

# 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 :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 16-004835  
**Issue Date :** 07/10/2016  
**Print Date :** 10/10/2016  
**Order Number :** 2092

**Sample Description** Clients Ref : "Laminex Purecoat; Sample 19490"  
Low Pressure Laminate  
Nominal Composition : MDF core, low pressure melaine decorative paper both sides, and front surface with a high gloss coating  
Nominal Mass per Unit Area/Density : 770kg/m<sup>3</sup>  
Nominal Thickness : 18mm

### ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	94.7	91.4	91.2	92.4	kW/m <sup>2</sup>
Group Number Classification	3	3	3		
(In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)					
Average Specific extinction area	22.3	21.3	26.7	23.4	m <sup>2</sup> /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	16	16	16	16	sec
Test duration	1816	1816	1816	1816	sec

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Peak heat release after ignition	425.4	459.6	395.9	427.0	kW/m <sup>2</sup>
Average heat at 60 s	210.5	206.4	223.0	213.3	kW/m <sup>2</sup>
Average heat at 180 s	162.8	156.0	157.9	158.9	kW/m <sup>2</sup>
Average heat at 300 s	146.9	140.7	141.1	142.9	kW/m <sup>2</sup>
Total heat released	170.6	164.5	164.1	166.4	MJ/m <sup>2</sup>
Average effective heat of combustion	12.4	12.2	12.8	12.5	MJ/kg
Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	141.7	141.3	132.6	138.5	g
Mass remaining	30.5	31.8	28.5	30.3	g
Mass percentage pyrolysed	78.5	77.5	78.5	78.2	%
Mass loss	111.2	109.5	104.1	108.3	g
Average rate of mass loss	7.6	7.5	7.1	7.4	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.

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

Note: All calculations are based on ignition + 30 minutes.

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0204/11/06

APPROVED SIGNATORY

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

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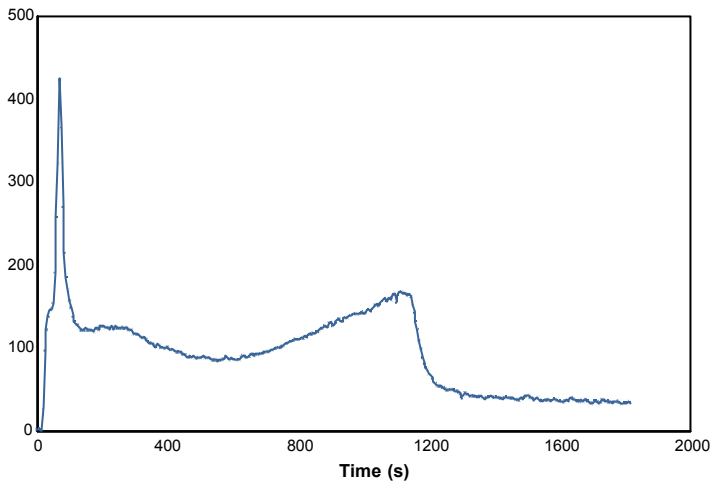
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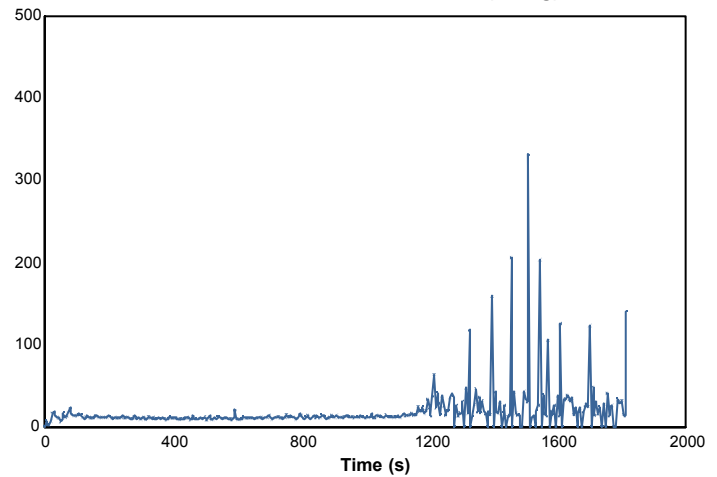
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**Specimen :** 1

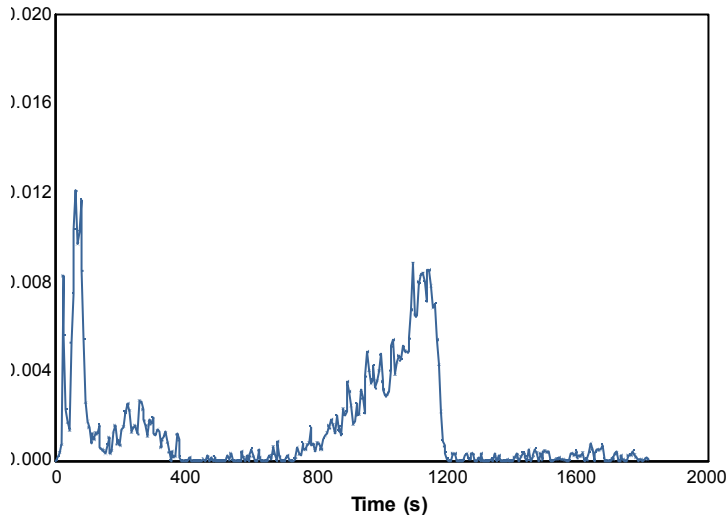
Heat release rate (kW/m<sup>2</sup>)



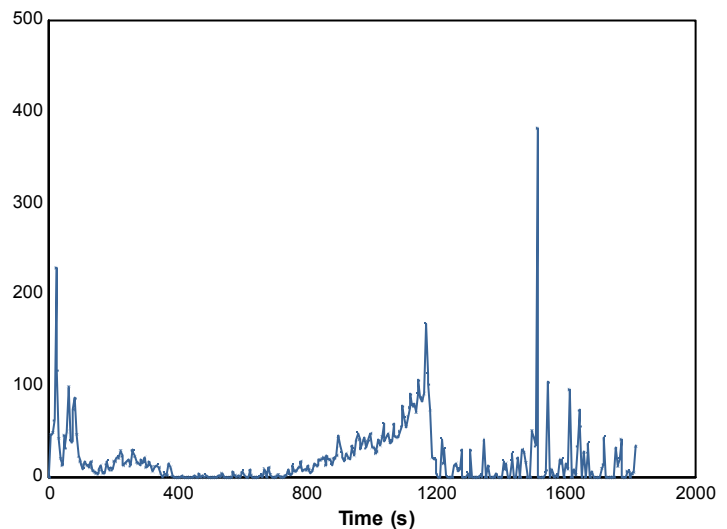
Effective heat of combustion (MJ/kg)



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



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



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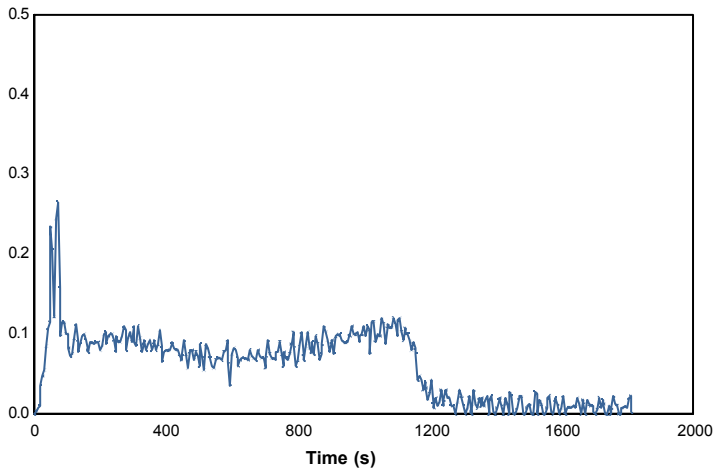
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## TEST REPORT

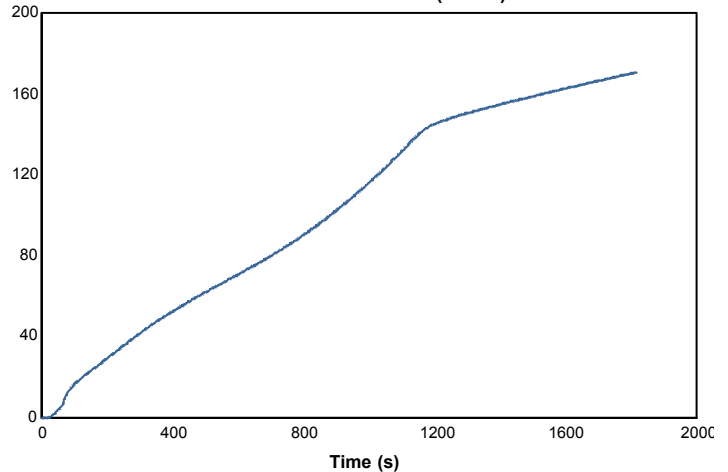
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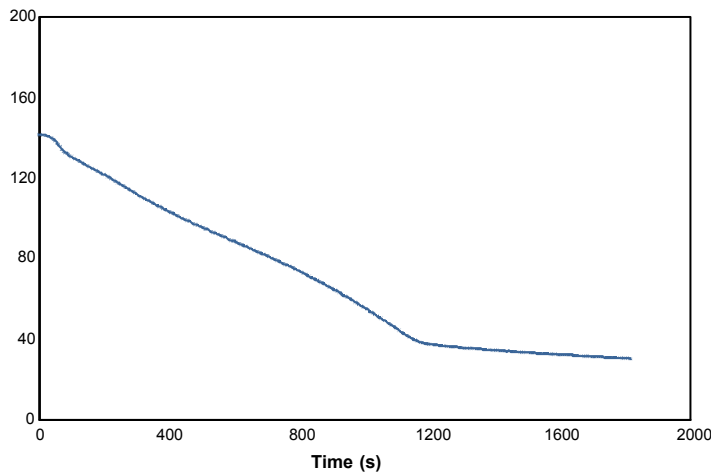
Mass loss rate (g/s)



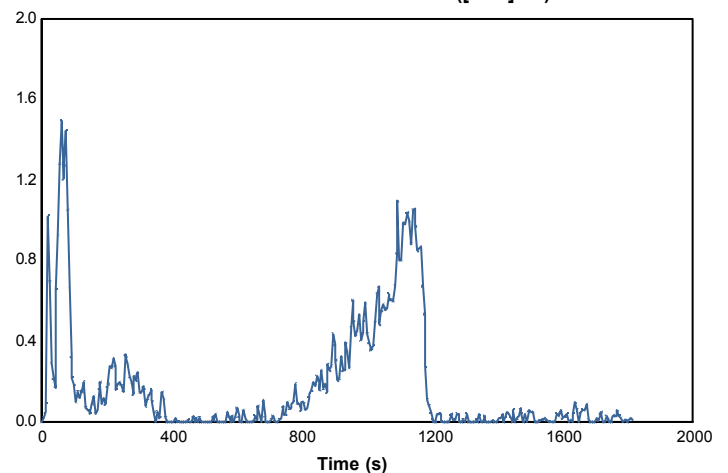
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s/m²)



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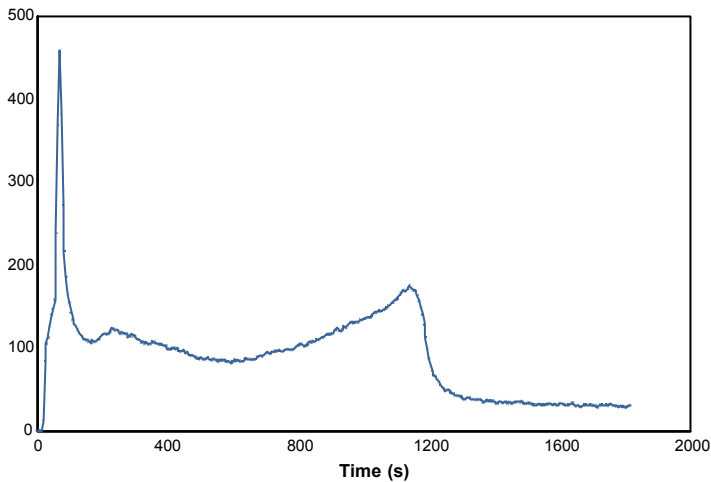
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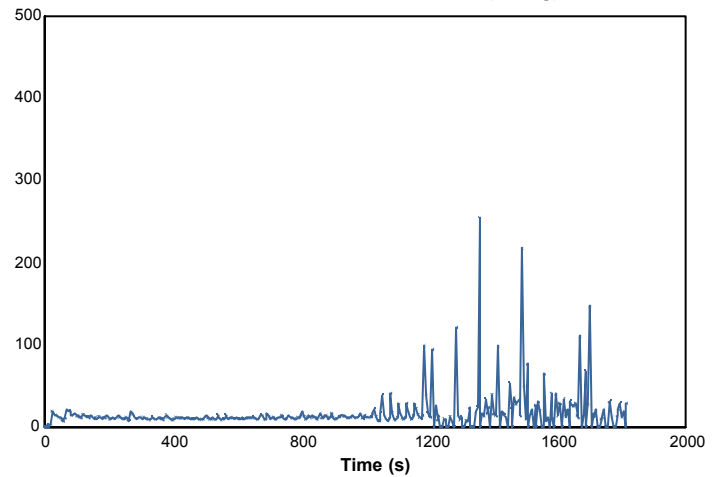
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**Specimen :** 2

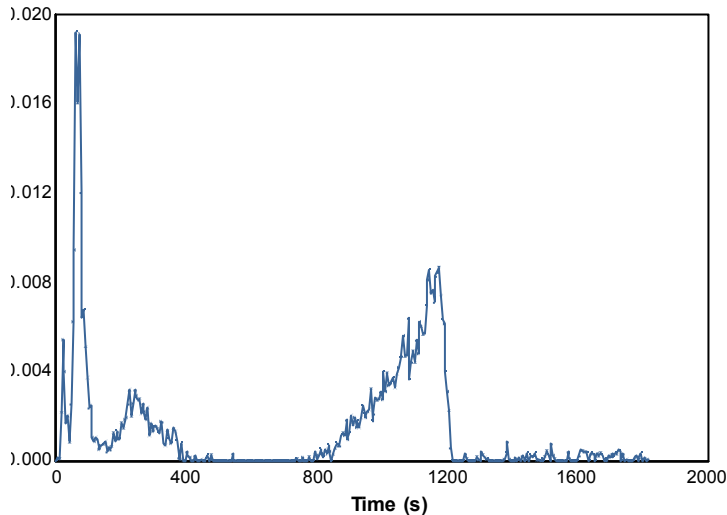
Heat release rate (kW/m<sup>2</sup>)



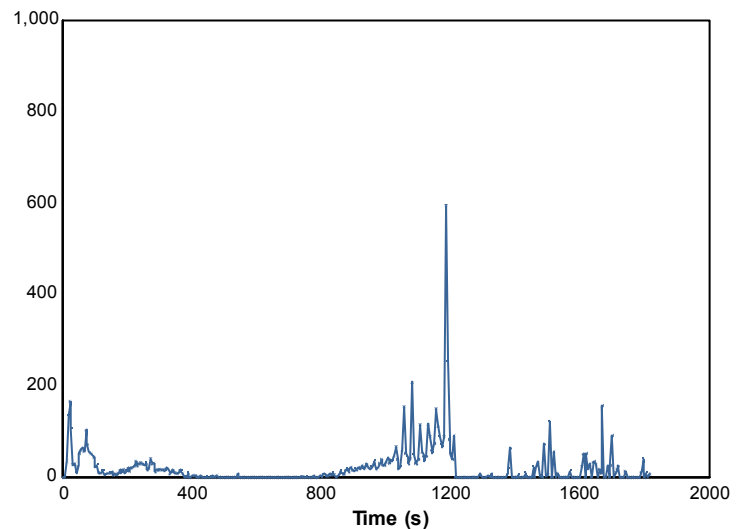
Effective heat of combustion (MJ/kg)



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



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



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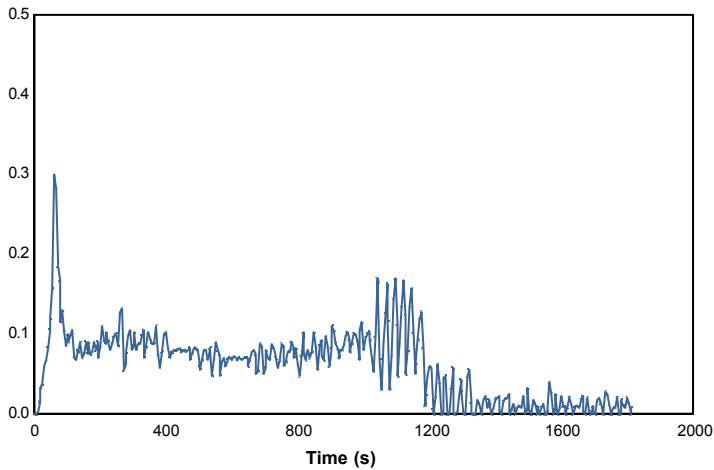
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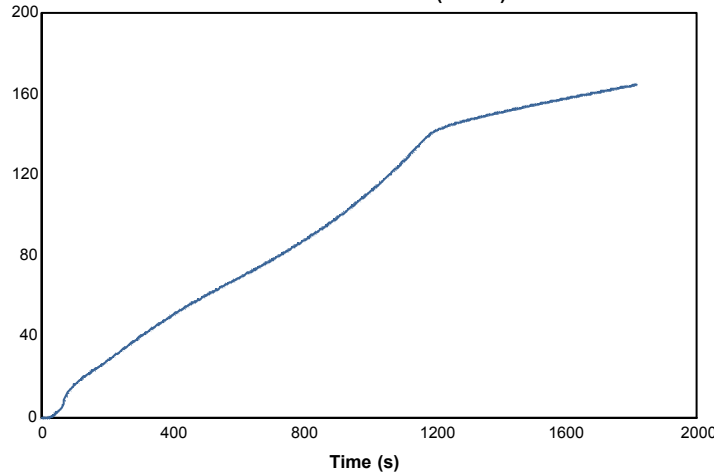
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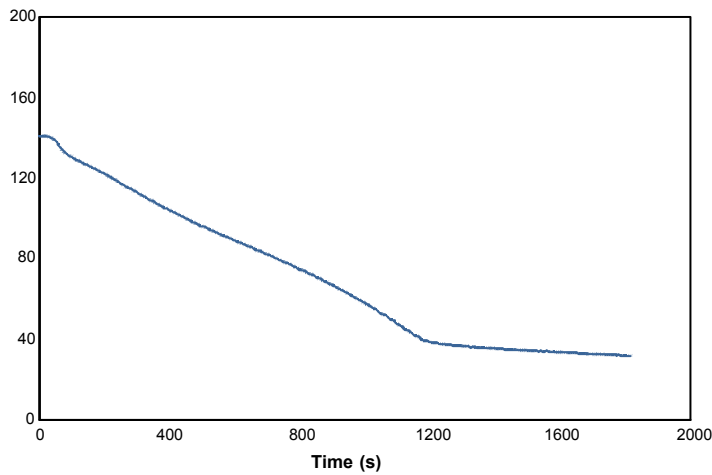
Mass loss rate (g/s)



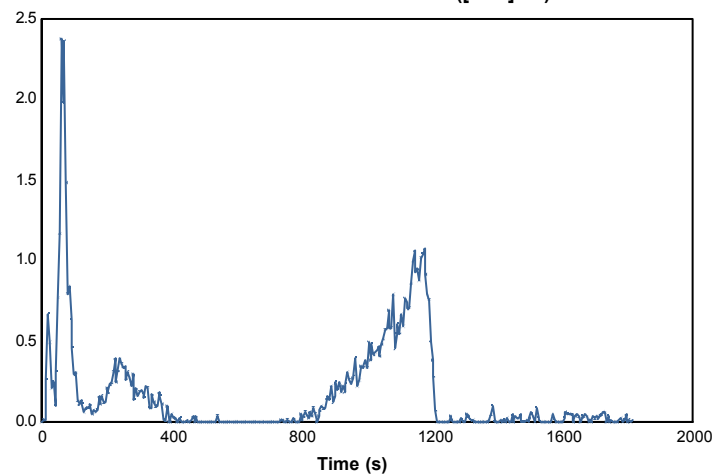
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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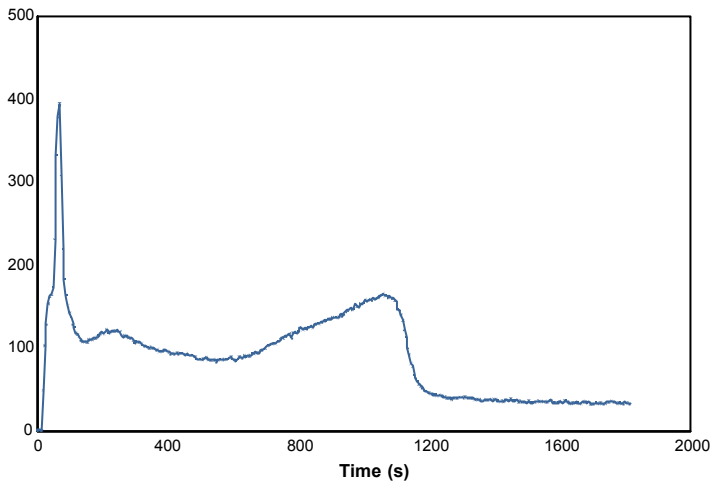
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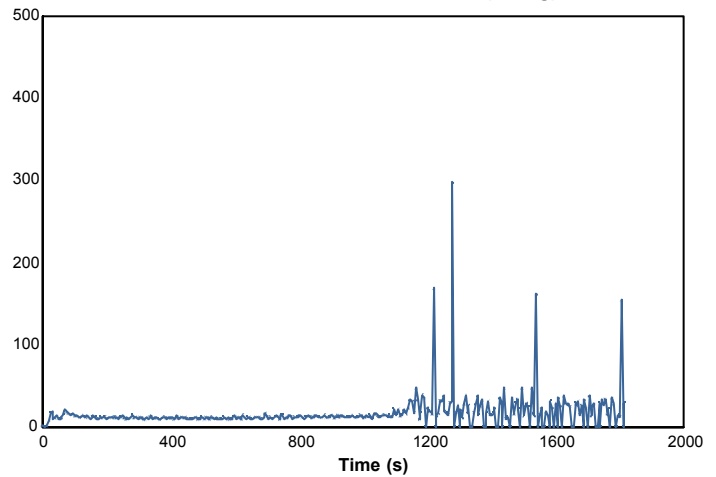
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**Specimen :** 3

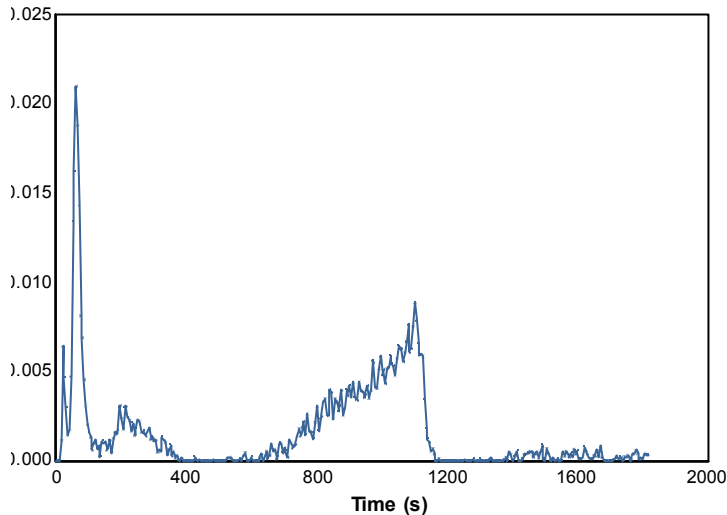
Heat release rate (kW/m<sup>2</sup>)



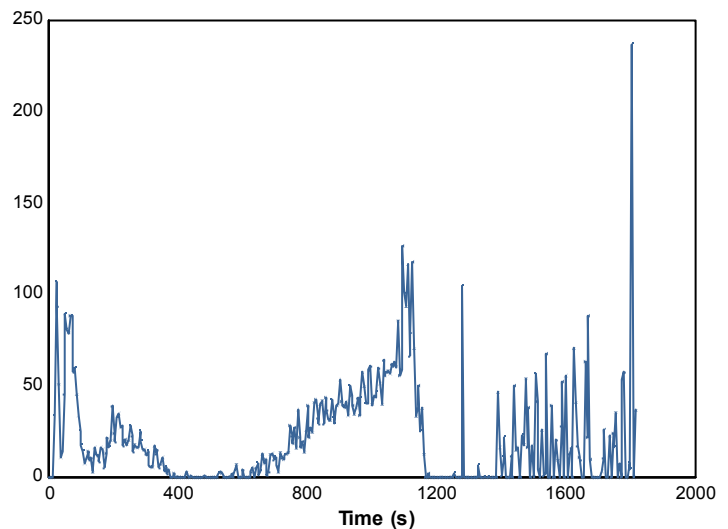
Effective heat of combustion (MJ/kg)



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



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



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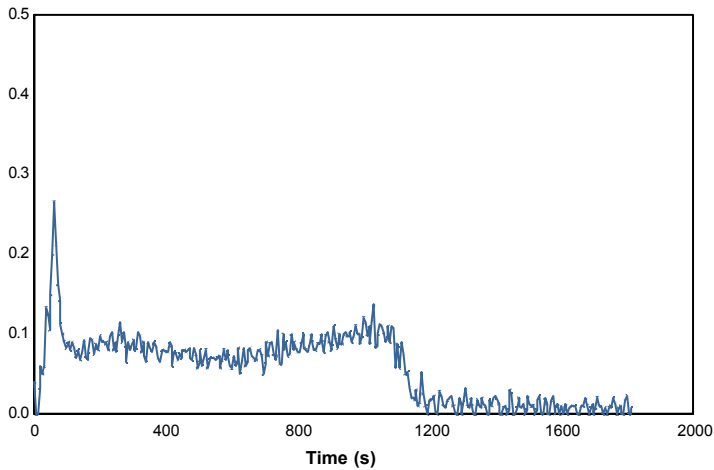
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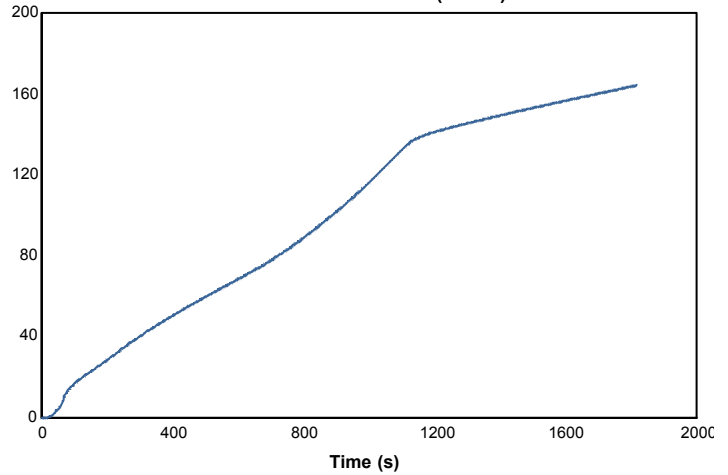
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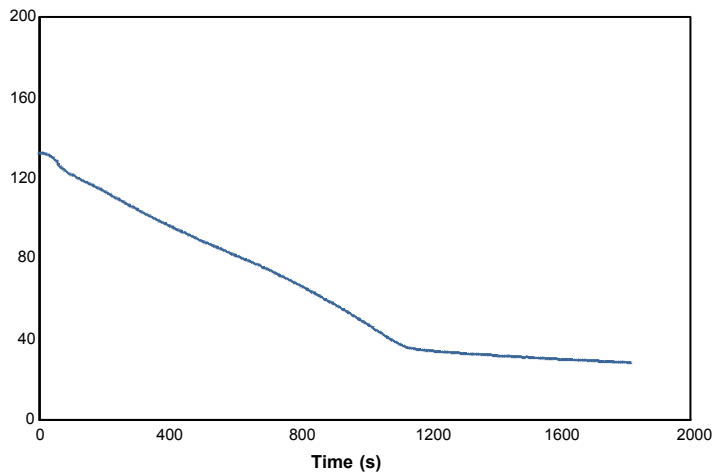
Mass loss rate (g/s)



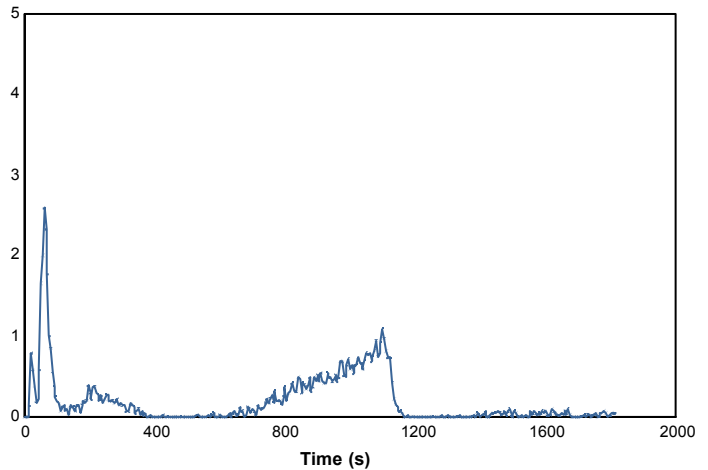
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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