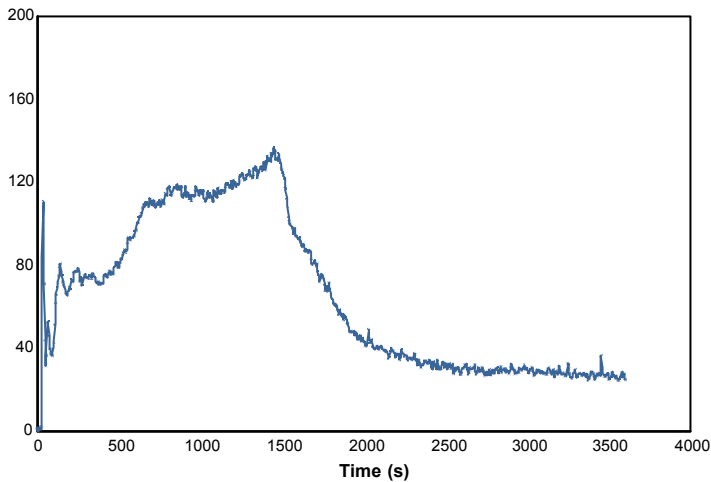
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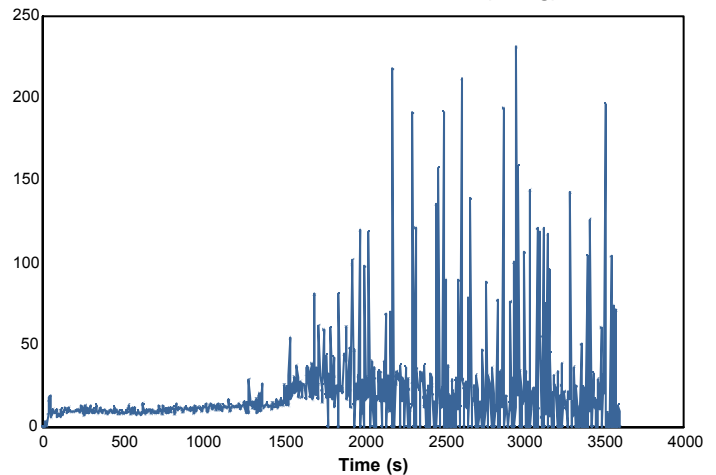
**Test Number :** 16-005681  
**Issue Date :** 10/11/2016  
**Print Date :** 10/11/2016

**Specimen :** 1

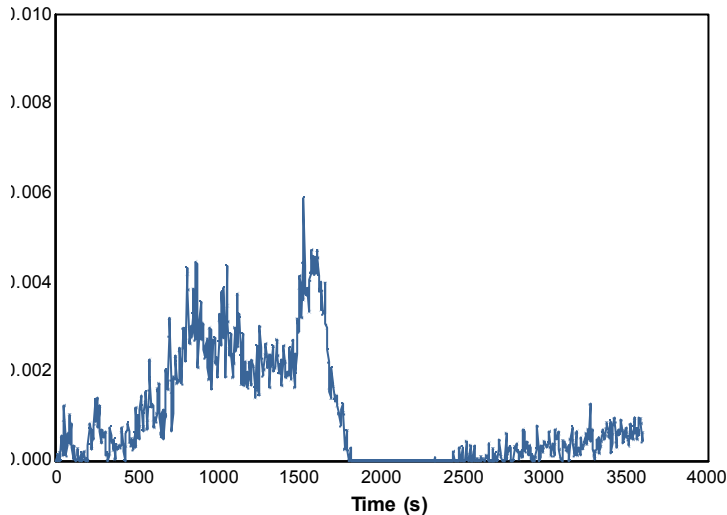
Heat release rate (kW/m<sup>2</sup>)



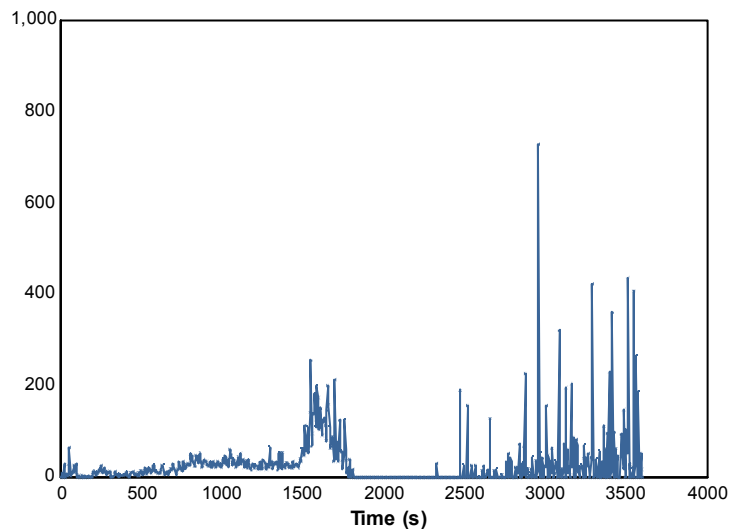
Effective heat of combustion (MJ/kg)



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



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



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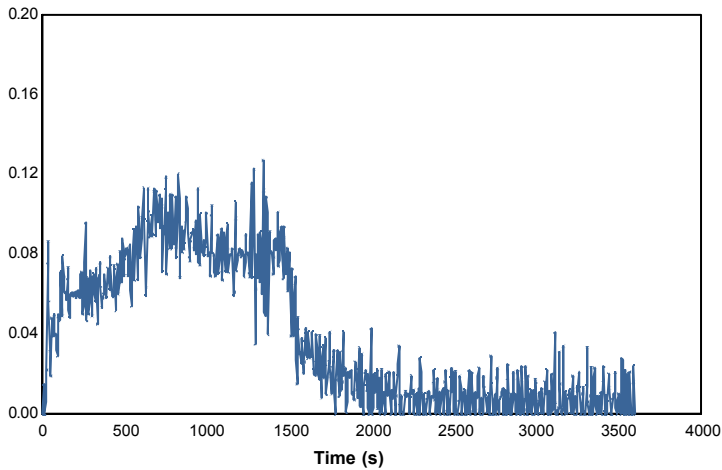
Phone (03) 9371 2400 Fax (03) 9371 2499

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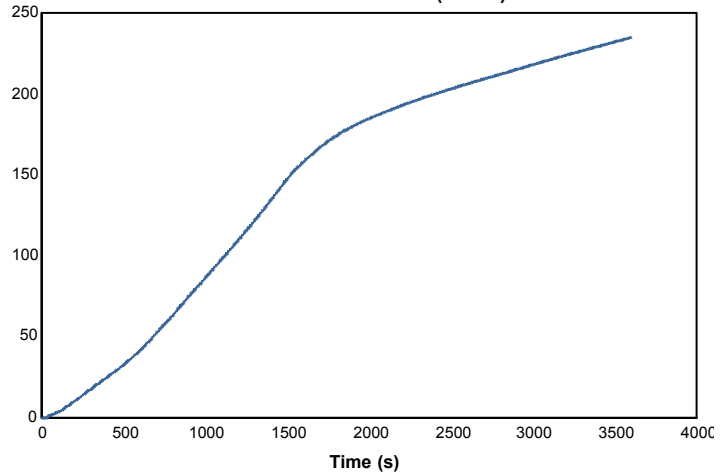
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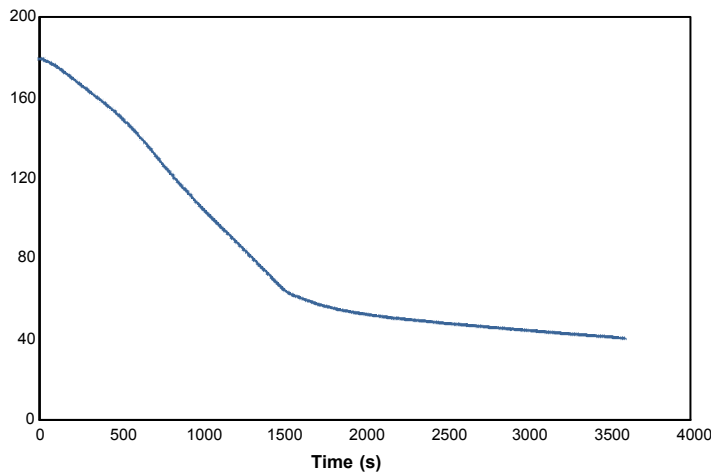
Mass loss rate (g/s)



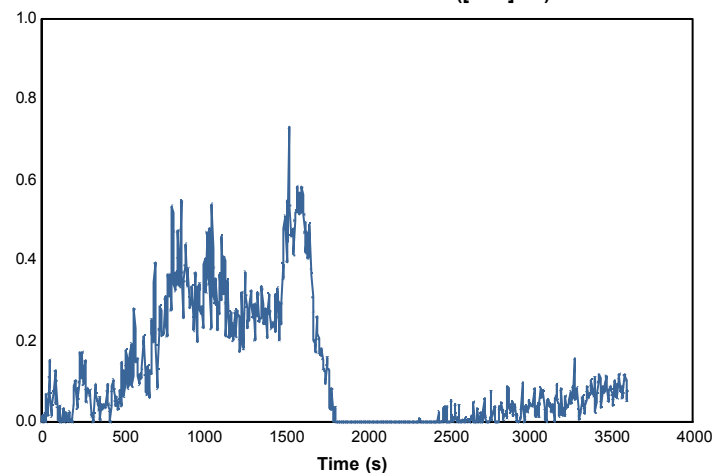
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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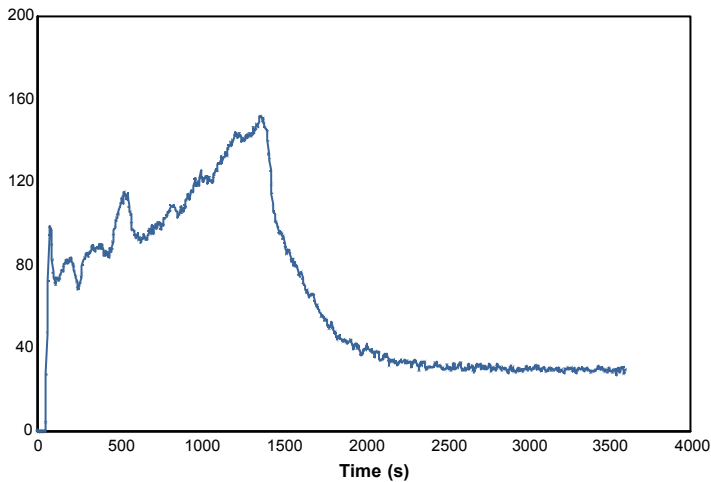
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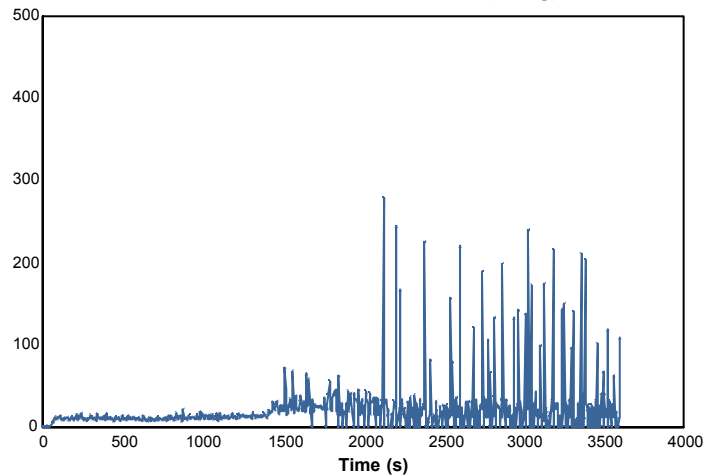
**Test Number :** 16-005681  
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**Specimen :** 2

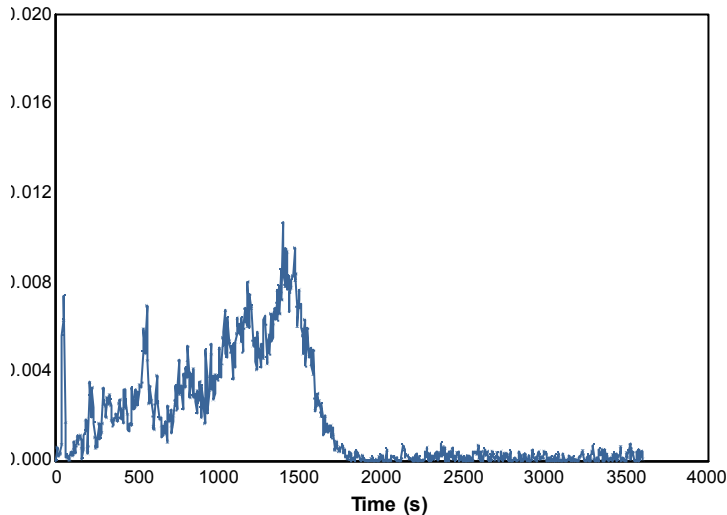
Heat release rate (kW/m<sup>2</sup>)



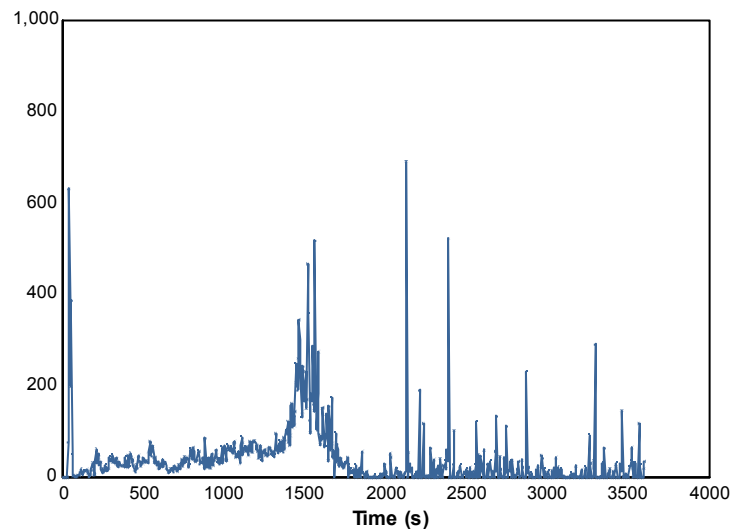
Effective heat of combustion (MJ/kg)



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



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



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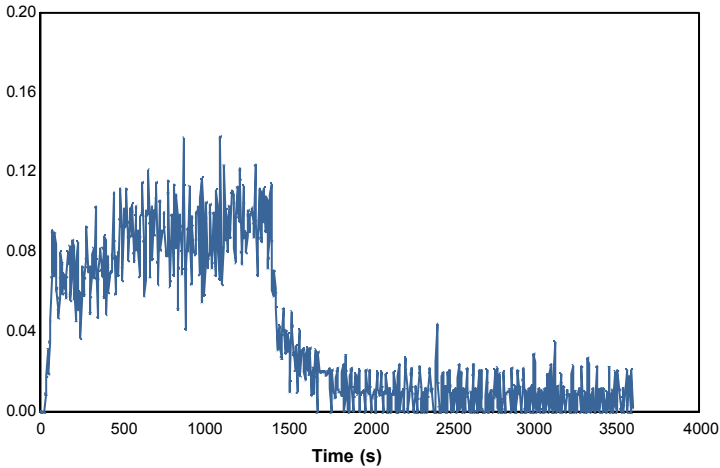
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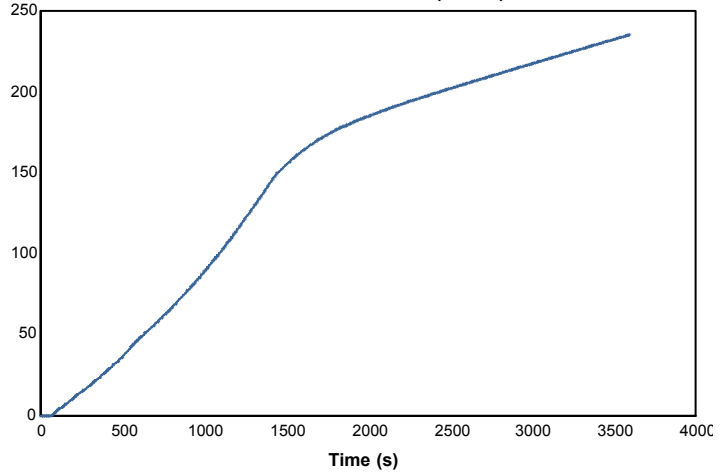
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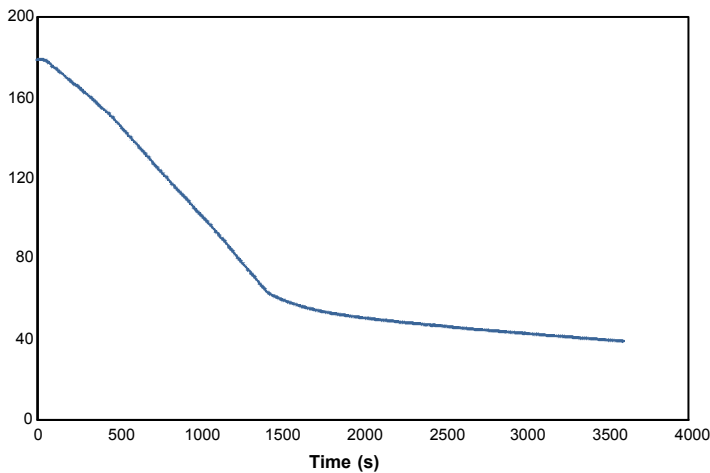
Mass loss rate (g/s)



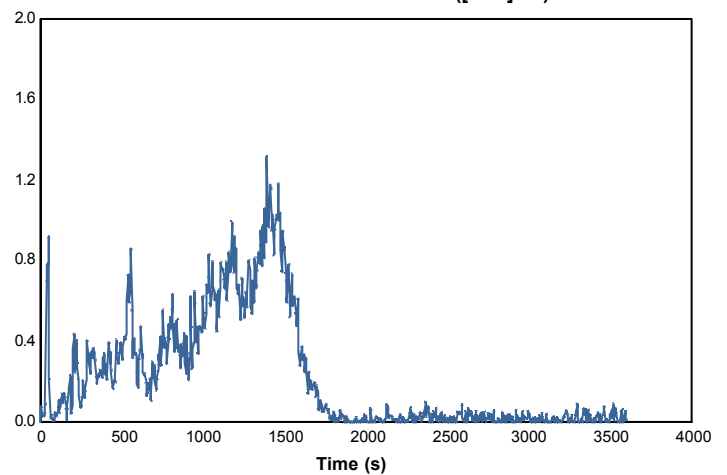
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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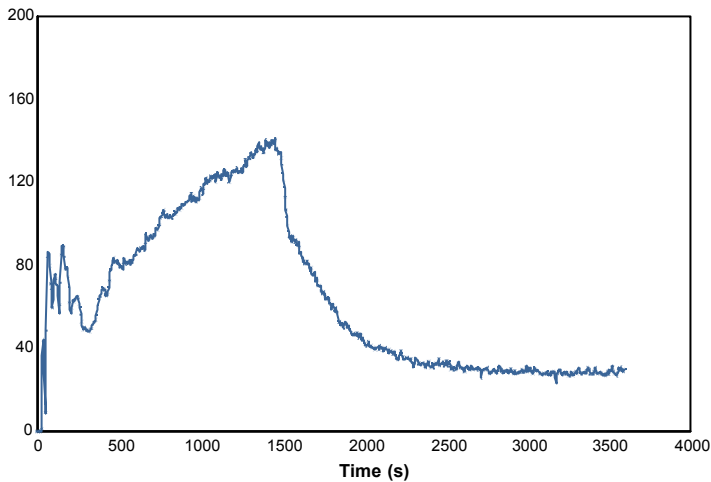
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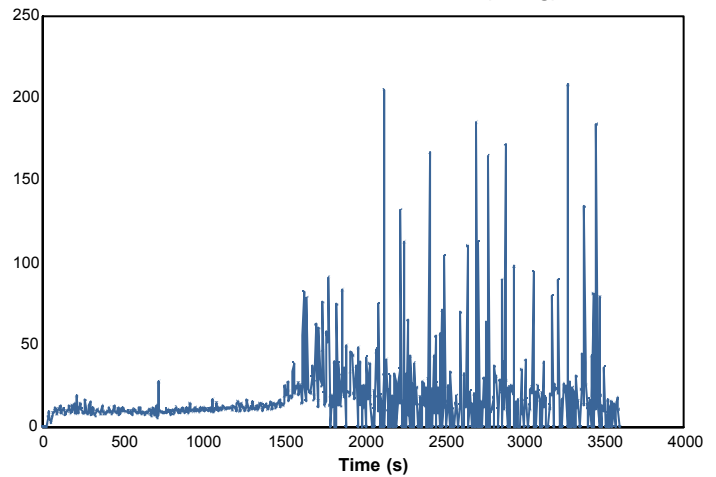
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**Specimen :** 3

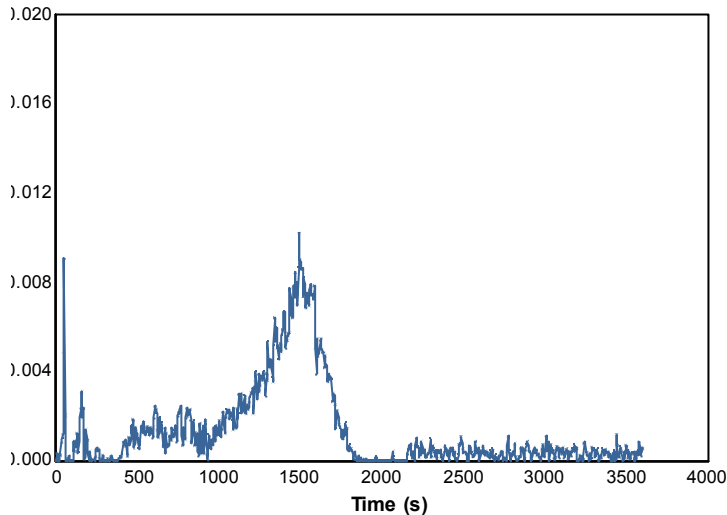
Heat release rate (kW/m<sup>2</sup>)



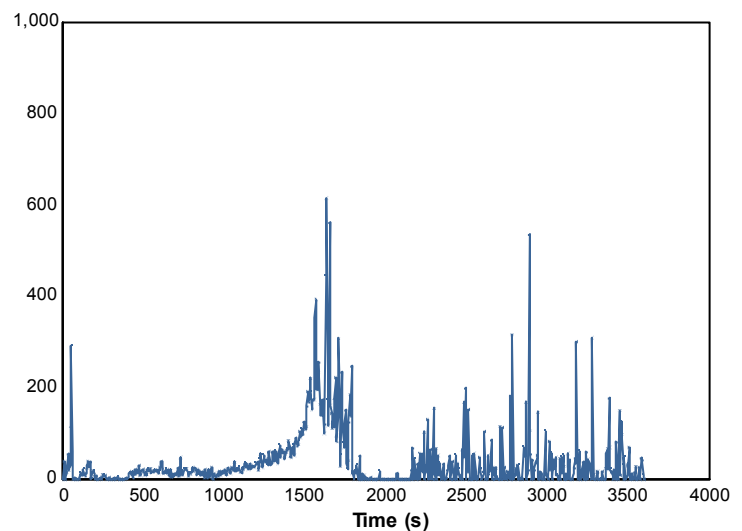
Effective heat of combustion (MJ/kg)



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



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



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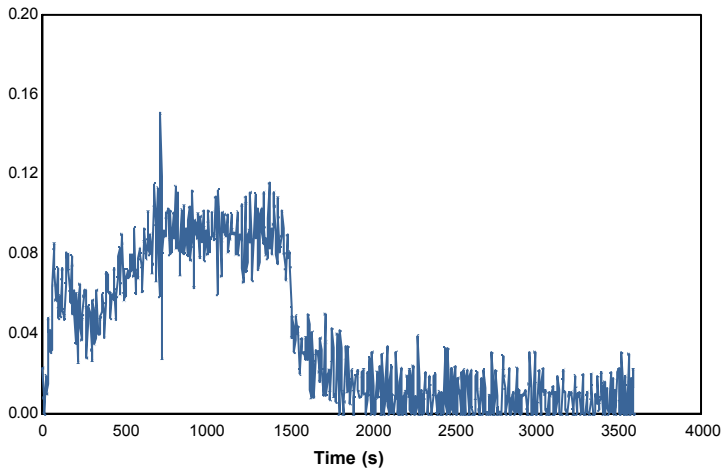
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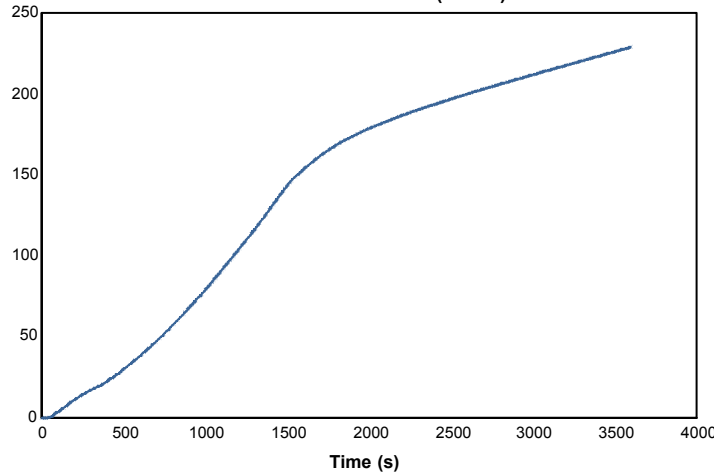
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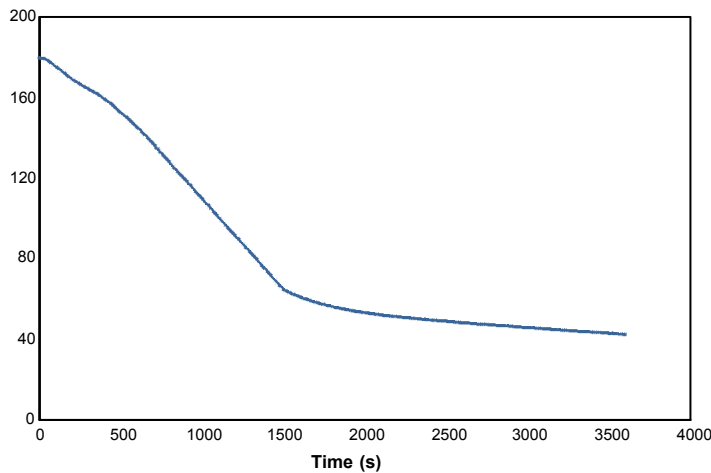
Mass loss rate (g/s)



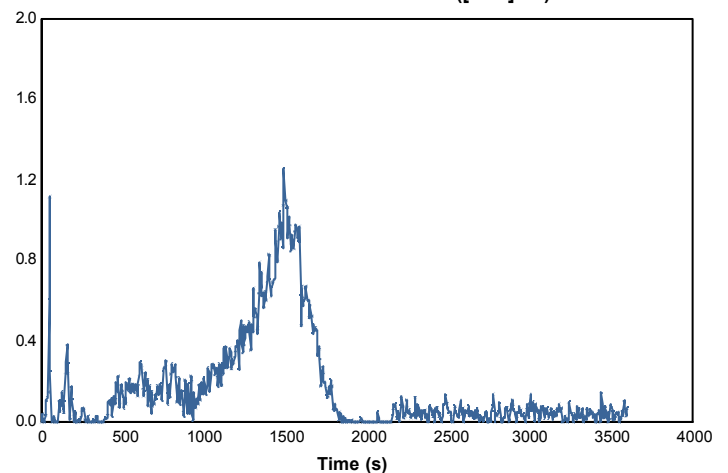
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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