

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 : At Work With Camira
PO Box 37 378
Parnell Auckland 1052
New Zealand

Test Number : 14-000792
Issue Date : 13/11/2014
Print Date : 13/11/2014

Sample Description Clients Ref : "Blazer Lite"
Woven fabric
Colour : Purple
End Use : Wall Panels
Nominal Composition : 100% Wool
Nominal Mass per Unit Area/Density : 329g/m2

ISO 5660.1-2002

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	4.1	6.8	6.4	5.8	kW/m ²
Group Number Classification	2S	2S	2S		

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

Average Specific extinction area	25.6	58.1	54.0	45.9	m ² /kg
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(According to ISO 5660.2-2002)

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	8	10	10	9	sec
Test duration	1808	1808	1810	1809	sec

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Peak heat release after ignition	102.4	105.3	105.2	104.3	kW/m ²
Average heat at 60 s	52.6	54.4	54.1	53.7	kW/m ²
Average heat at 180 s	19.3	22.5	21.5	21.1	kW/m ²
Average heat at 300 s	14.3	18.3	17.0	16.5	kW/m ²
Total heat released	7.4	12.3	11.5	10.4	MJ/m ²
Average effective heat of combustion	3.9	6.6	6.2	5.6	MJ/kg
Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	93.6	93.8	93.9	93.8	g
Mass remaining	78.4	78.7	78.4	78.5	g
Mass percentage pyrolysed	16.2	16.1	16.5	16.3	g
Mass loss	15.2	15.1	15.5	15.3	g
Average rate of mass loss	1.0	1.0	1.0	1.0	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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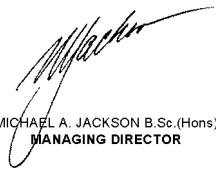
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APPROVED SIGNATORY


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

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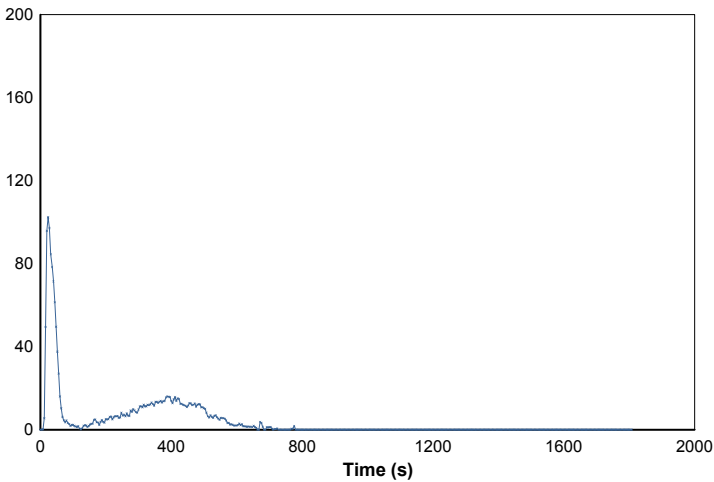
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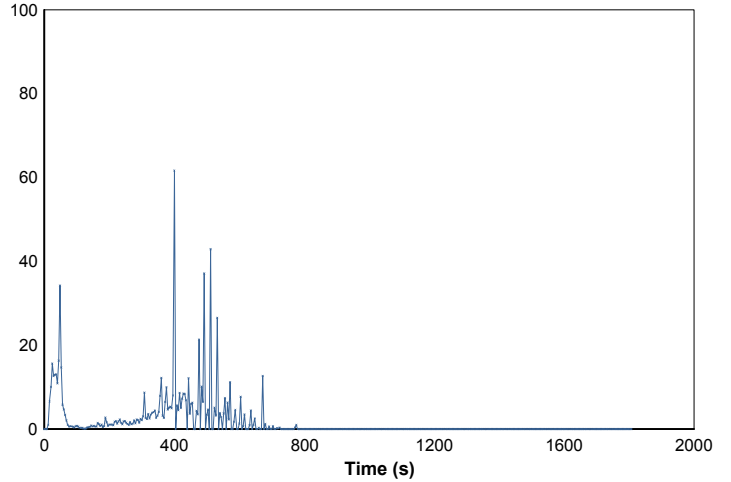
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Specimen : 1

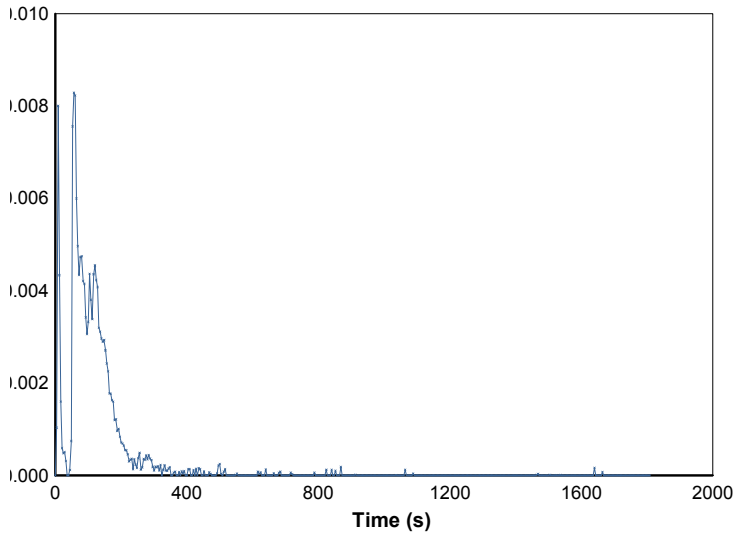
Heat release rate (kW/m²)



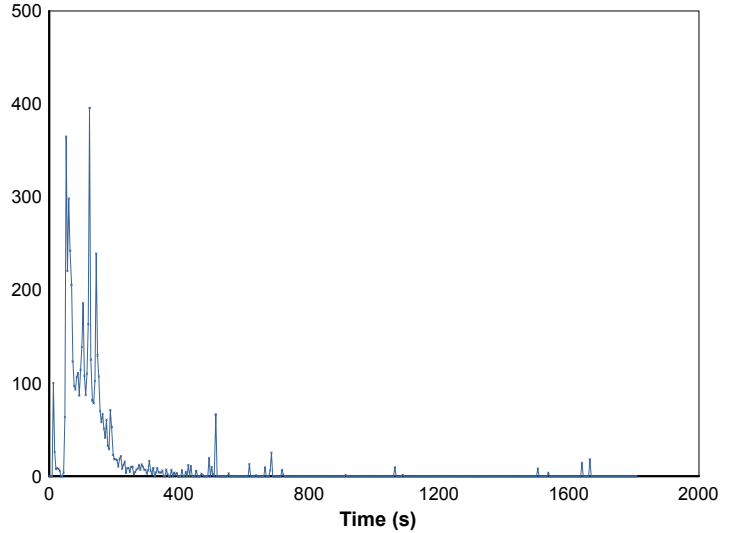
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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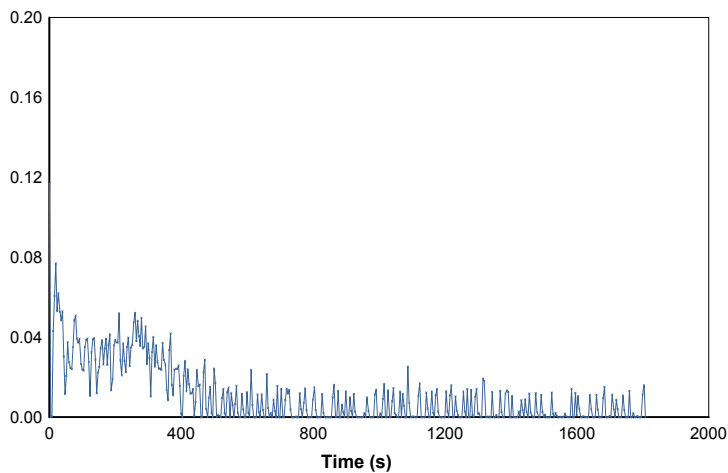
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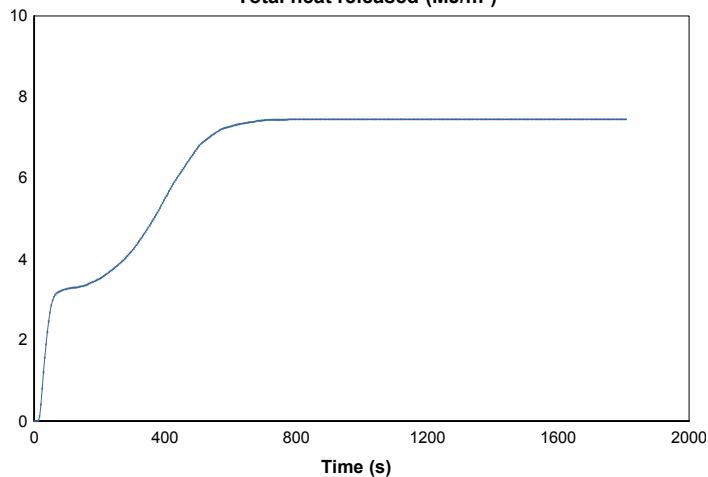
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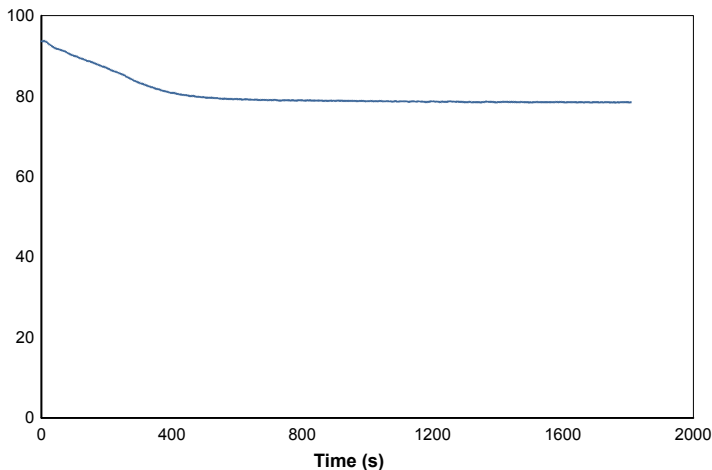
Mass loss rate (g/s)



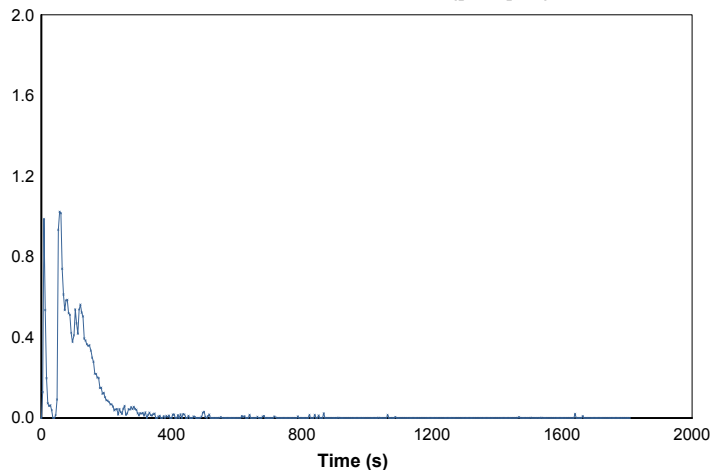
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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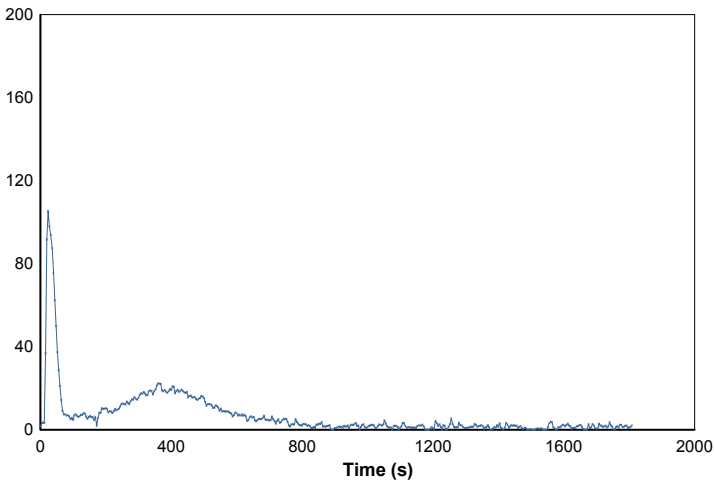
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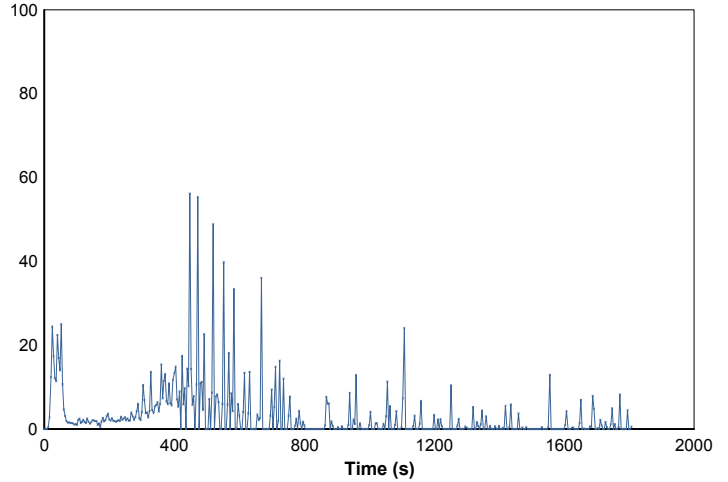
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Specimen : 2

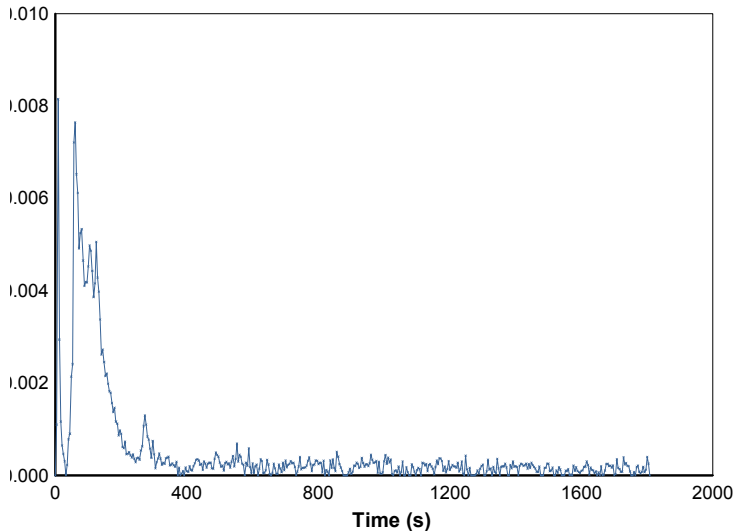
Heat release rate (kW/m²)



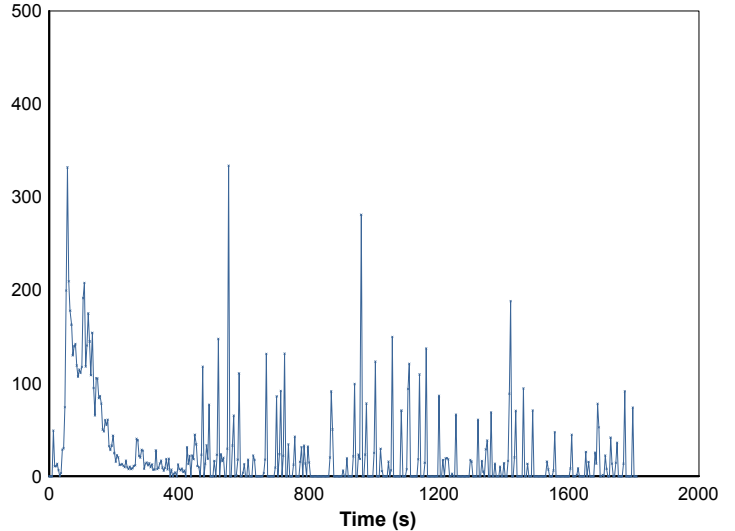
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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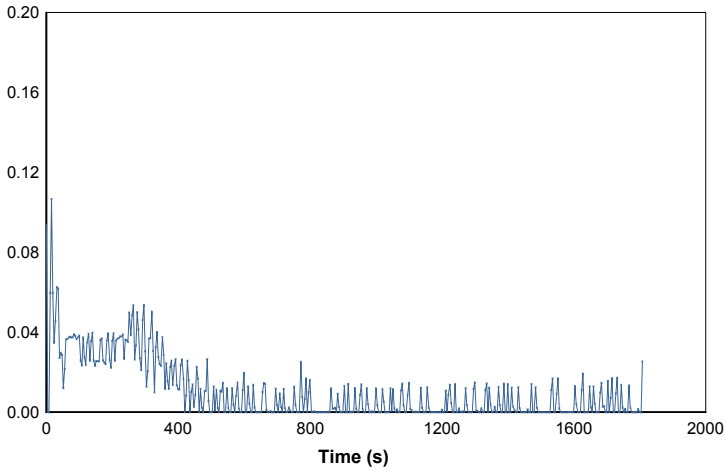
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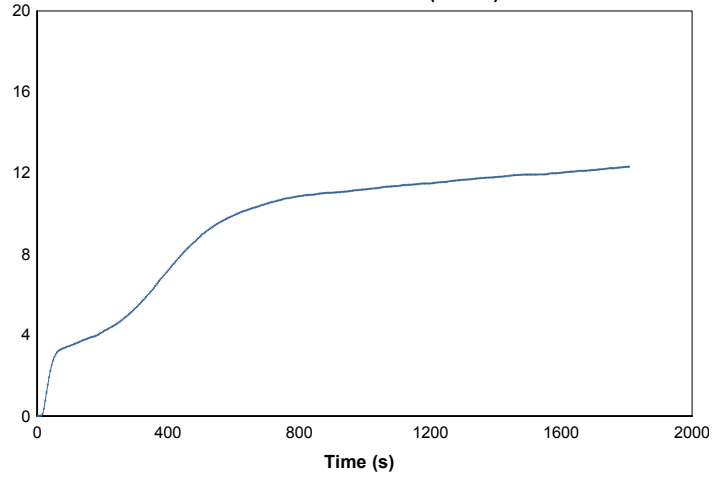
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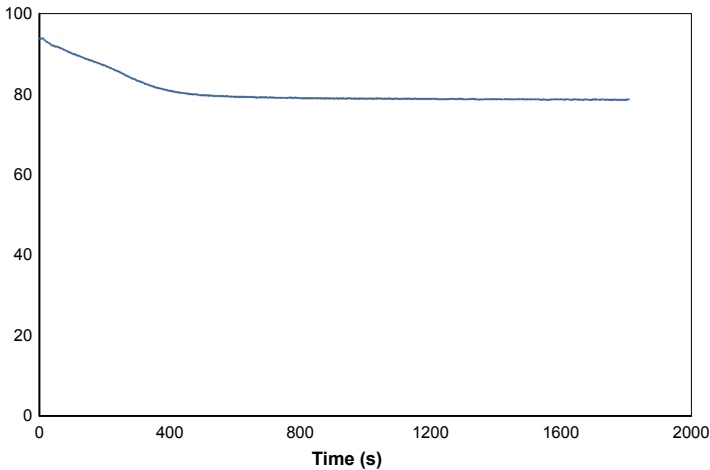
Mass loss rate (g/s)



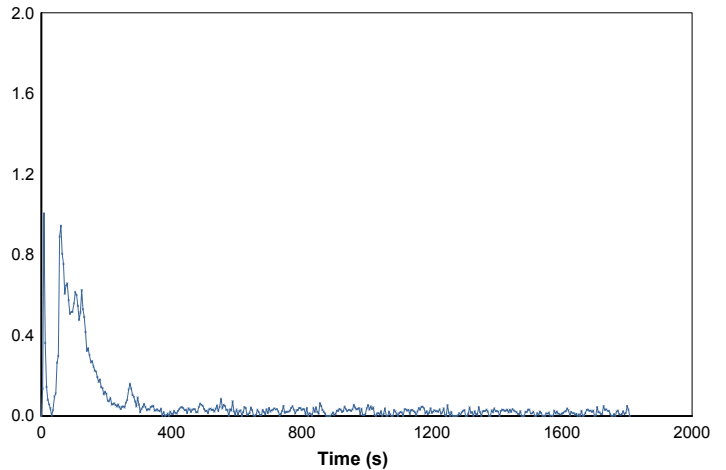
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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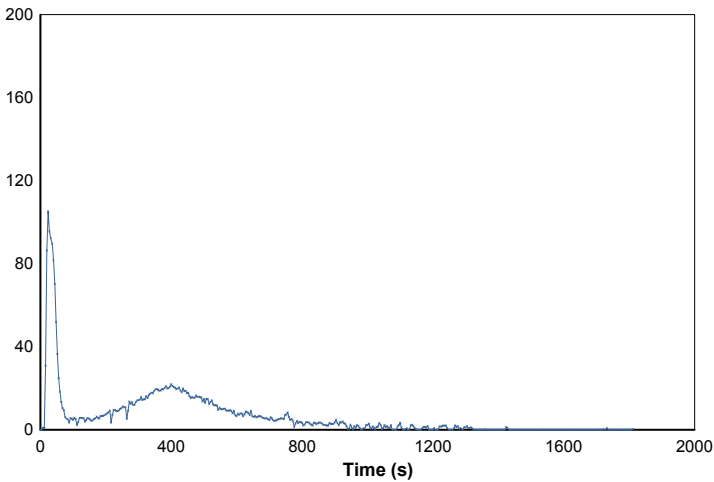
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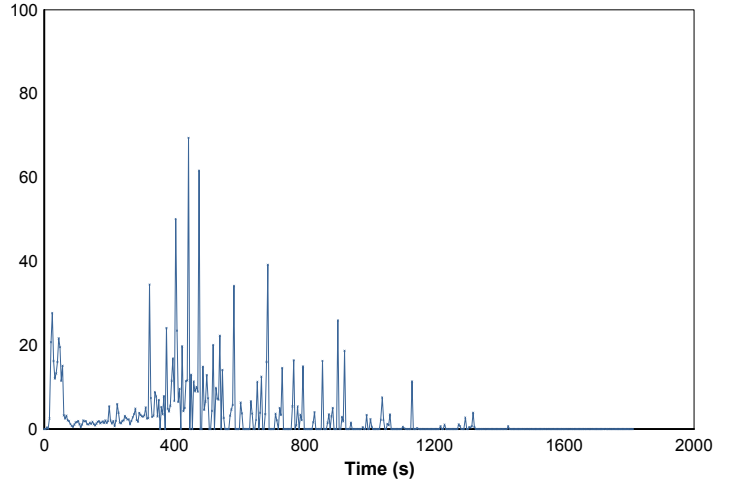
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Specimen : 3

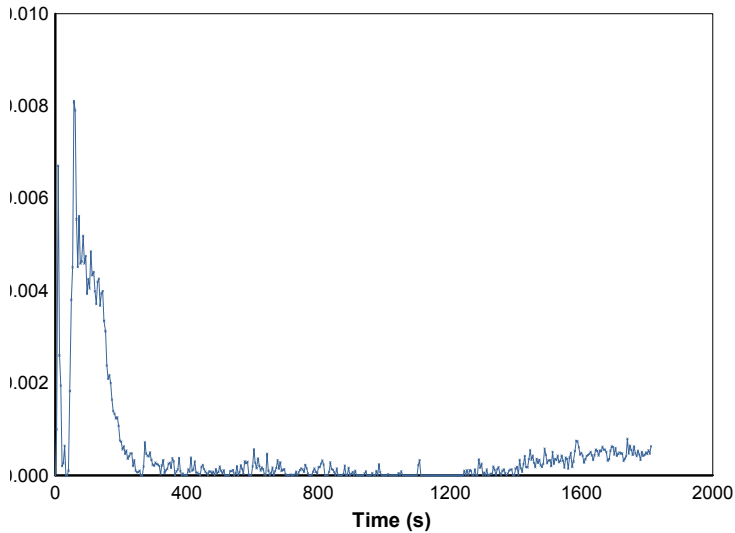
Heat release rate (kW/m²)



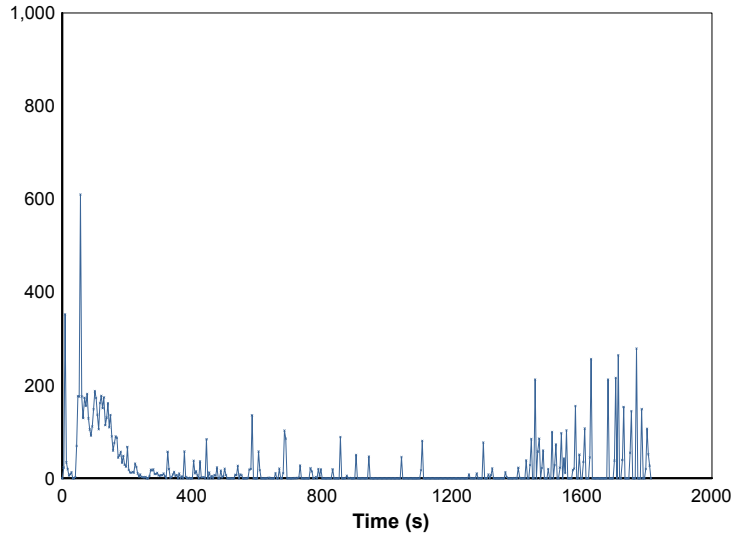
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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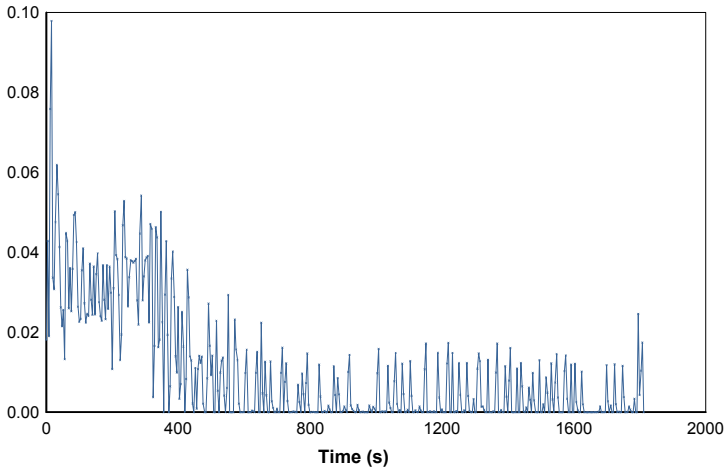
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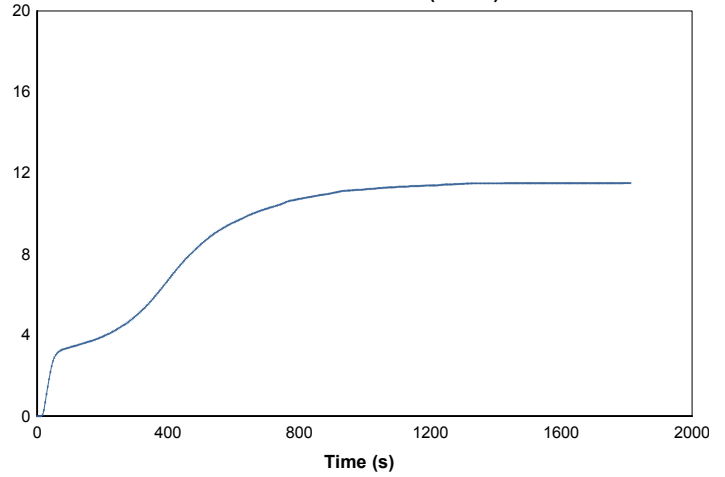
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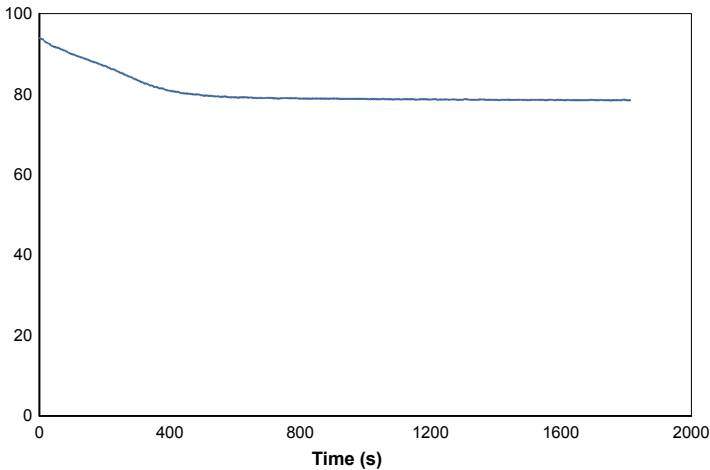
Mass loss rate (g/s)



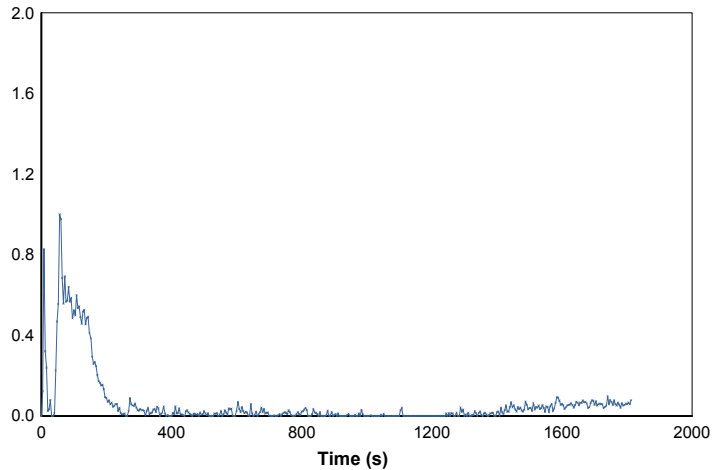
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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