

# 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 :** Bonlex Australia  
19 Cooper Street  
Campbellfield VIC 3061

**Test Number :** 15-005552  
**Issue Date :** 24/11/2015  
**Print Date :** 1/12/2015

**Sample Description** Clients Ref : Gloss - PVC laminate onto MDF  
Colour : White  
End Use : Wall Cladding  
Nominal Composition : PVC/MDF  
Nominal Mass per Unit Area/Density : Approx: 15.8kg/m2  
Nominal Thickness : MDF: 18mm PVC: 0.5mm

**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	64.3	68.4	69.5	67.4	kW/m <sup>2</sup>
Average Specific extinction area	57.0	65.0	66.8	63.0	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	34	34	32	33	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	250.4	237.8	242.3	243.5	kW/m <sup>2</sup>
Average heat at 60 s	175.7	165.5	168.4	169.9	kW/m <sup>2</sup>
Average heat at 180 s	168.3	166.5	167.3	167.4	kW/m <sup>2</sup>
Average heat at 300 s	153.5	151.9	151.3	152.2	kW/m <sup>2</sup>
Total heat released	229.4	243.9	247.9	240.4	MJ/m <sup>2</sup>
Average effective heat of combustion	13.5	14.8	14.9	14.4	MJ/kg

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- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356



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Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	158.6	157.7	158.3	158.2	g
Mass remaining	20.6	23.5	23.0	22.4	g
Mass percentage pyrolysed	87.0	85.1	85.4	85.8	%
Mass loss	138.0	134.2	135.3	135.8	g
Average rate of mass loss	4.8	4.6	4.7	4.7	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 reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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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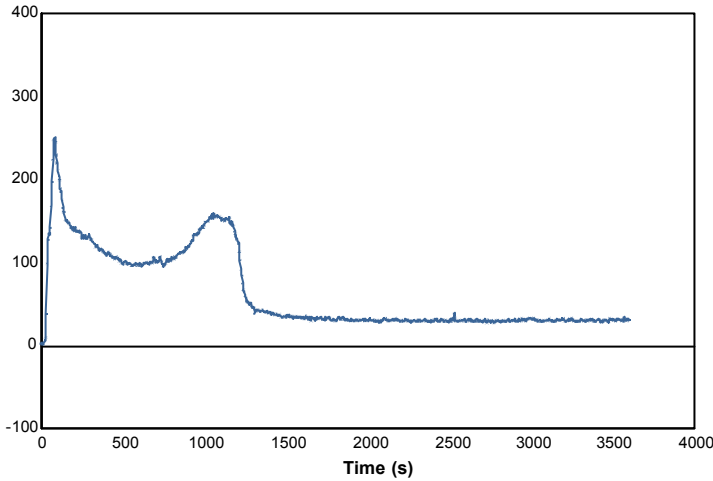
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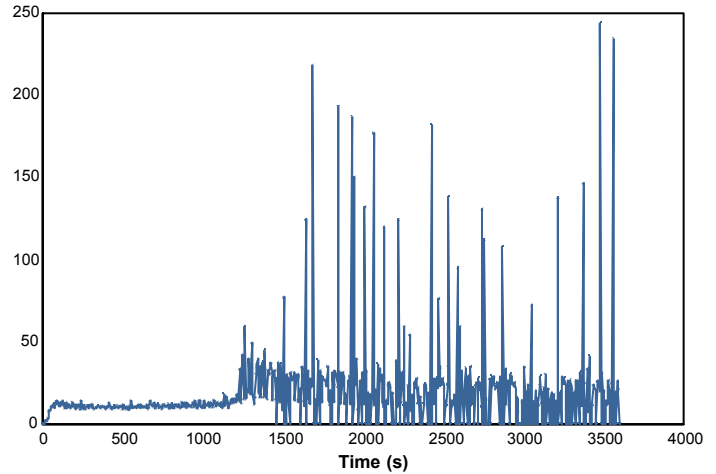
**Test Number :** 15-005552  
**Issue Date :** 24/11/2015  
**Print Date :** 1/12/2015

**Specimen :** 1

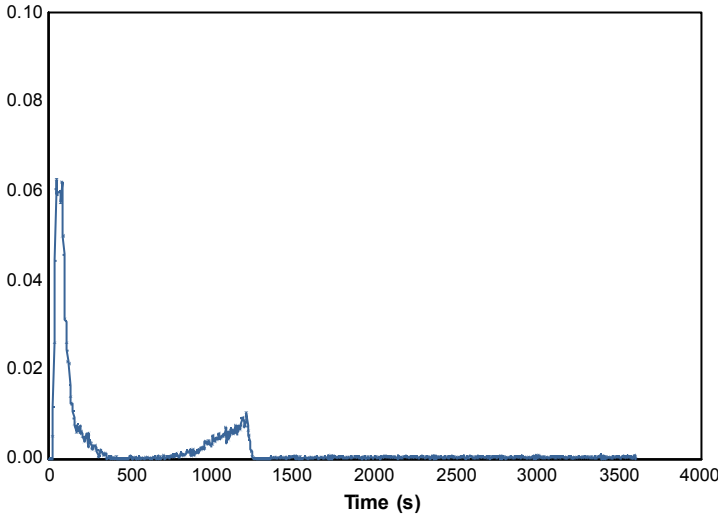
**Heat release rate (kW/m<sup>2</sup>)**



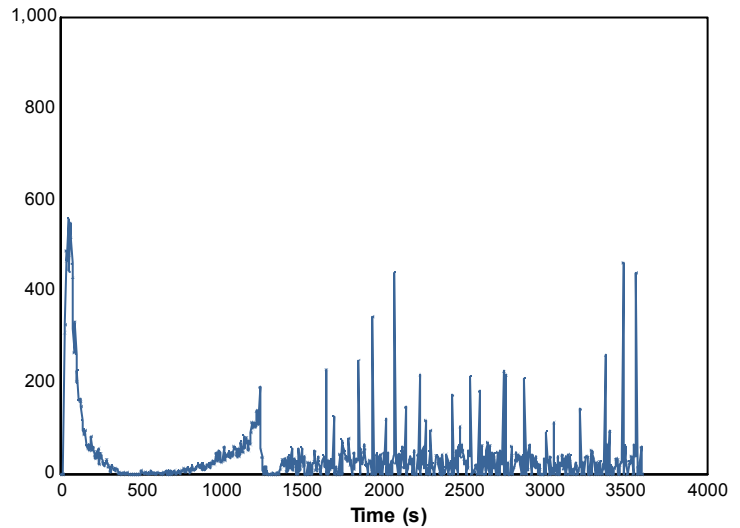
**Effective heat of combustion (MJ/kg)**



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



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



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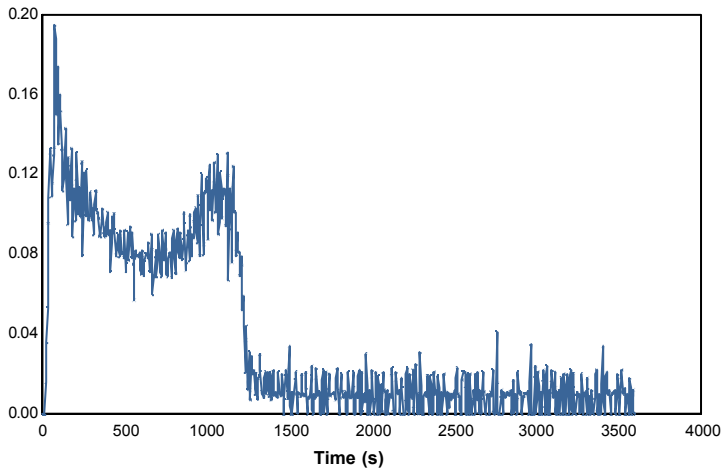
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

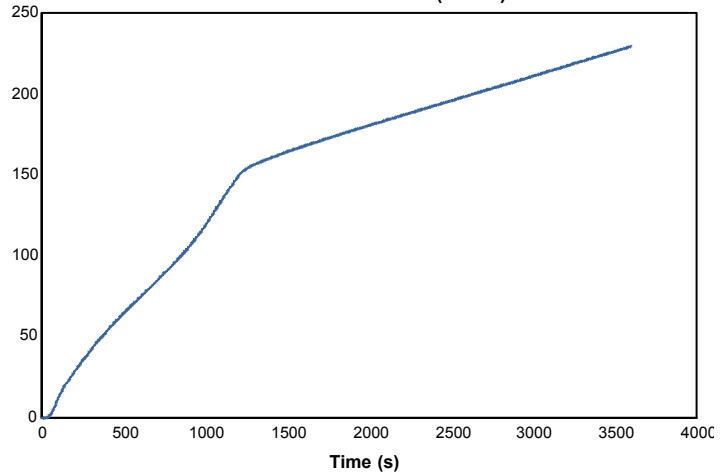
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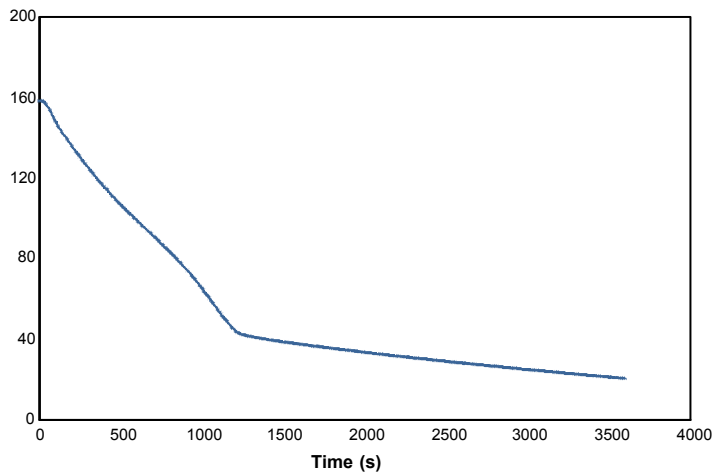
Mass loss rate (g/s)



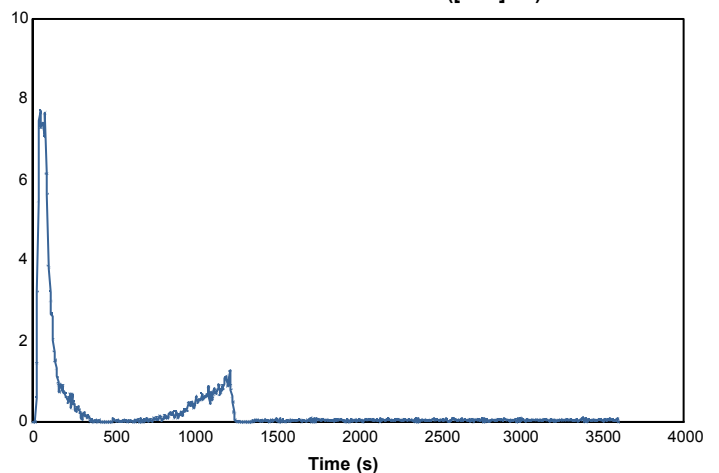
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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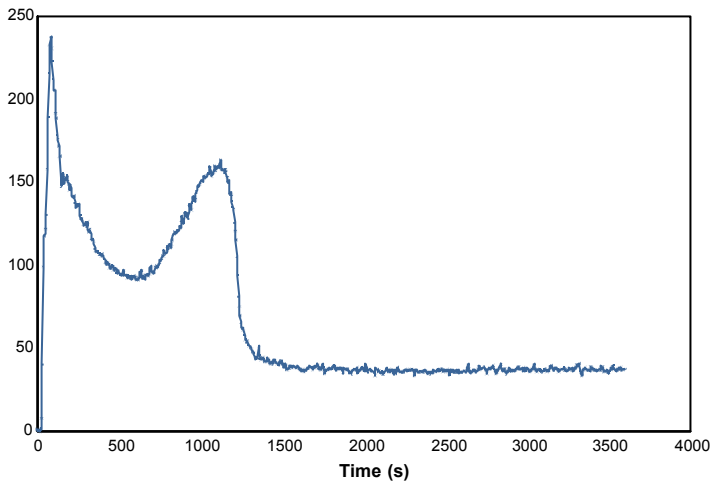
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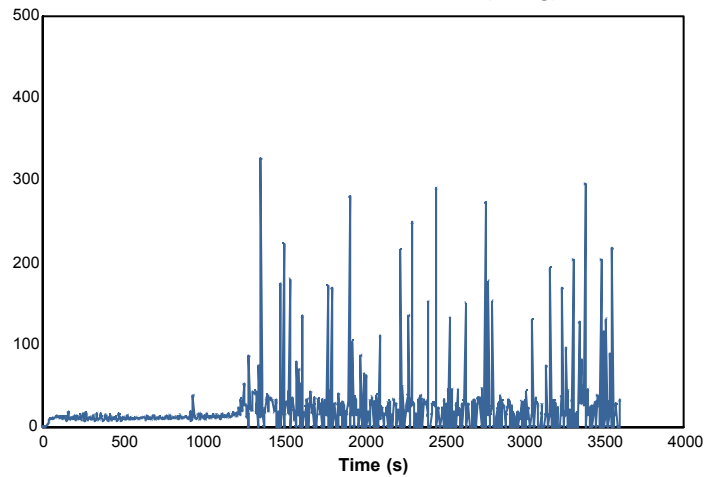
**Test Number :** 15-005552  
**Issue Date :** 24/11/2015  
**Print Date :** 1/12/2015

**Specimen :** 2

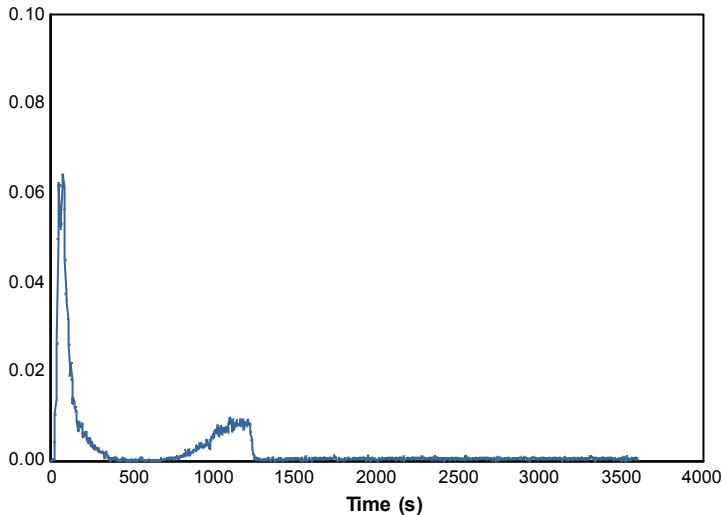
**Heat release rate (kW/m<sup>2</sup>)**



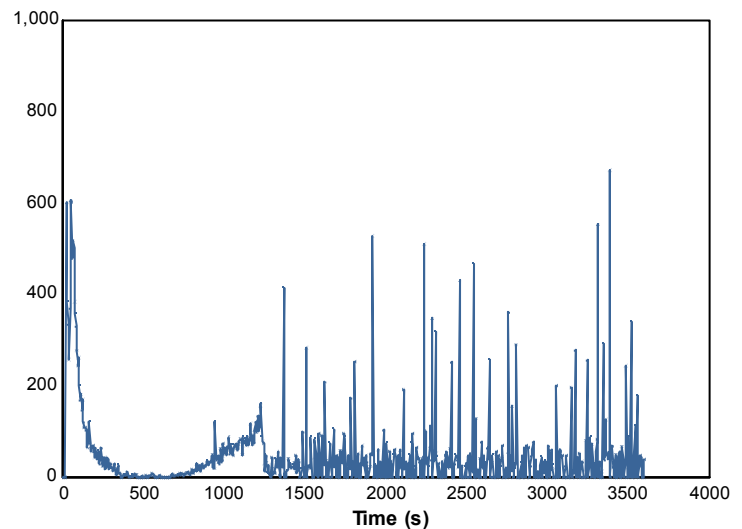
**Effective heat of combustion (MJ/kg)**



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



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



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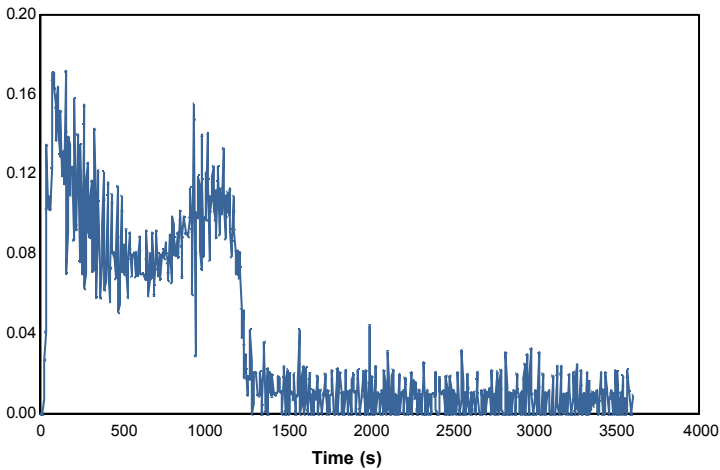
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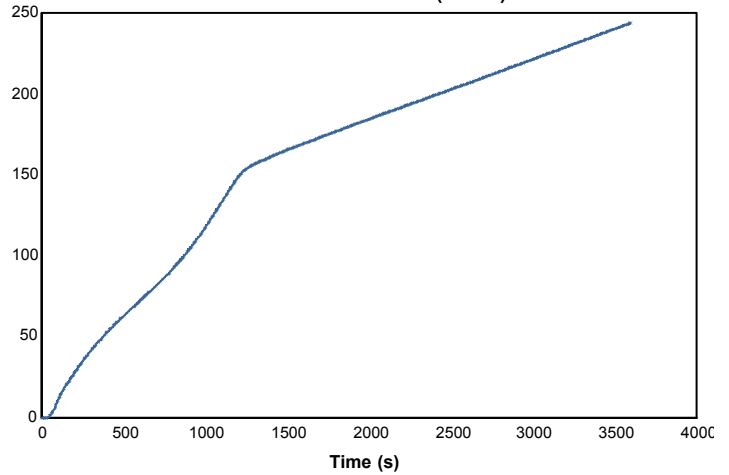
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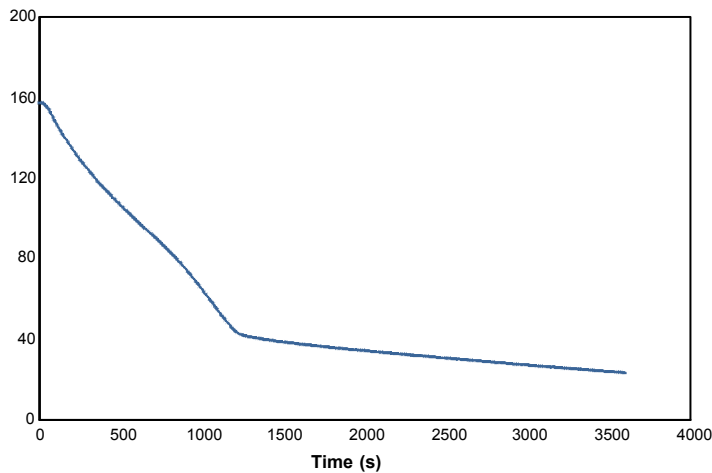
**Mass loss rate (g/s)**



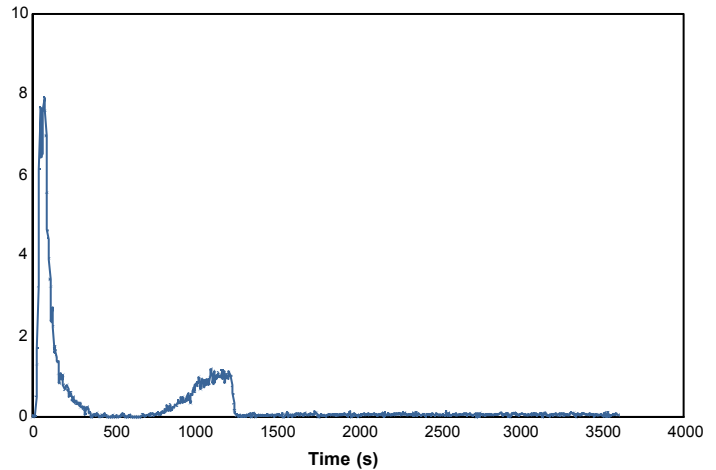
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release (l/m²/s)/m²)**



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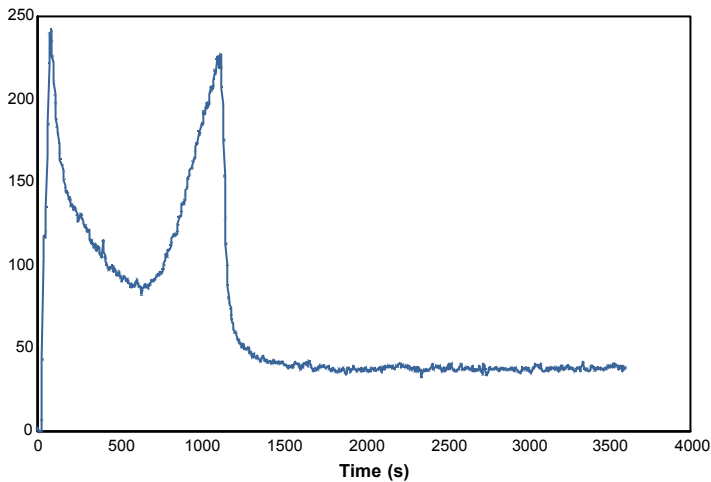
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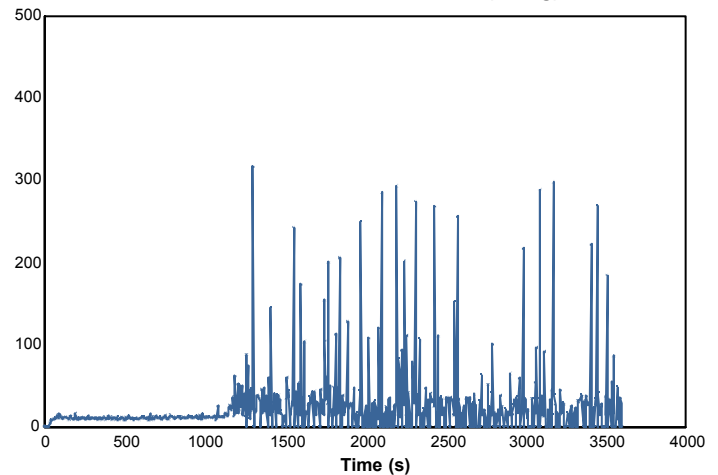
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**Specimen :** 3

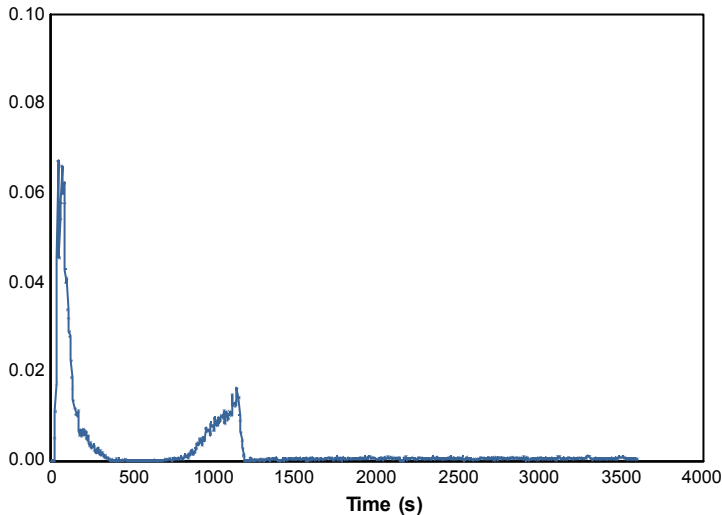
**Heat release rate (kW/m<sup>2</sup>)**



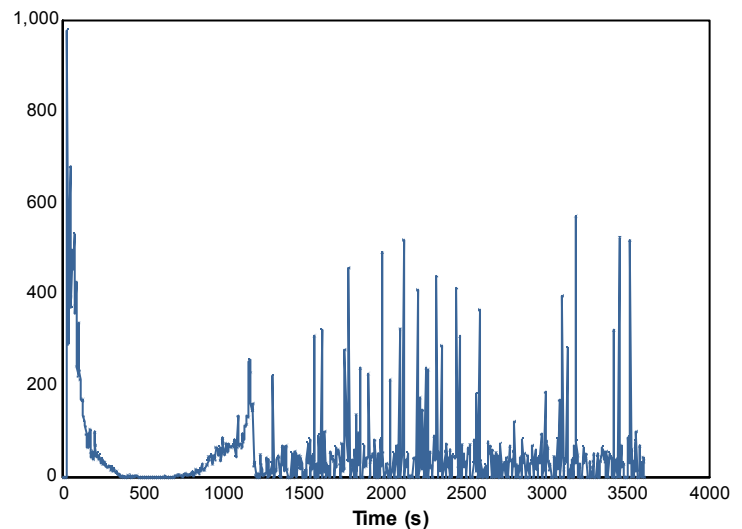
**Effective heat of combustion (MJ/kg)**



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



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



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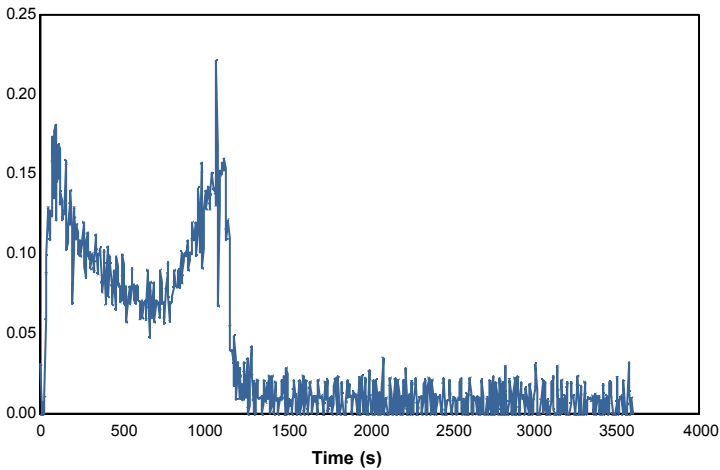
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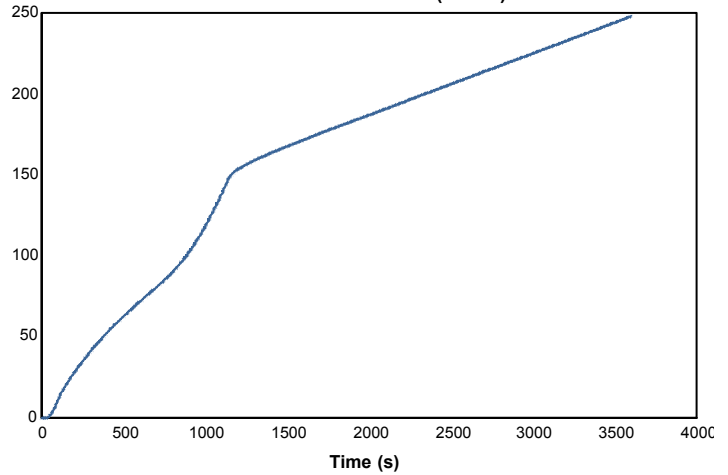
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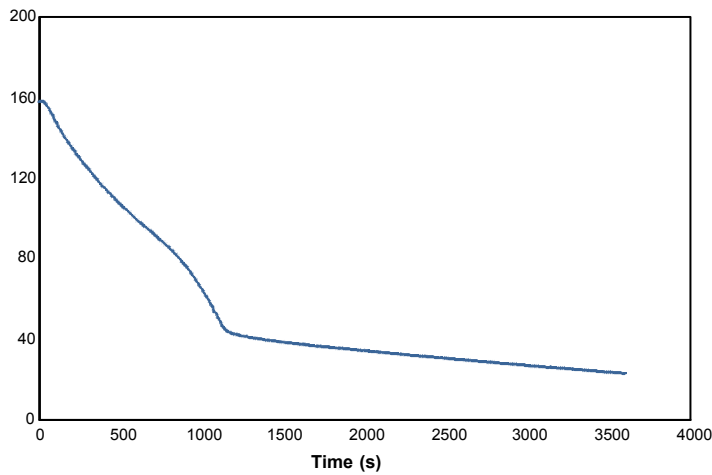
Mass loss rate (g/s)



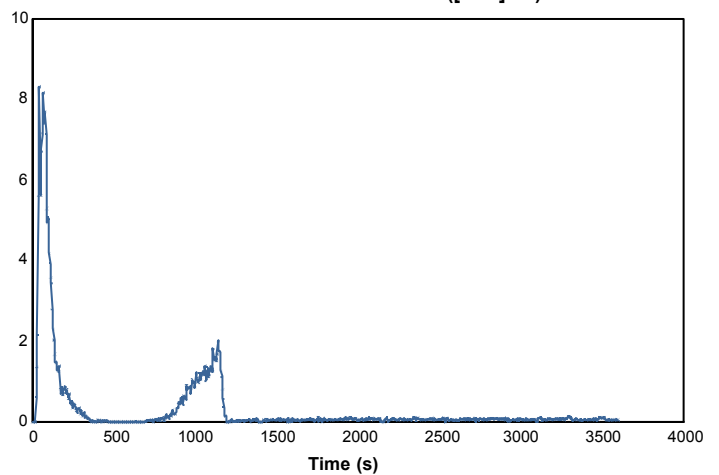
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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