

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 : EGR Group
40 Machinery Street
Darra QLD 4076

Test Number : 16-000643
Issue Date : 22/02/2016
Print Date : 23/02/2016
Order Number : 391745

Sample Description Clients Ref : "16mm MDF Laminated with 1mm Stylelite both side"
Laminated board
Colour : Black
End Use : Doors, Kitchen Cabinets
Nominal Composition : ABS, PMMA, MDF
Nominal Mass per Unit Area/Density : 800kg/m³
Nominal Thickness : Approx total: 18mm

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	114.4	110.9	108.4	111.2	kW/m ²
Average Specific extinction area	210.0	204.1	210.6	208.2	m ² /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 ²
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	26	24	25	25	sec
Test duration	2075	2020	2025	2040	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

0204/11/06

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Peak heat release after ignition	561.1	586.8	581.3	576.4	kW/m ²
Average heat at 60 s	449.4	441.0	432.6	441.0	kW/m ²
Average heat at 180 s	334.6	343.4	337.5	338.5	kW/m ²
Average heat at 300 s	256.3	257.8	254.6	256.2	kW/m ²
Total heat released	234.3	221.2	216.7	224.1	MJ/m ²
Average effective heat of combustion	16.8	15.8	15.6	16.1	MJ/kg
Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	135.6	135.6	135.6	135.6	g
Mass remaining	22.3	22.4	22.7	22.5	g
Mass percentage pyrolysed	83.5	83.5	83.2	83.4	%
Mass loss	113.3	113.2	112.9	113.1	g
Average rate of mass loss	6.8	7.0	7.0	6.9	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.

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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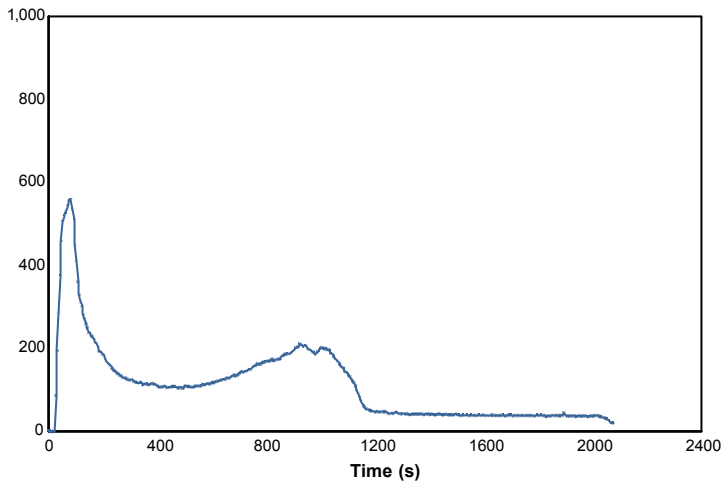
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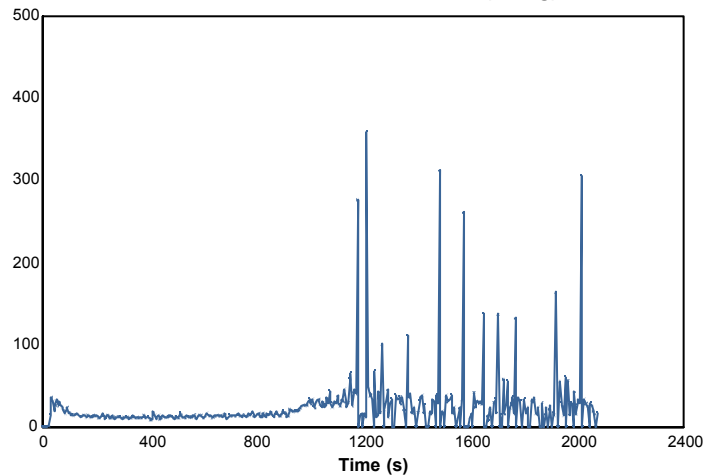
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Specimen : 1

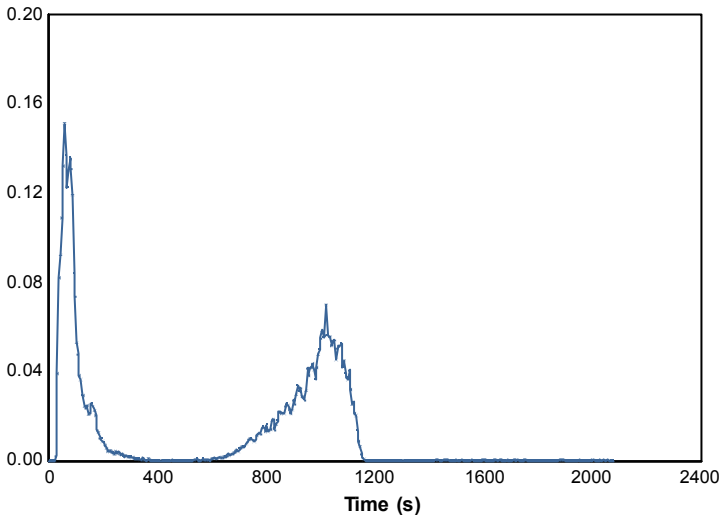
Heat release rate (kW/m²)



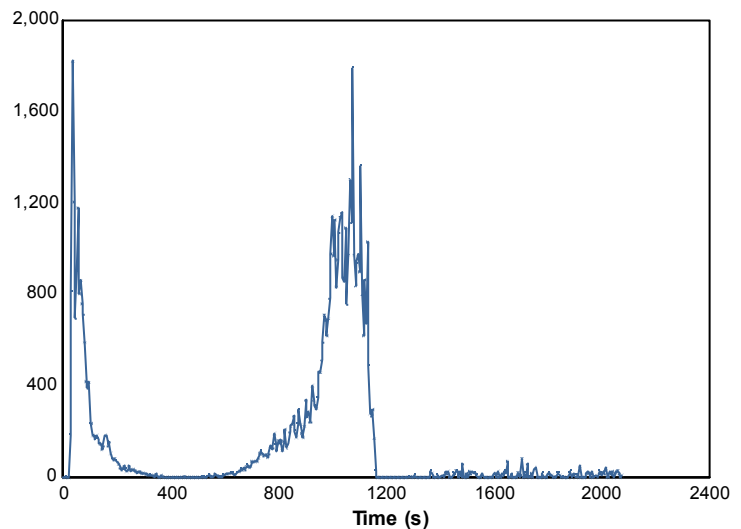
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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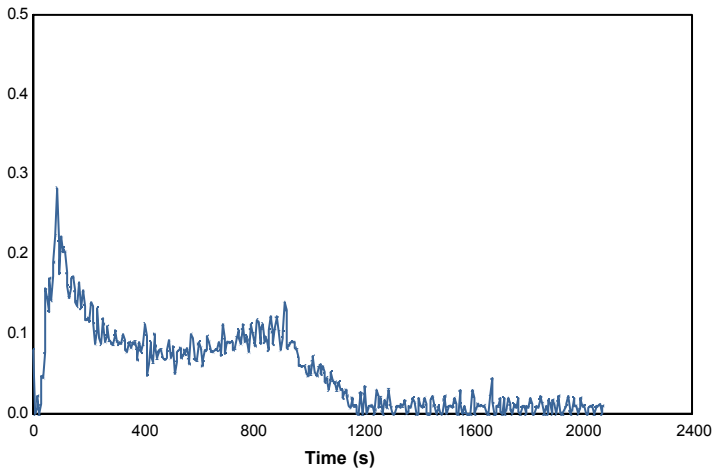
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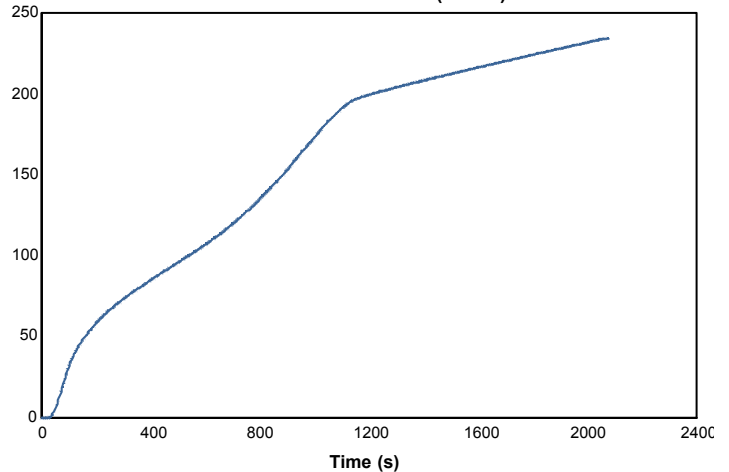
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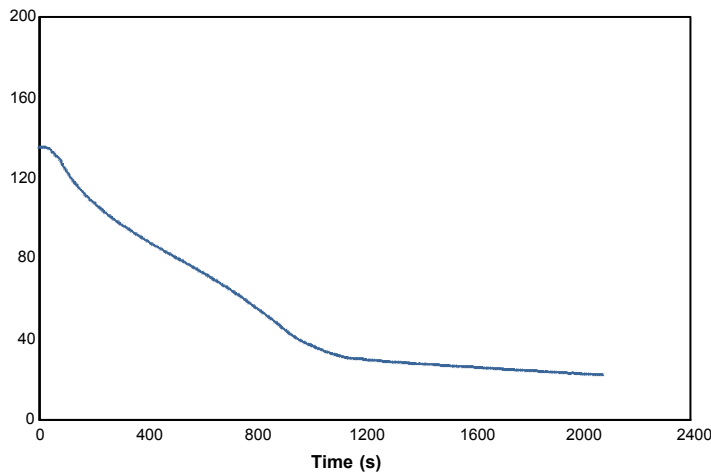
Mass loss rate (g/s)



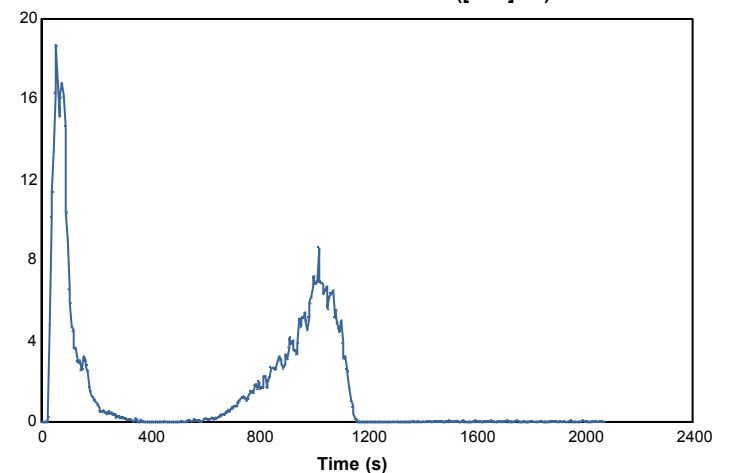
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s/m²)



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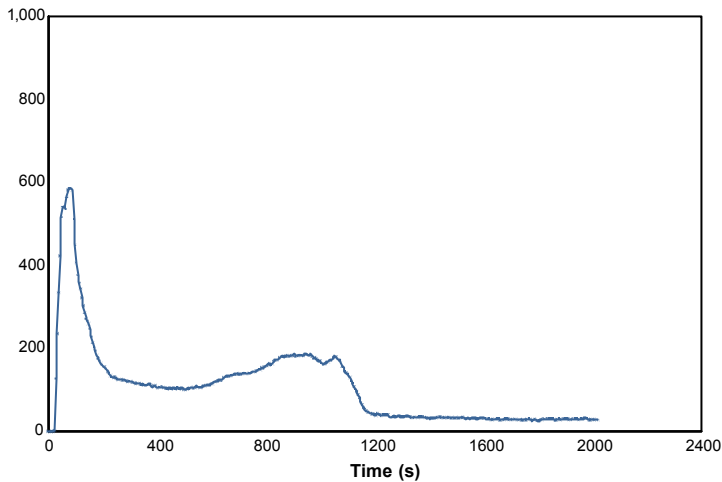
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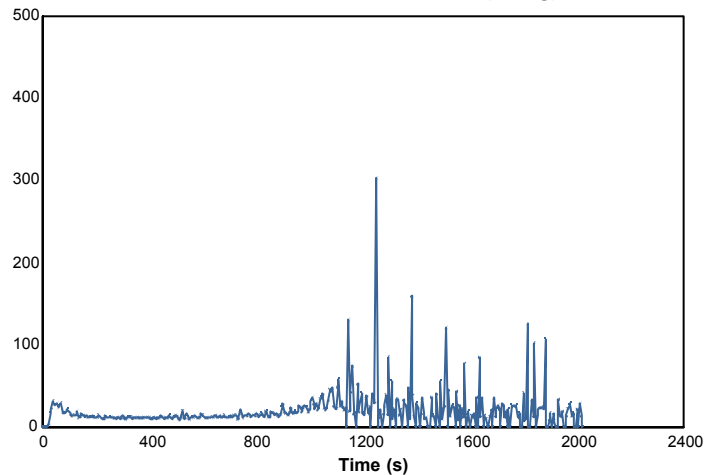
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Specimen : 2

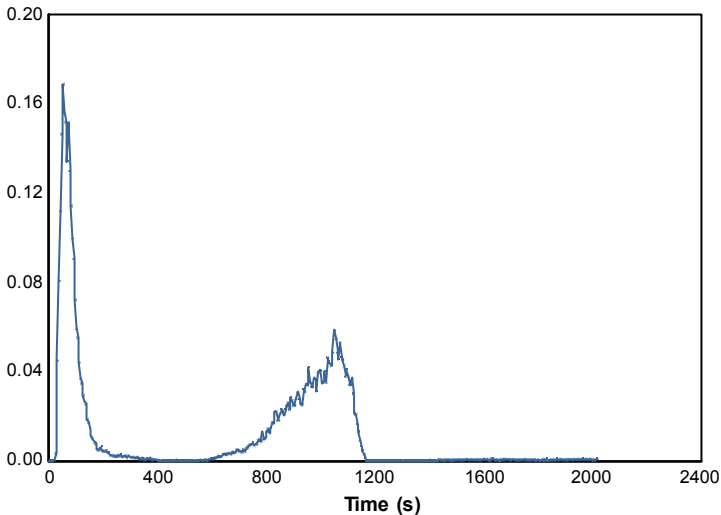
Heat release rate (kW/m²)



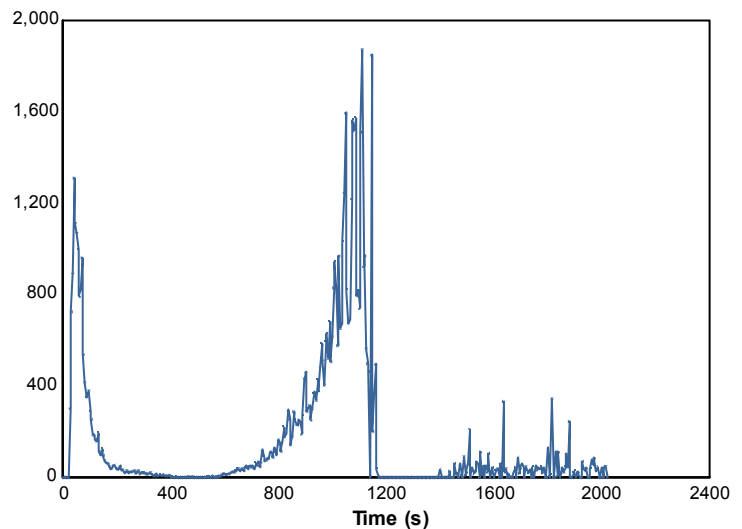
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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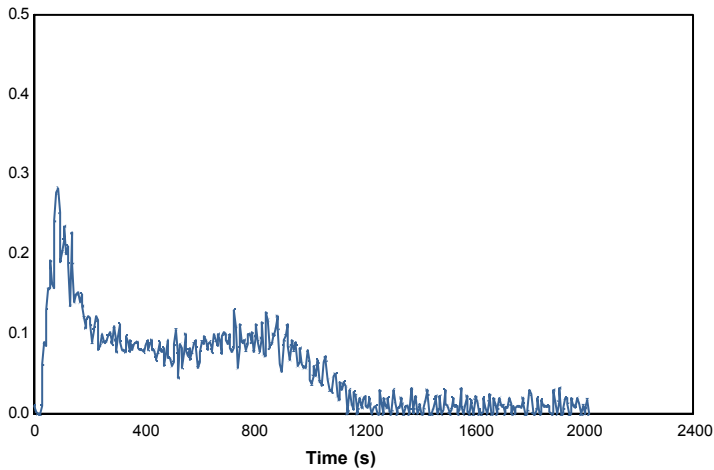
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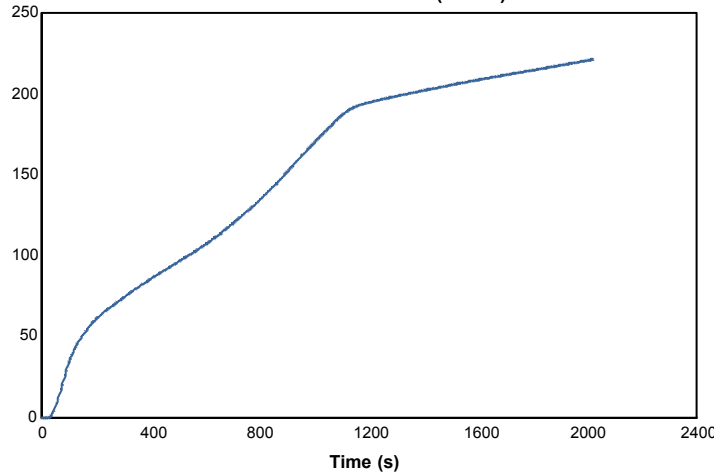
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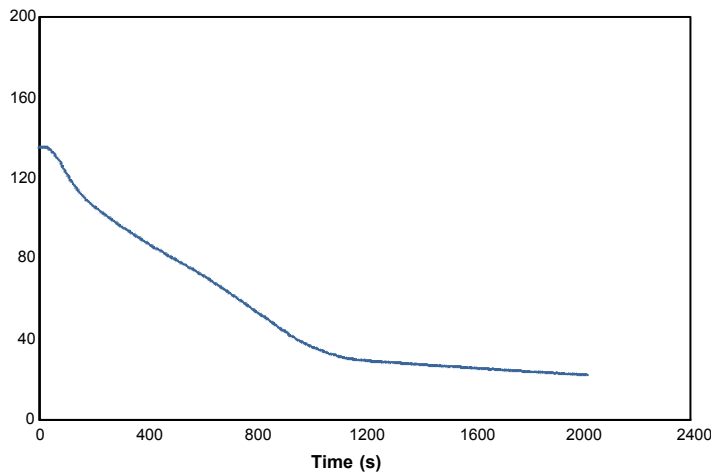
Mass loss rate (g/s)



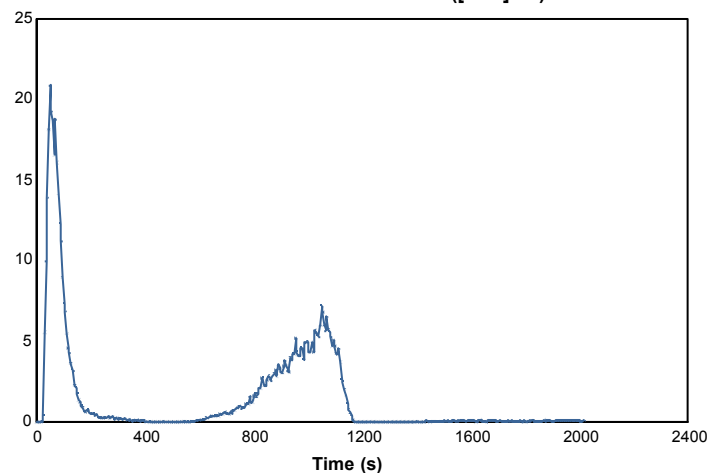
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²)



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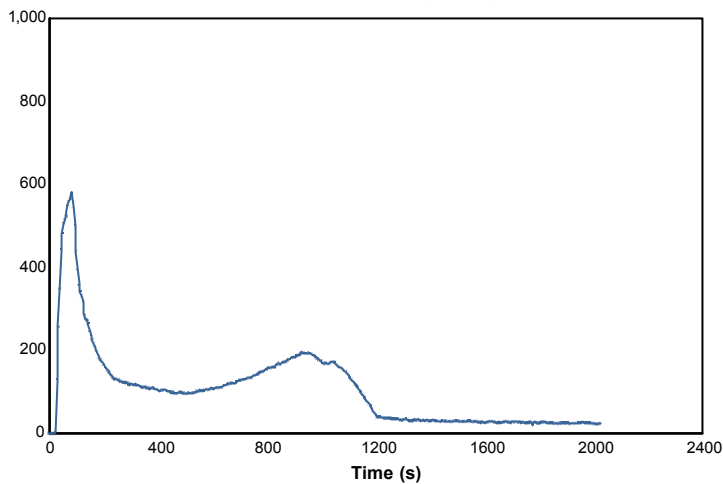
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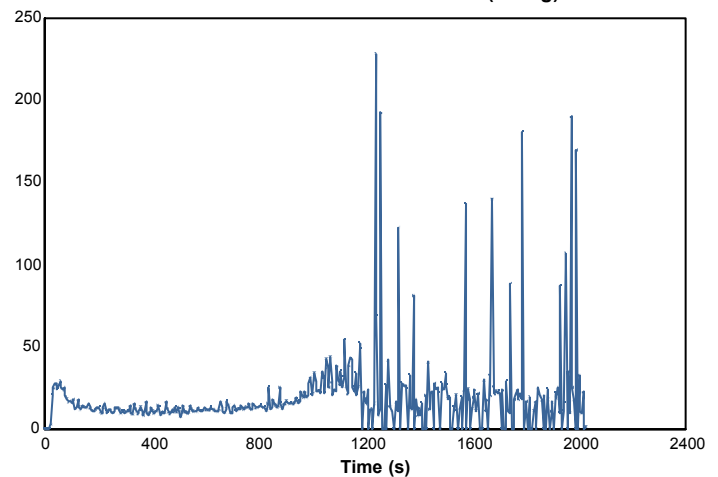
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Specimen : 3

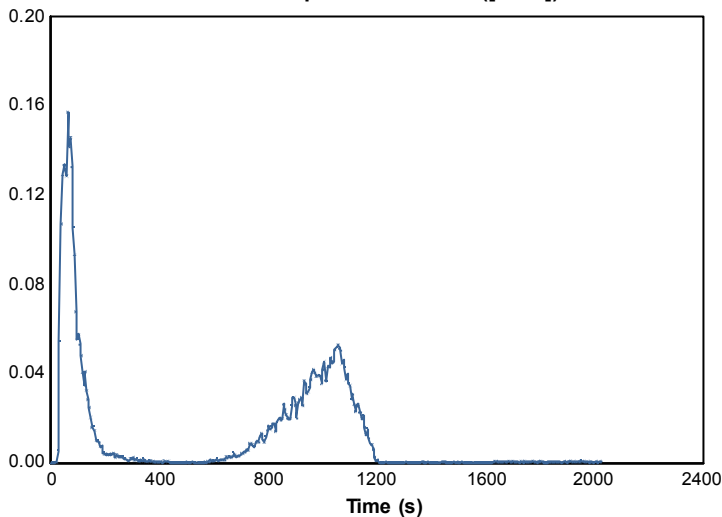
Heat release rate (kW/m²)



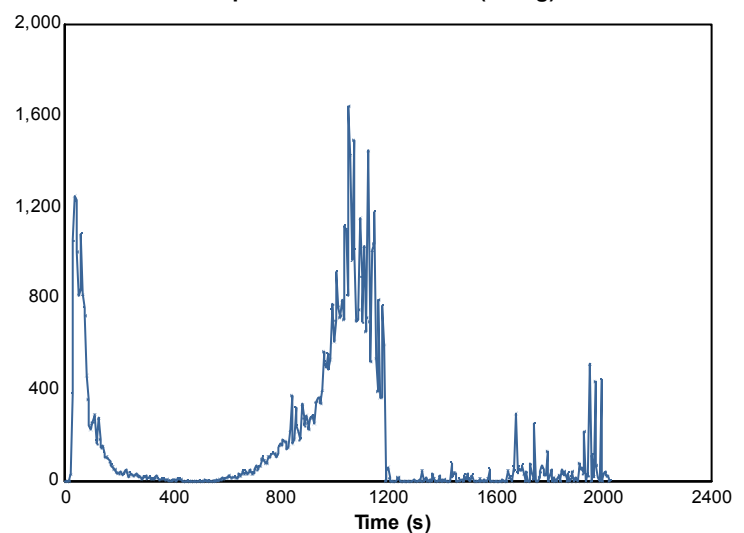
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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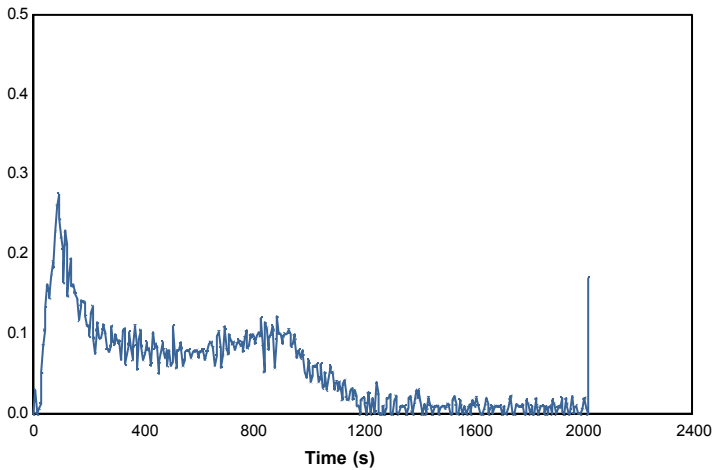
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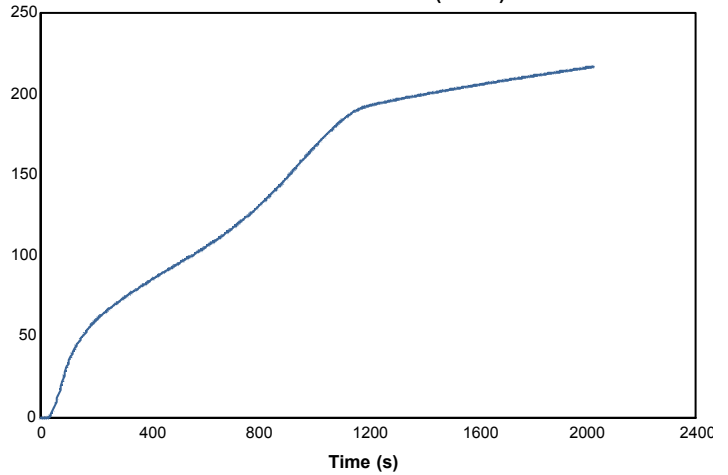
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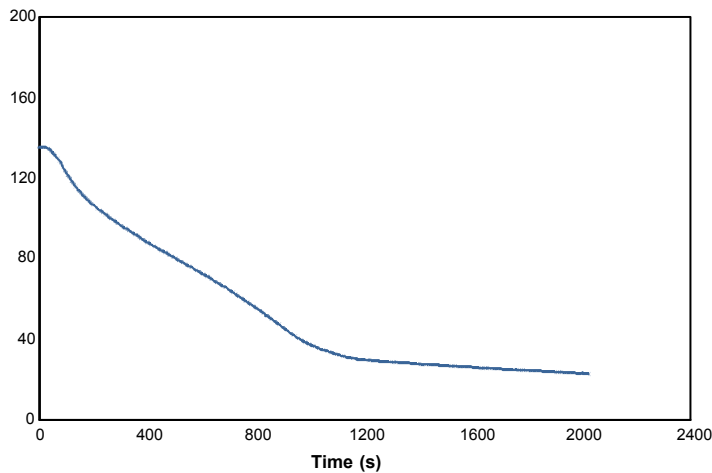
Mass loss rate (g/s)



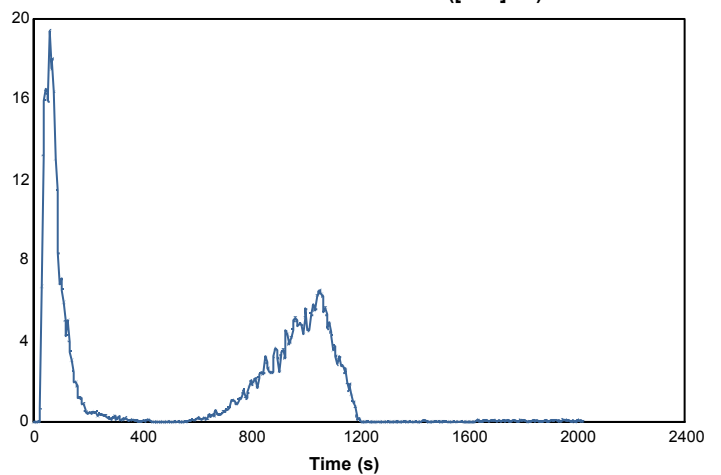
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²)



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