

# 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 :** NSW Leather Co Pty Ltd  
16 Anderson Street  
Banksmeadow NSW 2019

**Test Number :** 16-000849  
**Issue Date :** 01/03/2016  
**Print Date :** 3/03/2016

**Sample Description** Clients Ref : "EXTREME"  
Leather Swatches  
Colour : Green  
End Use : Furniture, Wall Panels etc  
Nominal Composition : Leather Cowhide Bovine  
Nominal Mass per Unit Area/Density : 960g/m<sup>2</sup>  
Nominal Thickness : 1.3-1.4mm

### 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	16.5	16.6	16.9	16.7	kW/m <sup>2</sup>
Group Number Classification	1S	1S	1S		

(In Accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

Average Specific extinction area	32.5	25.7	25.4	27.9	m <sup>2</sup> /kg
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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	17	11	20	16	sec
Test duration	1817	1811	1820	1816	sec

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- Chemical Testing of Textiles & Related Products : Accreditation No. 983  
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356

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

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Peak heat release after ignition	98.9	95.4	96.1	96.8	kW/m <sup>2</sup>
Average heat at 60 s	80.6	69.6	72.1	74.1	kW/m <sup>2</sup>
Average heat at 180 s	61.5	62.4	60.3	61.4	kW/m <sup>2</sup>
Average heat at 300 s	54.0	54.6	53.9	54.2	kW/m <sup>2</sup>
Total heat released	29.8	29.9	30.4	30.0	MJ/m <sup>2</sup>
Average effective heat of combustion	10.5	10.3	10.8	10.5	MJ/kg
Initial thickness	7.5	7.5	7.5	7.5	mm
Initial mass	90.1	89.9	89.6	89.9	g
Mass remaining	66.9	66.3	66.9	66.7	g
Mass percentage pyrolysed	25.7	26.2	25.3	25.8	%
Mass loss	23.2	23.6	22.7	23.2	g
Average rate of mass loss	1.6	1.6	1.6	1.6	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.

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.

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

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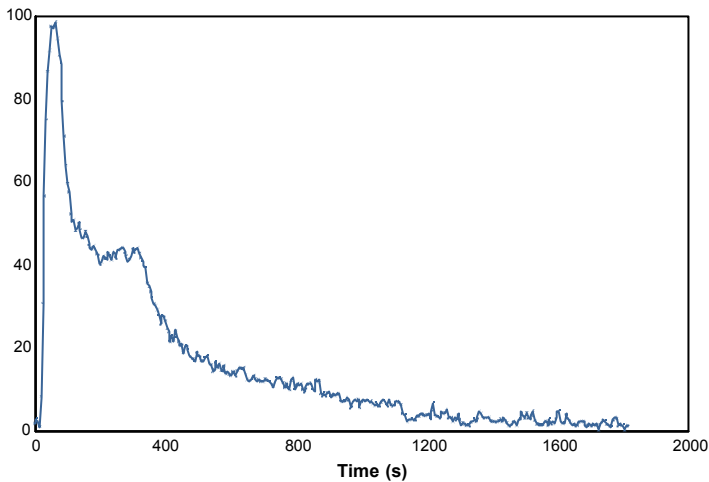
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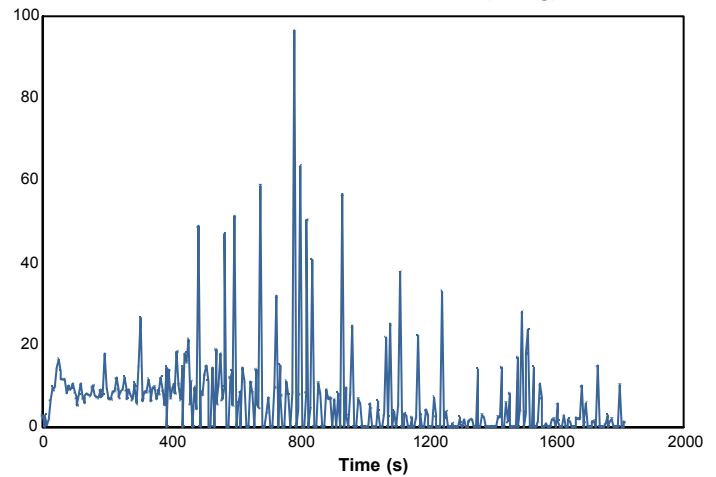
**Test Number :** 16-000849  
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**Specimen :** 1

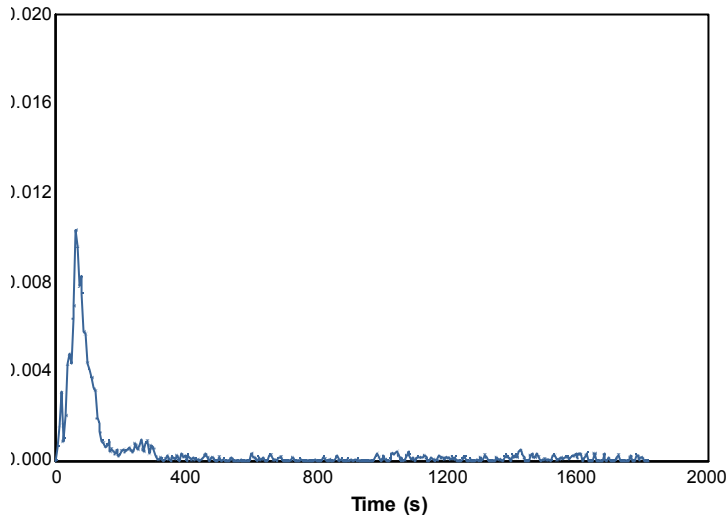
**Heat release rate (kW/m<sup>2</sup>)**



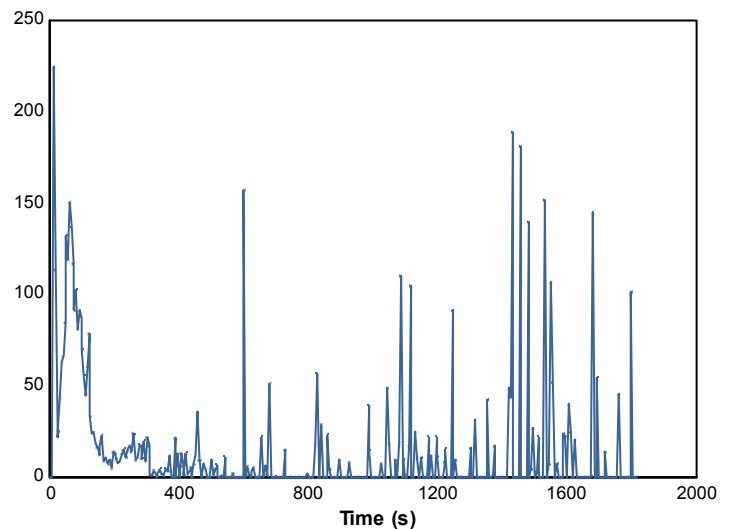
**Effective heat of combustion (MJ/kg)**



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



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



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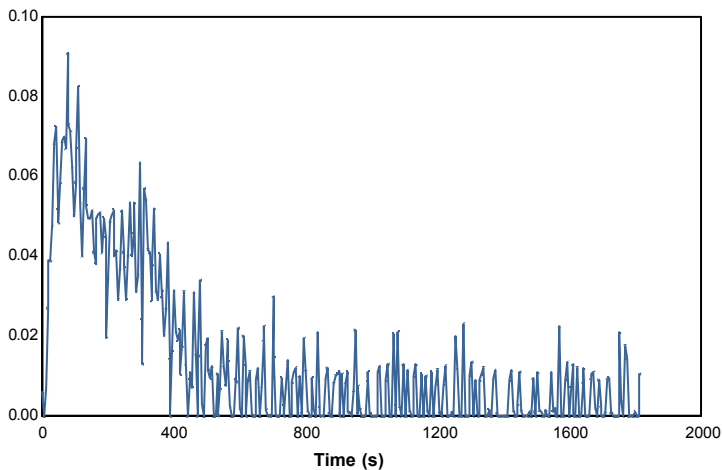
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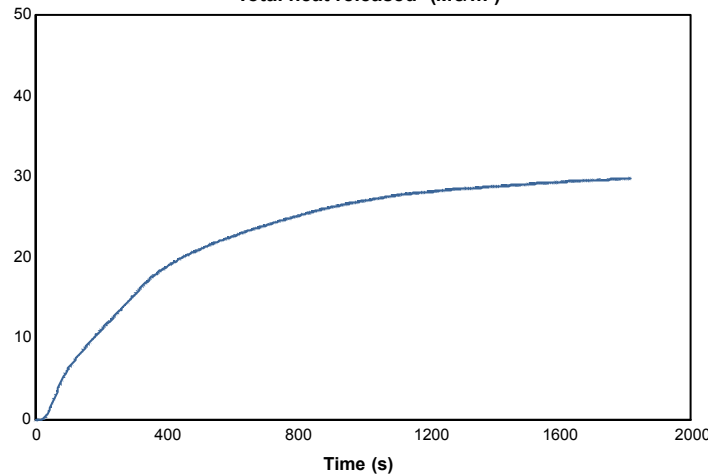
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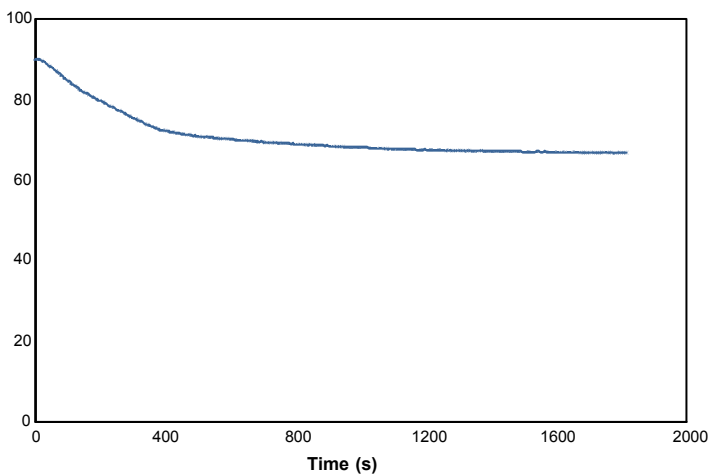
Mass loss rate (g/s)



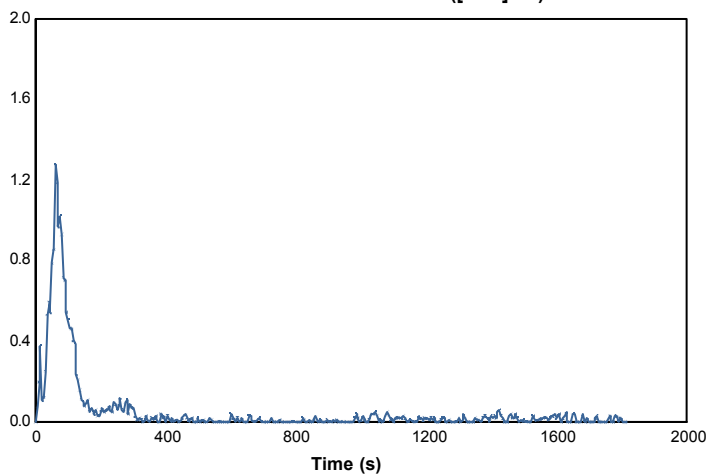
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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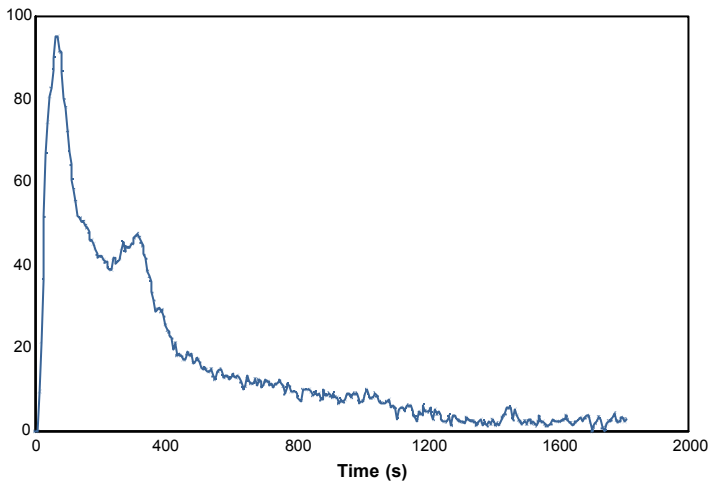
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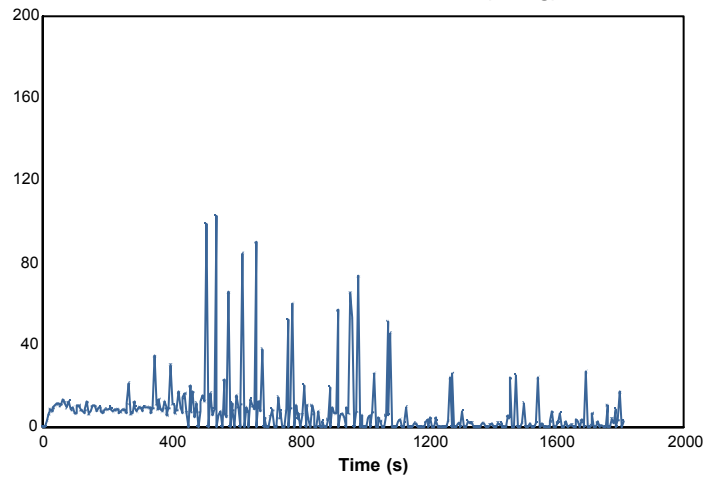
**Test Number :** 16-000849  
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**Specimen :** 2

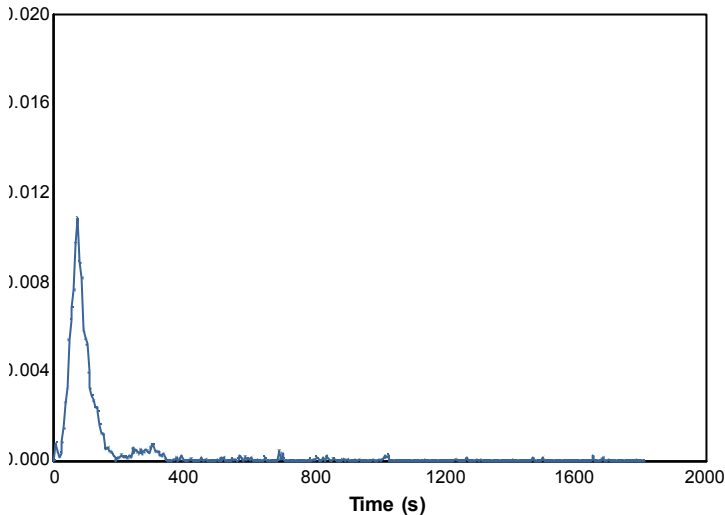
**Heat release rate (kW/m<sup>2</sup>)**



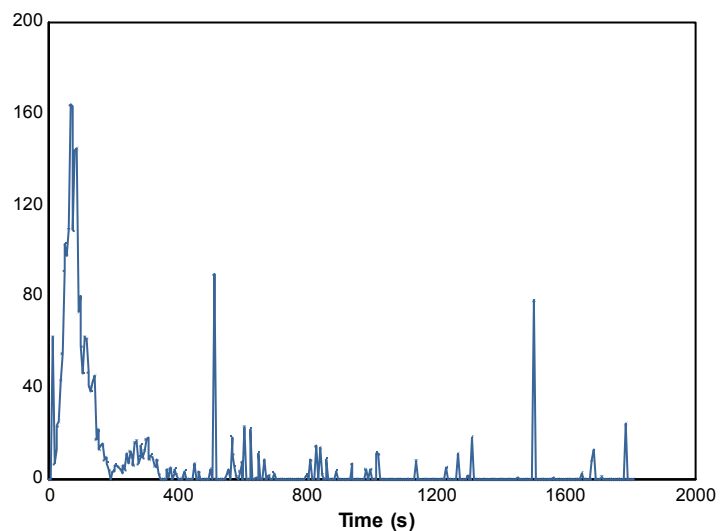
**Effective heat of combustion (MJ/kg)**



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



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



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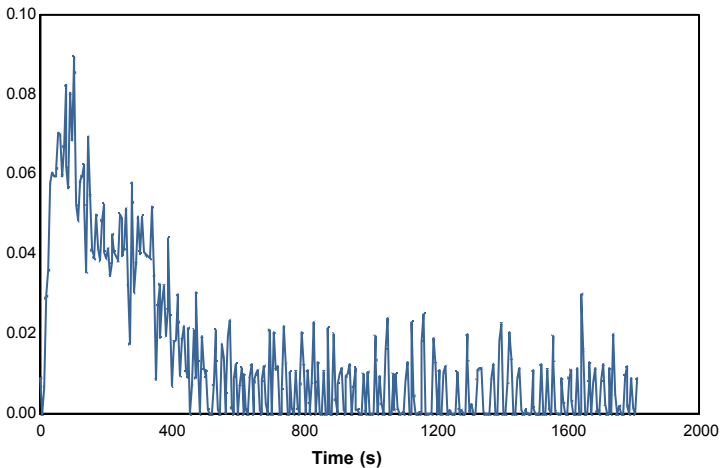
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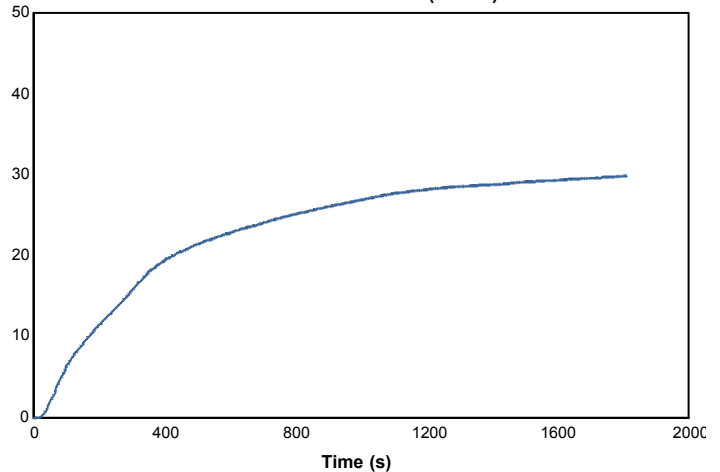
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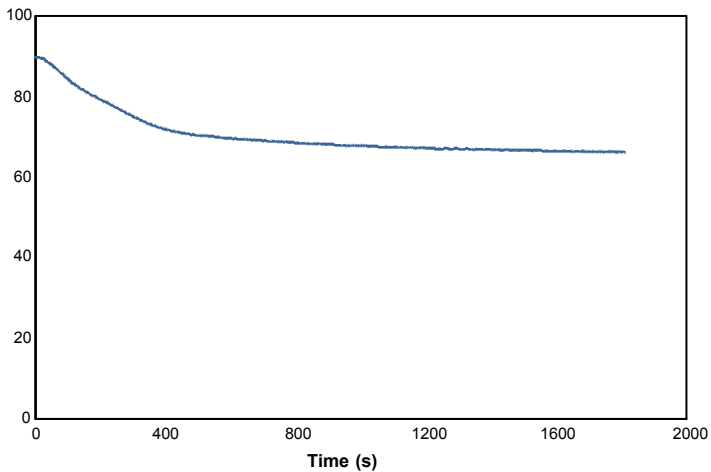
Mass loss rate (g/s)



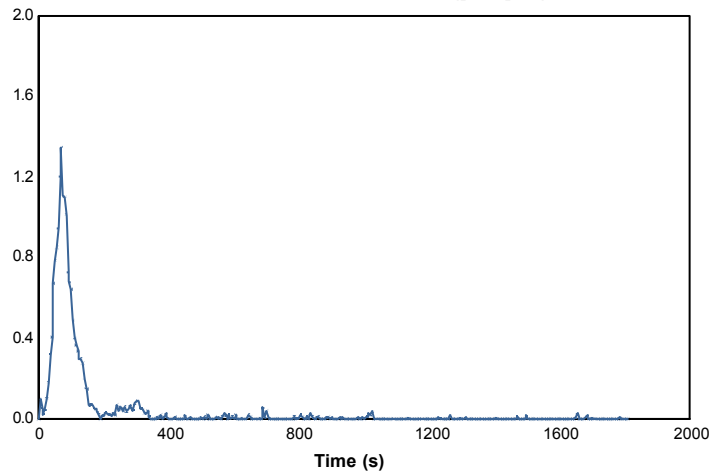
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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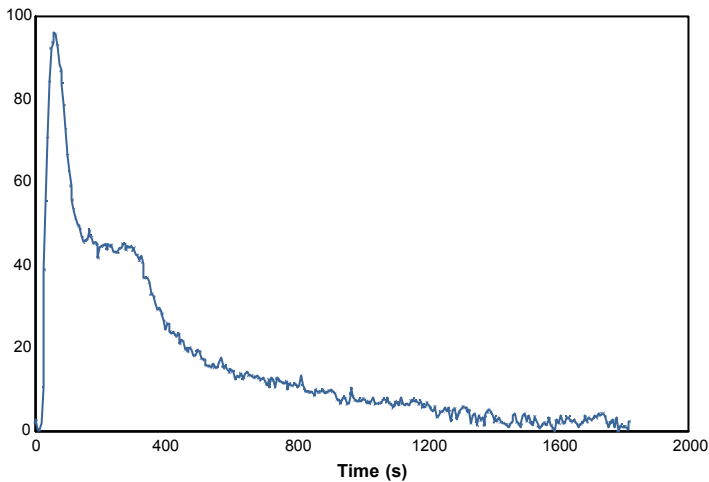
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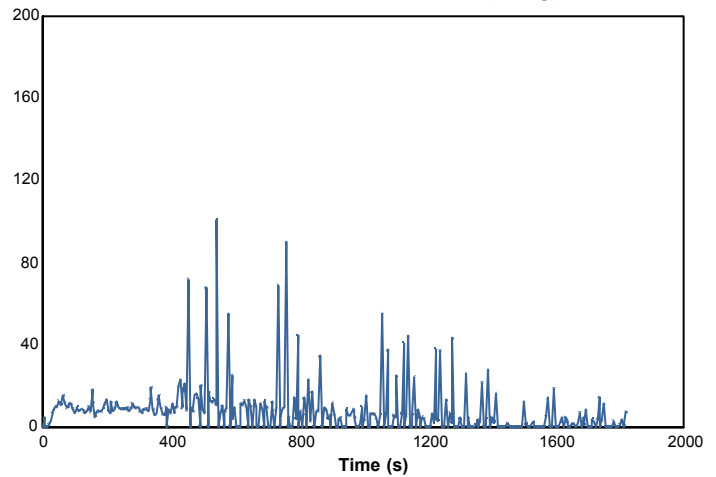
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**Specimen :** 3

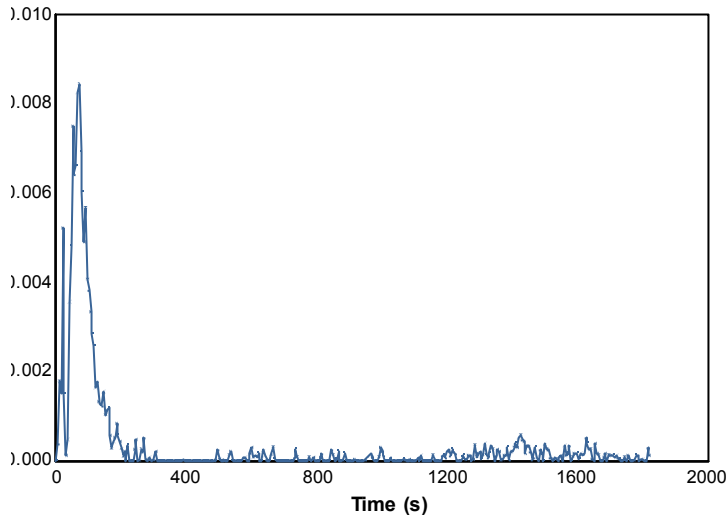
Heat release rate (kW/m<sup>2</sup>)



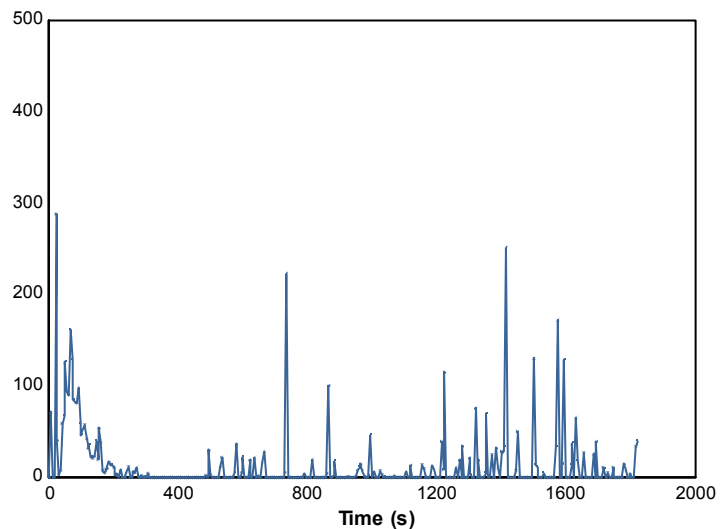
Effective heat of combustion (MJ/kg)



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



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



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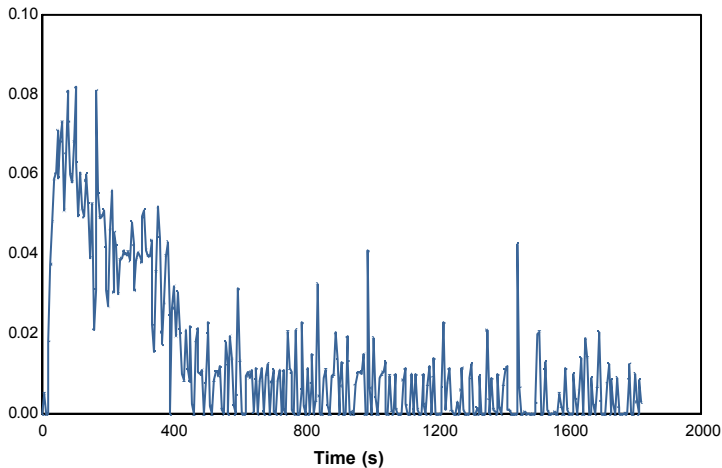
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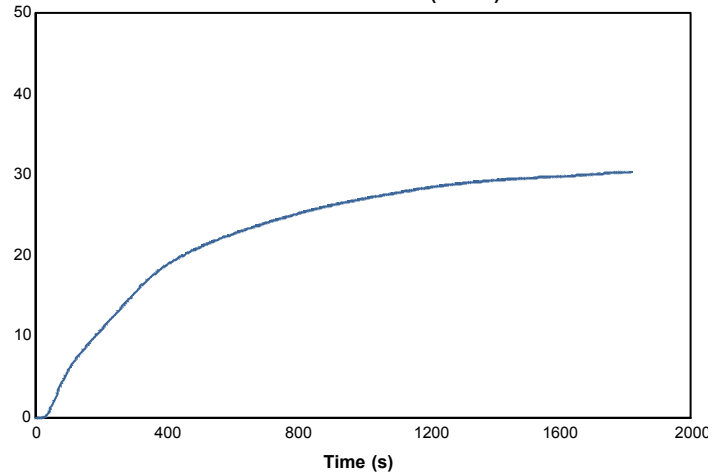
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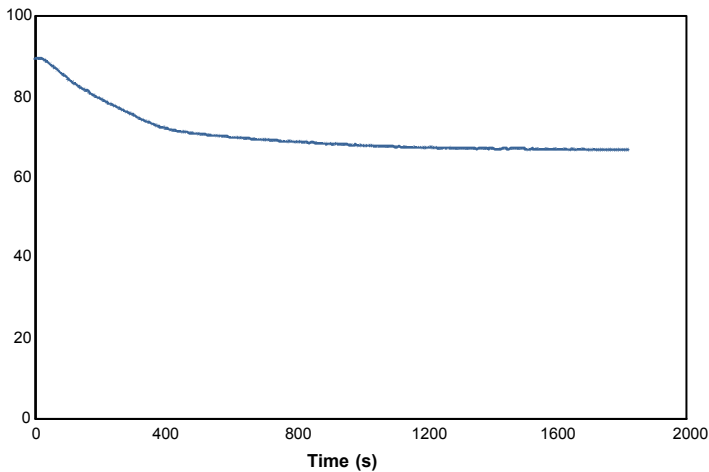
Mass loss rate (g/s)



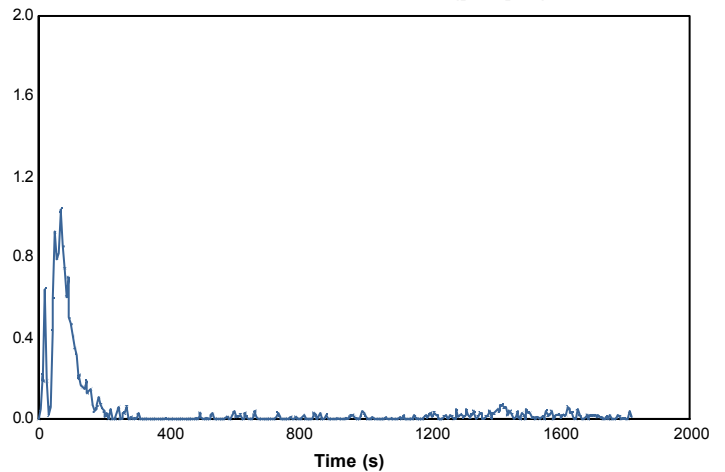
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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