

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 : 16-000855
Issue Date : 03/03/2016
Print Date : 3/03/2016

Sample Description Clients Ref : "SOVEREIGN"
Leather Swatches
Colour : Red
End Use : Furniture, Wall Panels etc
Nominal Composition : Leather Cowhide Bovine
Nominal Mass per Unit Area/Density : Approx: 1030g/m2
Nominal Thickness : 1.2-1.4mm

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	18.9	19.5	22.0	20.1	kW/m ²
Group Number Classification	3	3	3		

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

Average Specific extinction area	44.8	34.6	24.5	34.6	m ² /kg
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Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	27	24	29	27	sec
Test duration	1827	1824	1829	1827	sec

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Page 1 of 8

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

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

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Peak heat release after ignition	106.0	101.6	121.9	109.8	kW/m ²
Average heat at 60 s	89.8	84.7	96.6	90.4	kW/m ²
Average heat at 180 s	70.3	71.7	71.6	71.2	kW/m ²
Average heat at 300 s	61.2	62.5	60.7	61.5	kW/m ²
Total heat released	34.1	35.2	39.6	36.3	MJ/m ²
Average effective heat of combustion	12.2	12.0	14.1	12.8	MJ/kg
Initial thickness	7.5	7.5	7.5	7.5	mm
Initial mass	89.3	92.9	91.5	91.2	g
Mass remaining	66.2	68.8	68.2	67.7	g
Mass percentage pyrolysed	25.9	25.9	25.4	25.7	%
Mass loss	23.1	24.1	23.3	23.5	g
Average rate of mass loss	1.5	1.6	1.6	1.6	g/m ² .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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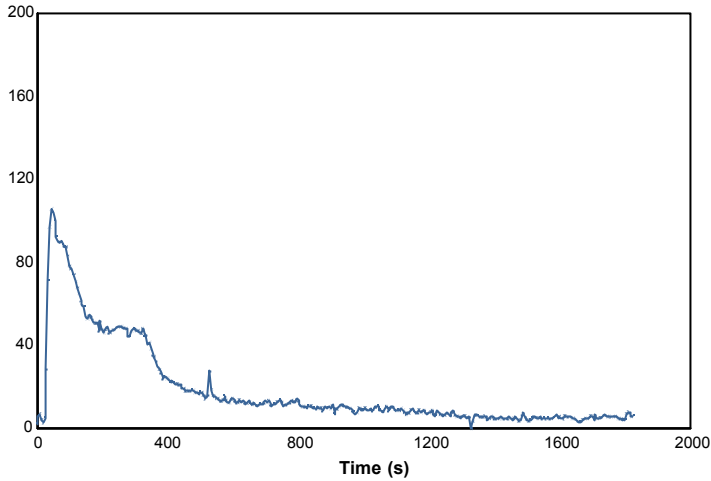
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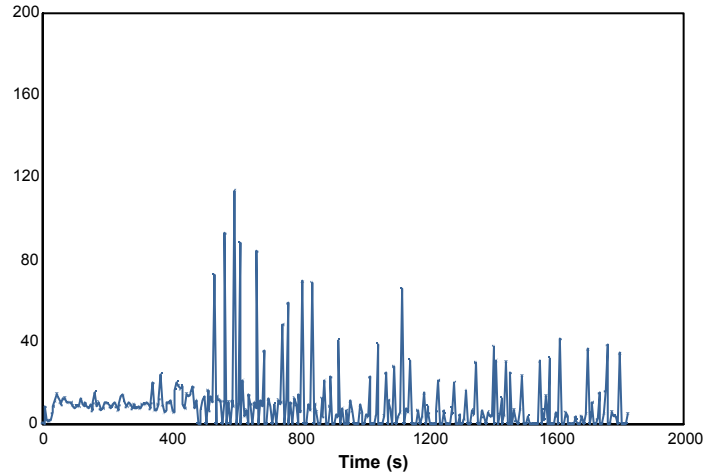
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Specimen : 1

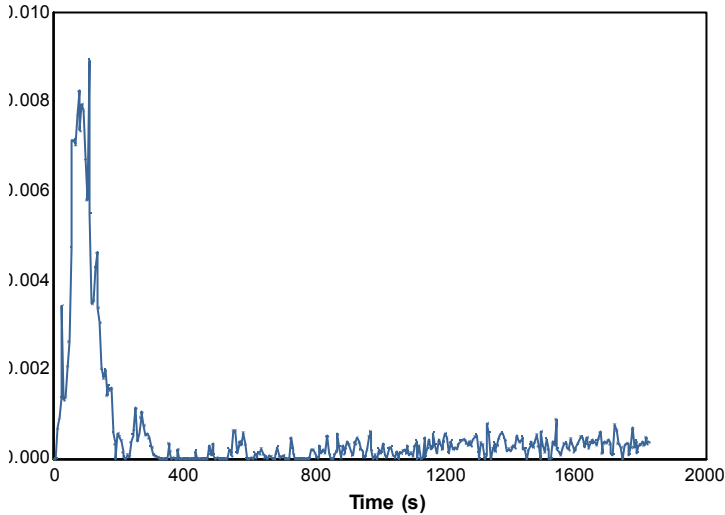
Heat release rate (kW/m²)



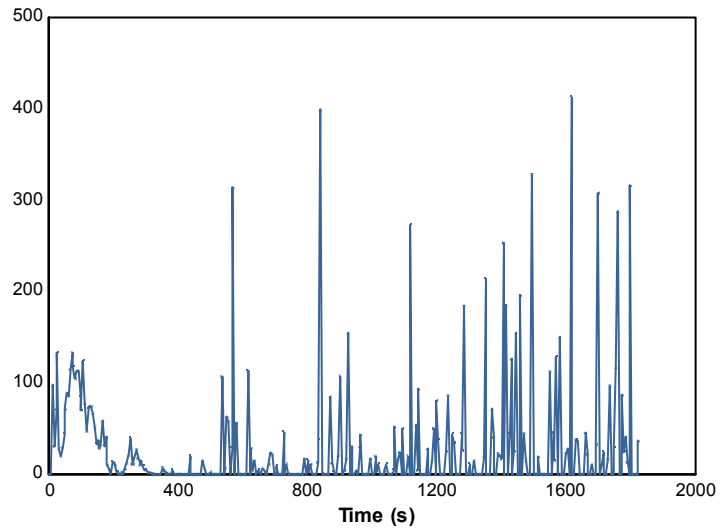
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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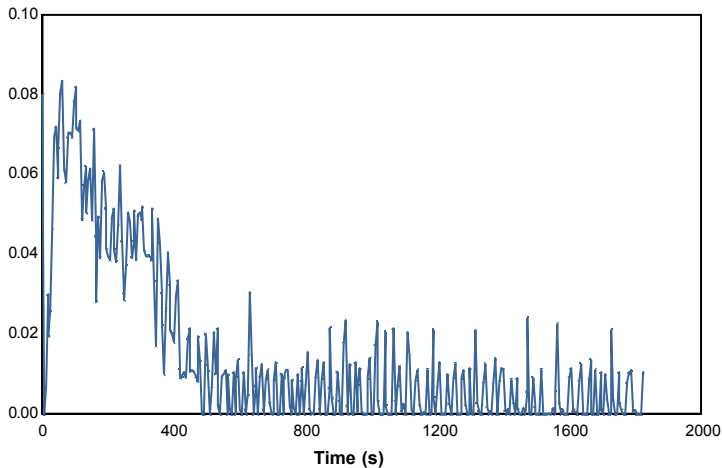
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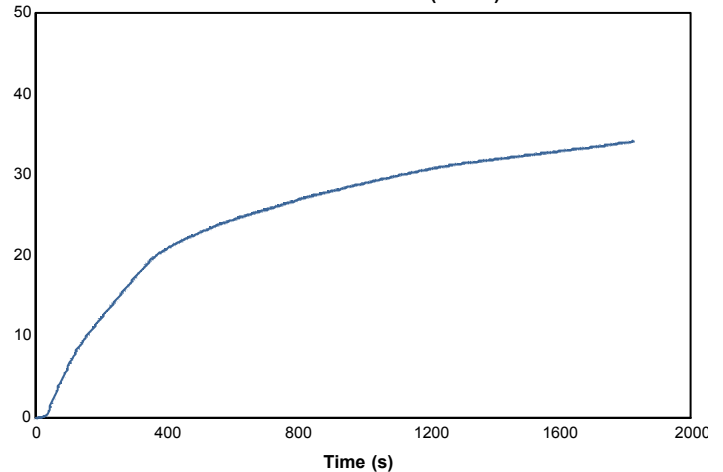
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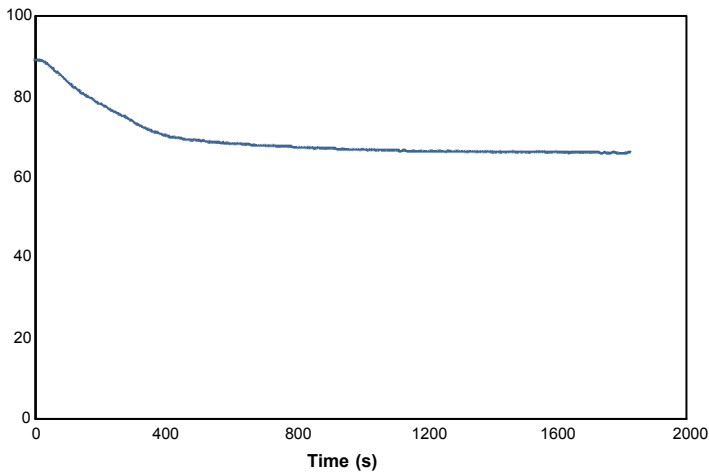
Mass loss rate (g/s)



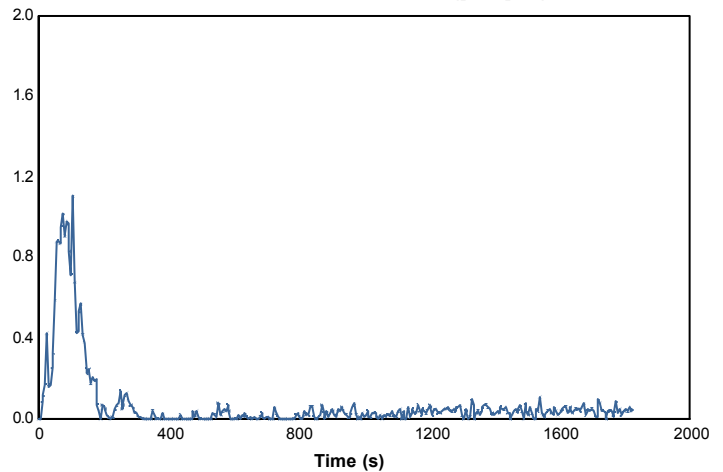
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s/m²)



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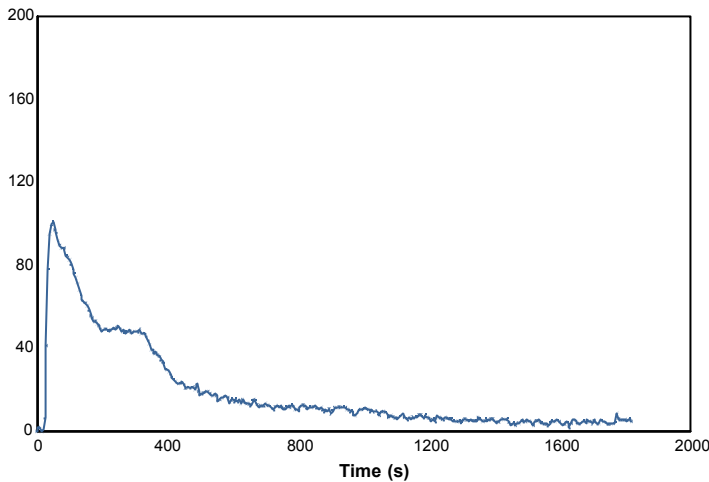
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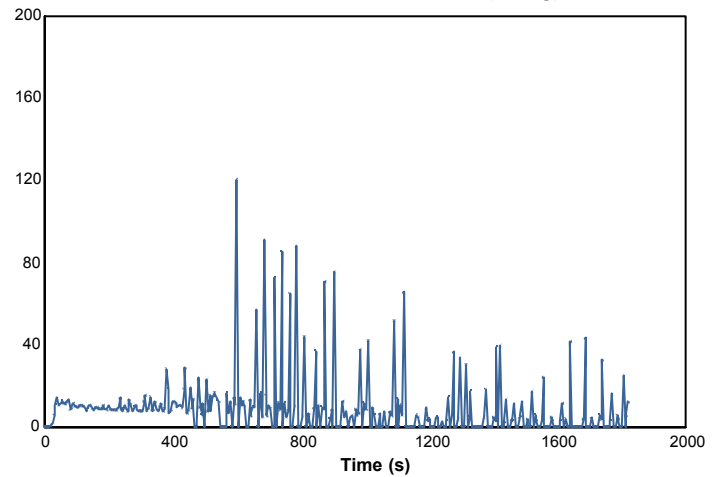
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Specimen : 2

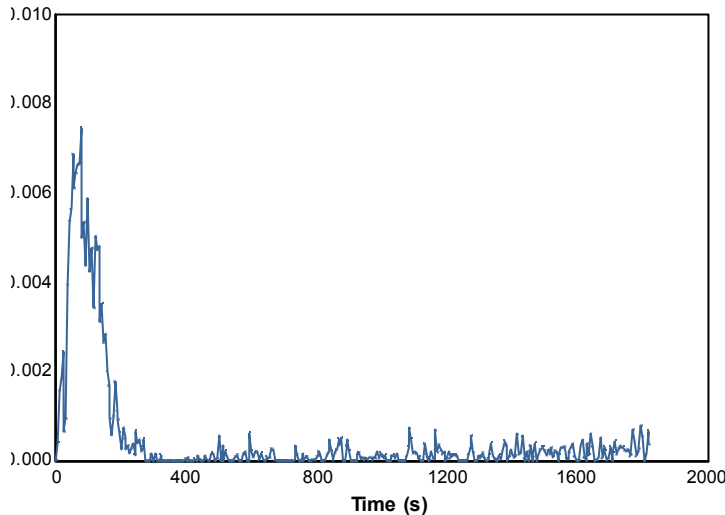
Heat release rate (kW/m²)



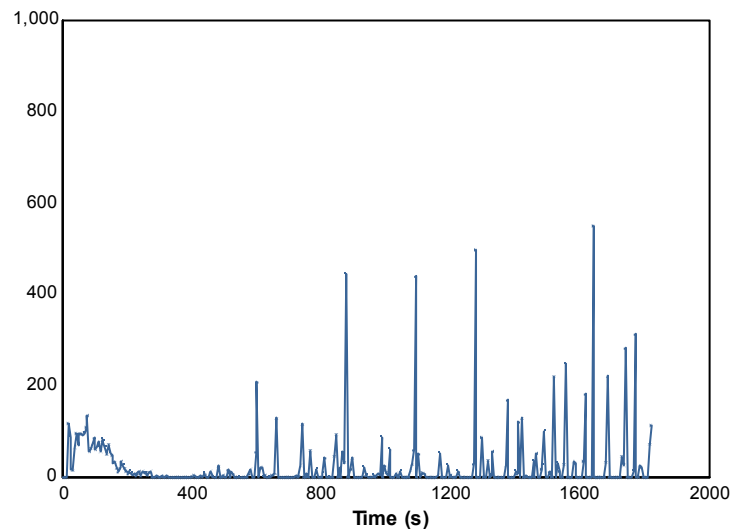
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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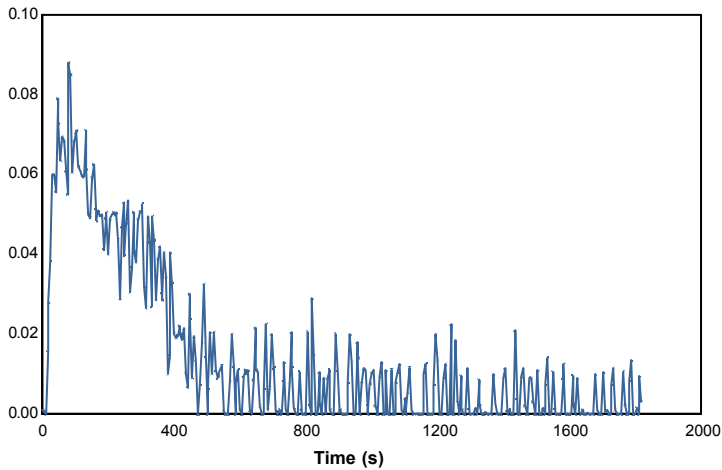
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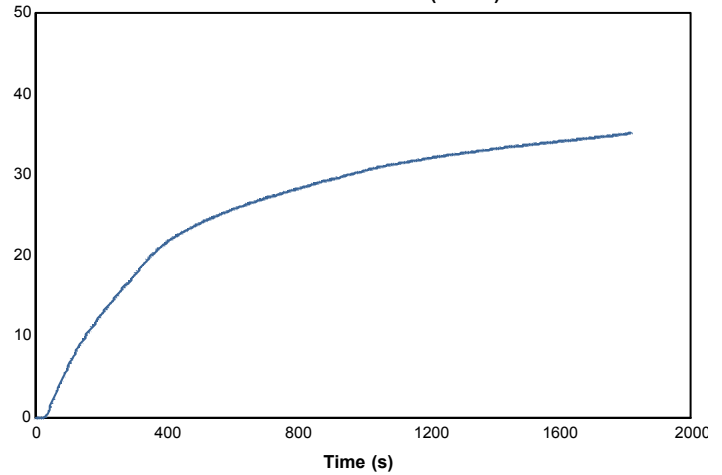
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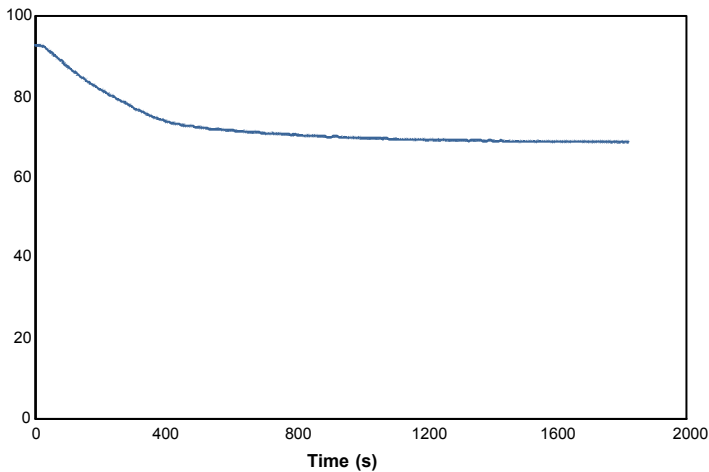
Mass loss rate (g/s)



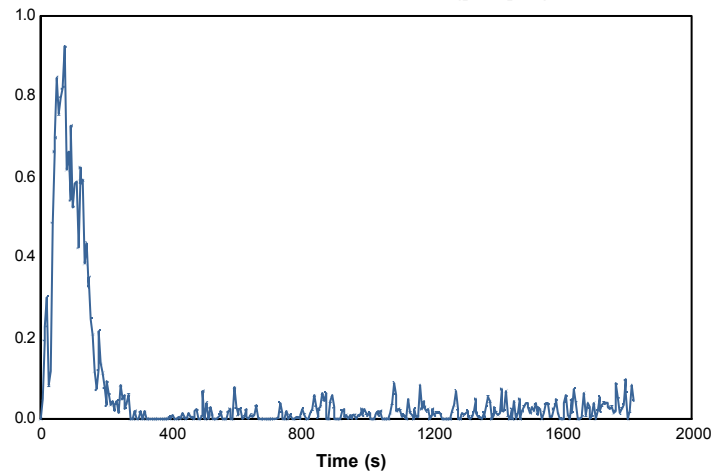
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²)



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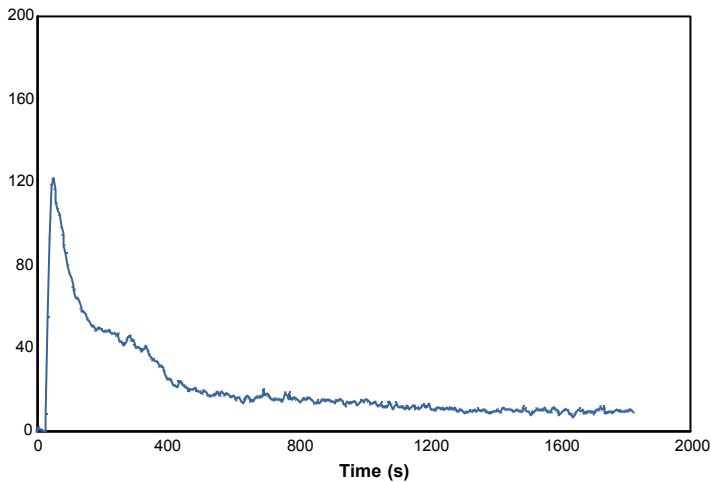
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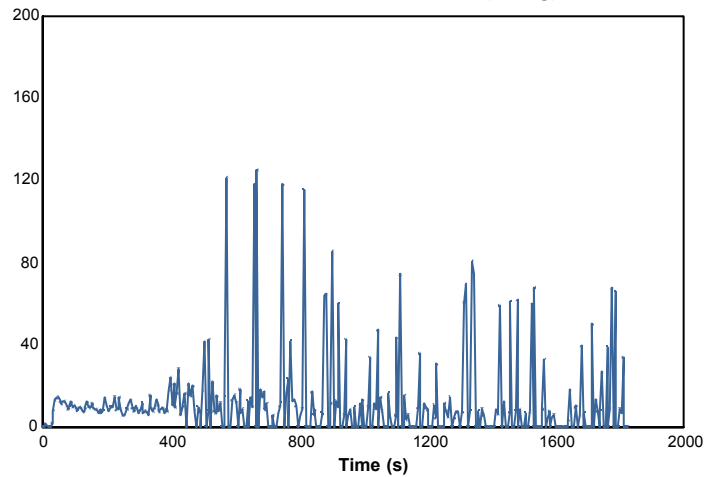
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Specimen : 3

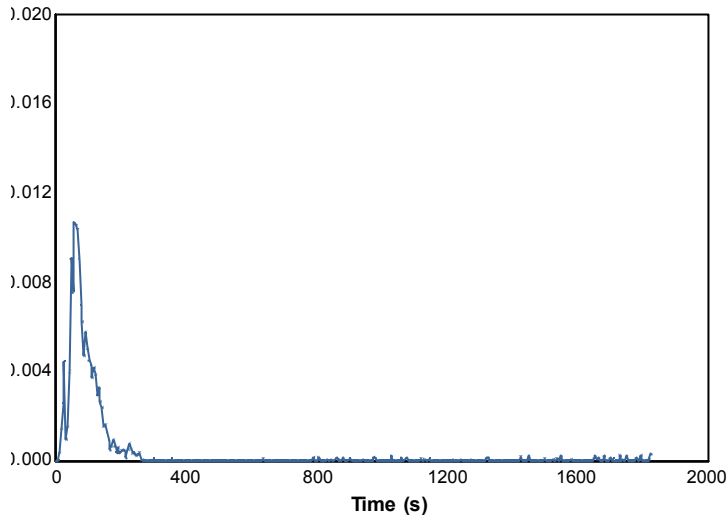
Heat release rate (kW/m²)



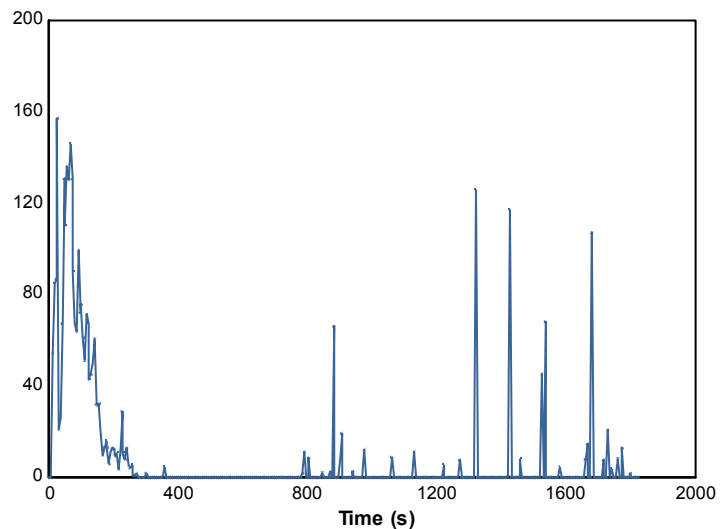
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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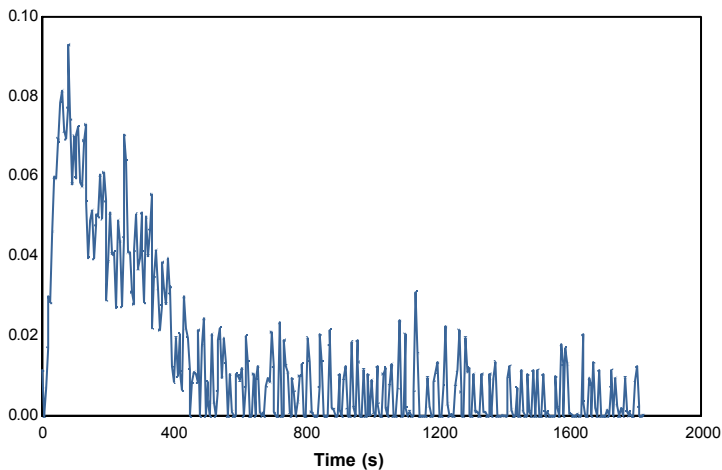
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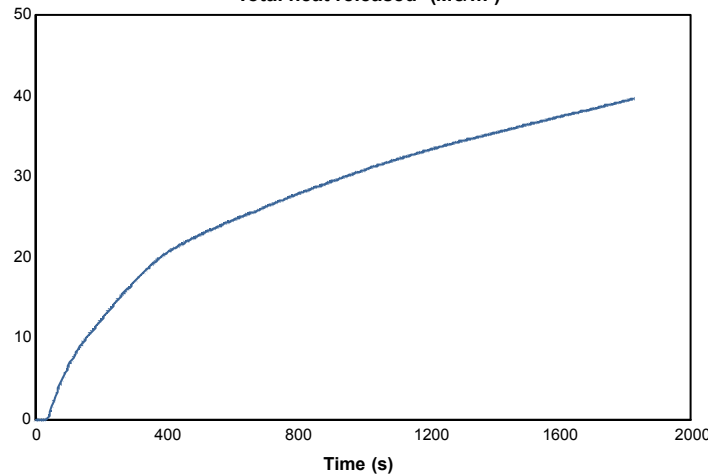
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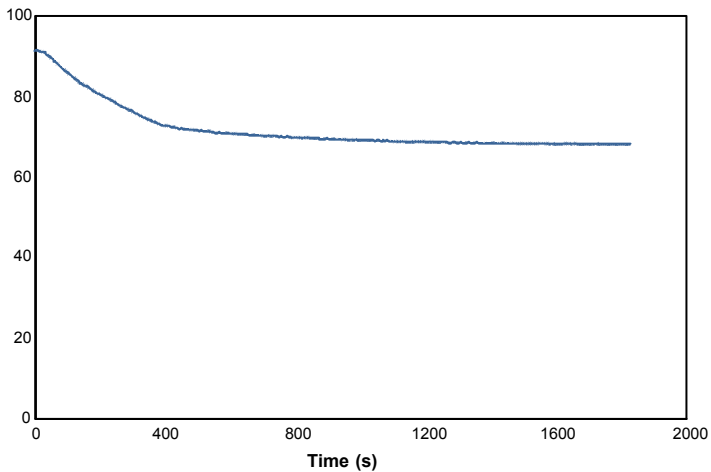
Mass loss rate (g/s)



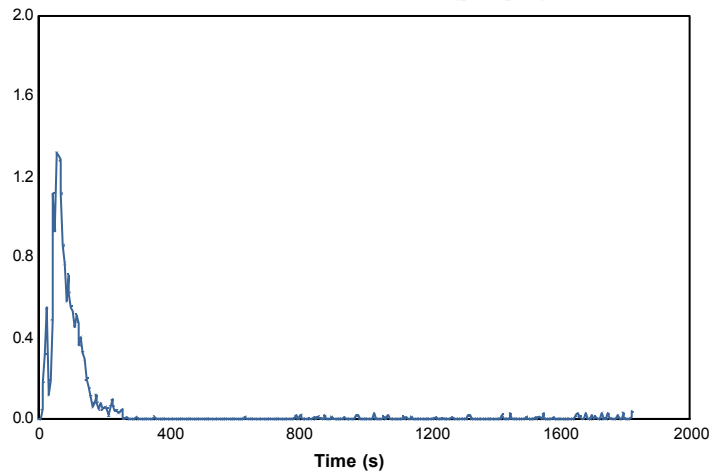
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²)



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