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 : George Fethers
740 Lorimer Street
Port Melbourne VIC 3207

Test Number : 17-001442
Issue Date : 04/04/2017
Print Date : 1/05/2017

Sample Description

Clients Ref : "Cellupal on FR MDF"
Continuous pressed laminate on FR MDF
Colour : Brown
End Use : Internal Joinery
Nominal Composition : Laminate/FR MDF
Nominal Mass per Unit Area/Density : Laminate 50g/m2 MDF 750kg/m3
Nominal Thickness : Approx. 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	32.9	27.6	25.4	28.6	kW/m²
Average Specific extinction area	18.3	7.7	13.2	13.0	m²/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/m²
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	20	21	21	21	sec
Test duration	473	625	420	506	sec

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- Chemical Testing : Accreditation No. 983
- Mechanical Testing : Accreditation No. 985

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

0204/11/06

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Peak heat release after ignition	67.8	79.6	82.1	76.5	kW/m²
Average heat at 60 s	46.8	54.8	52.5	51.4	kW/m²
Average heat at 180 s	41.0	38.0	38.1	39.0	kW/m²
Average heat at 300 s	41.4	32.7	29.4	34.5	kW/m²
Total heat released	15.0	16.7	10.1	13.9	MJ/m²
Average effective heat of combustion	3.9	3.5	3.0	3.4	MJ/kg
Initial thickness	18.0	18.0	18.0	18.0	mm
Initial mass	116.5	116.7	117	116.7	g
Mass remaining	85.2	77.5	89.5	84.1	g
Mass percentage pyrolysed	26.9	33.6	23.5	28.0	%
Mass loss	31.3	39.2	27.5	32.7	g
Average rate of mass loss	8.5	8.0	8.5	8.3	g/m².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 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 intumescing sample within the sample holder.

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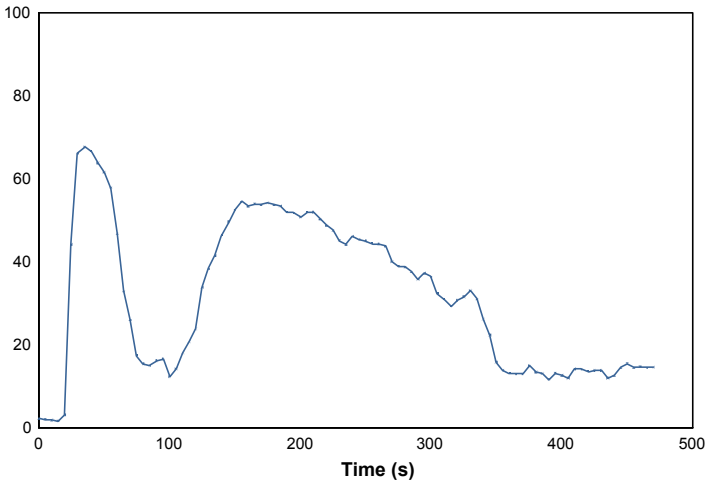
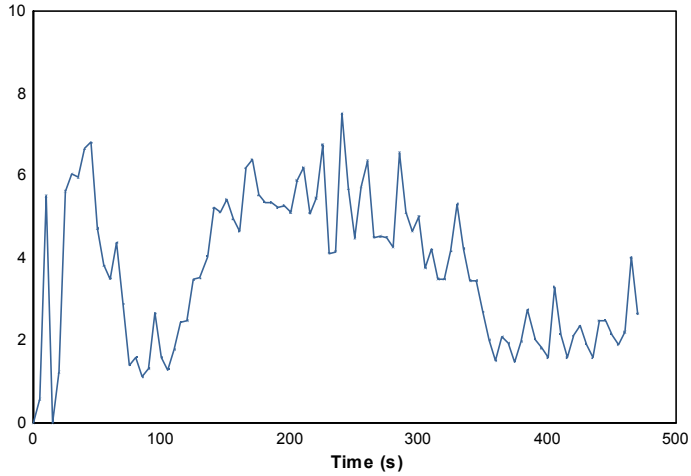
Specimen : 1

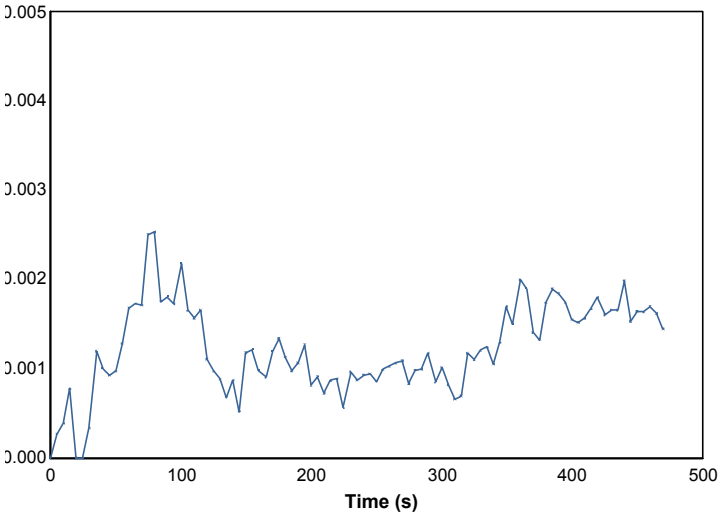
Heat release rate (kW/m²)



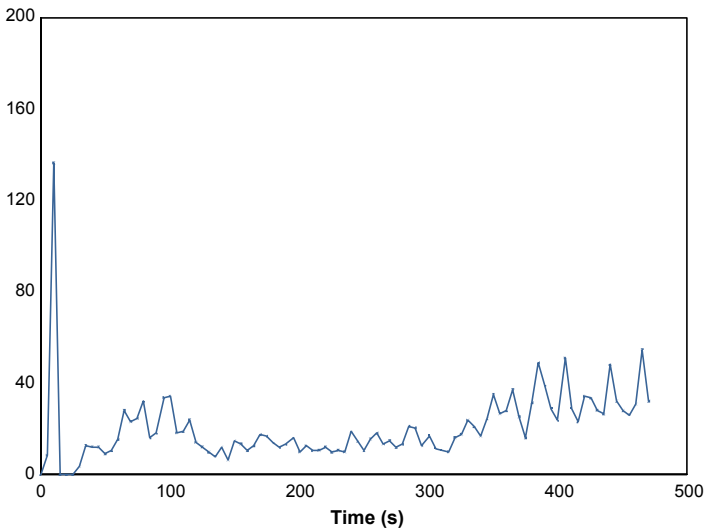
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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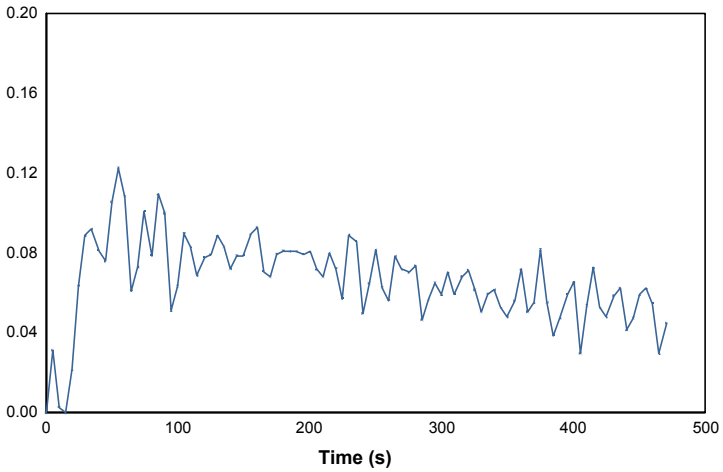
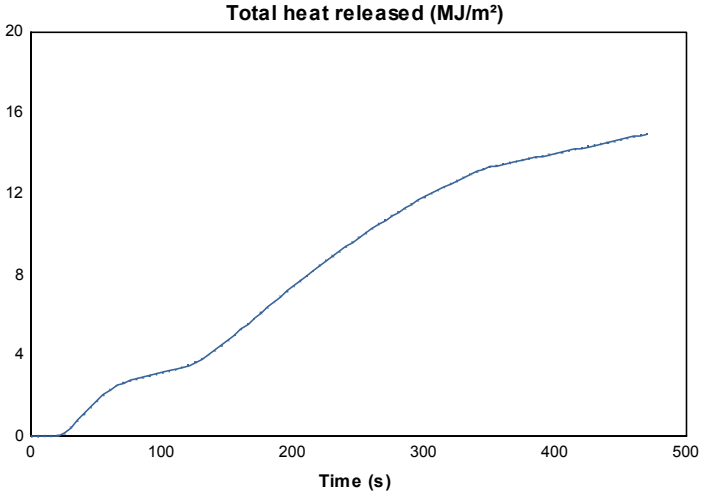
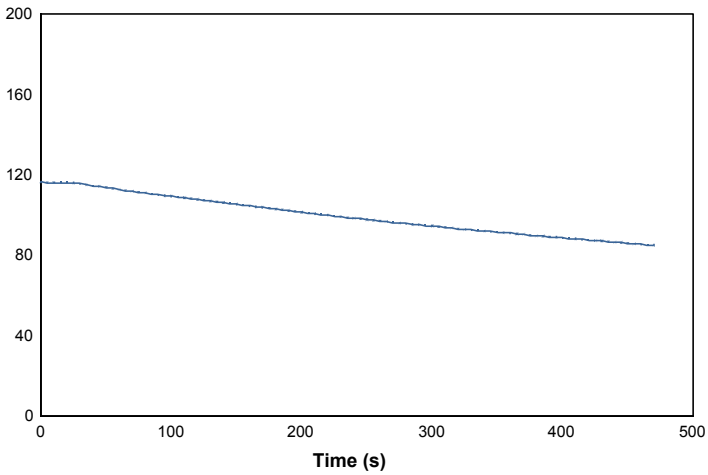
Mass loss rate (g/s)



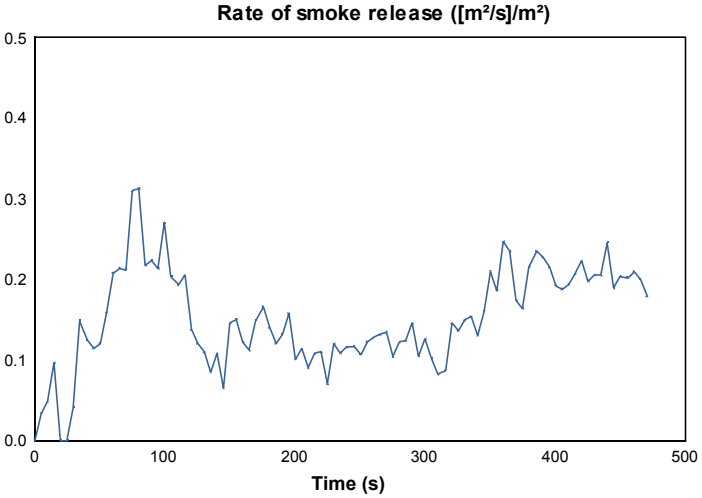
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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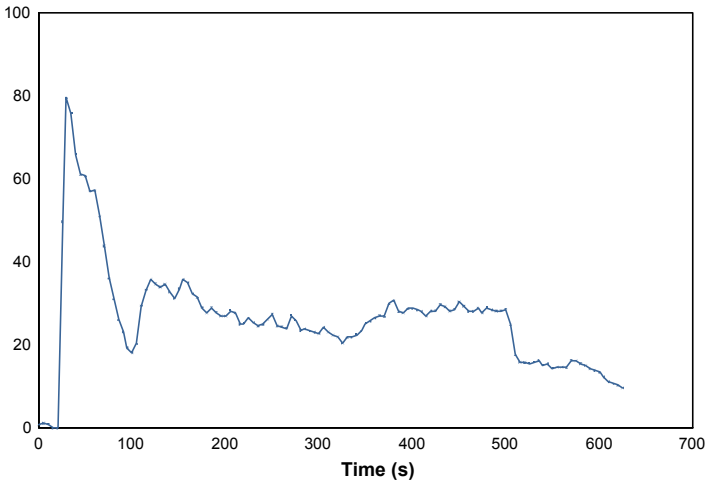
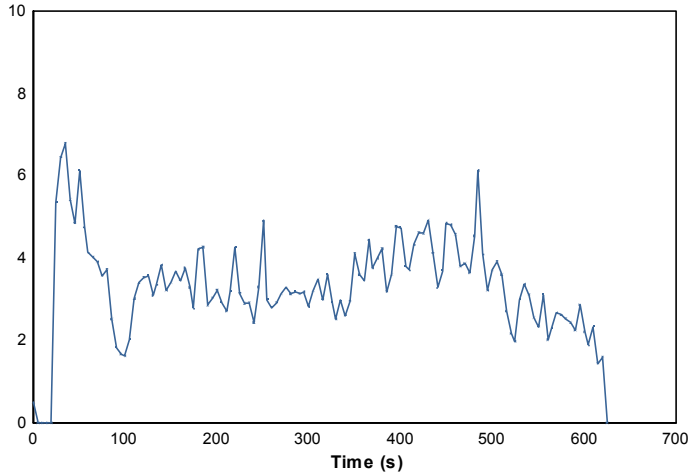
Specimen : 2

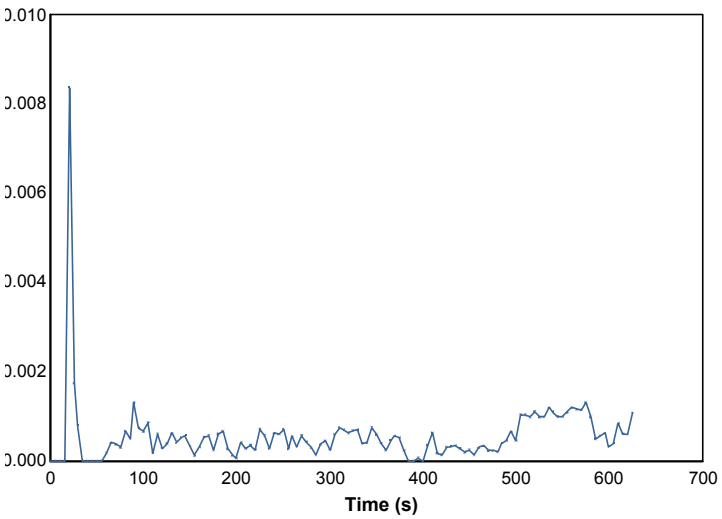
Heat release rate (kW/m²)



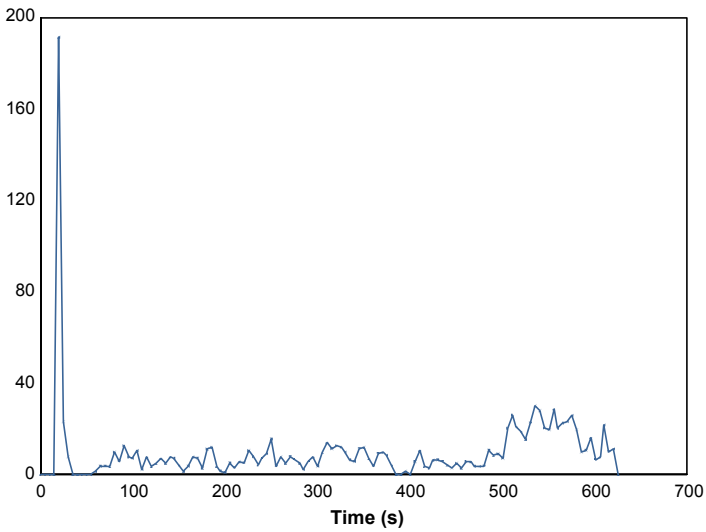
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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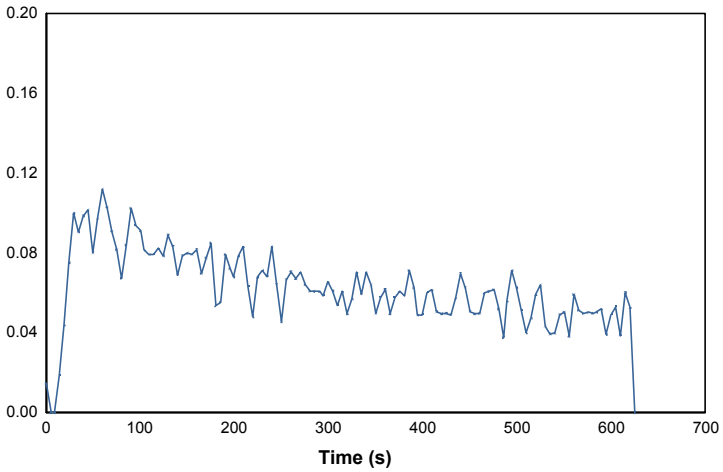
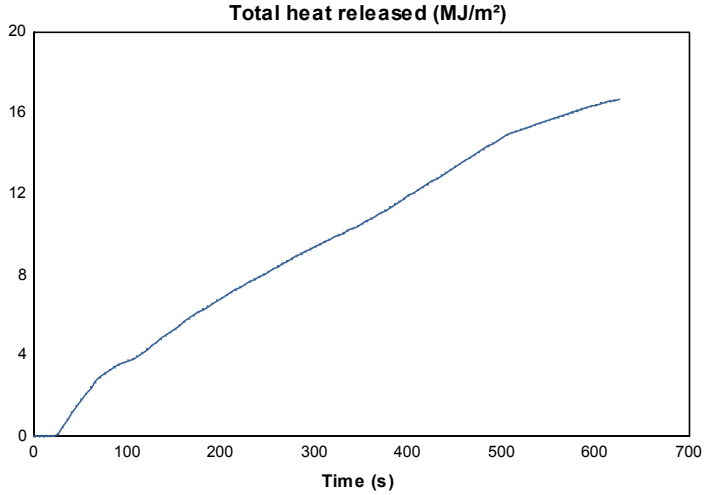
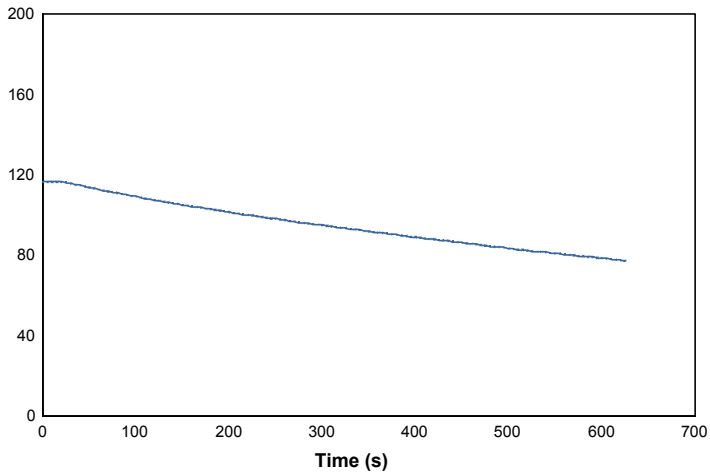
Mass loss rate (g/s)



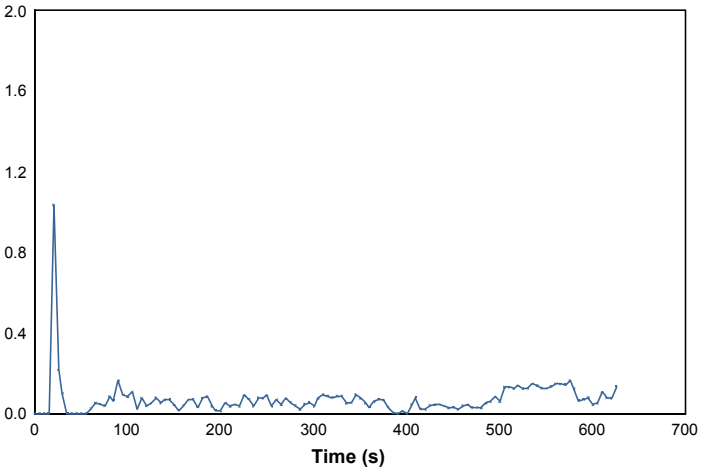
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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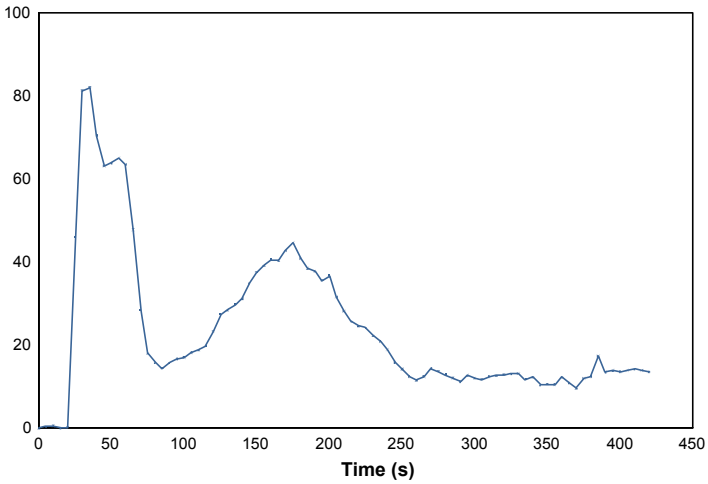
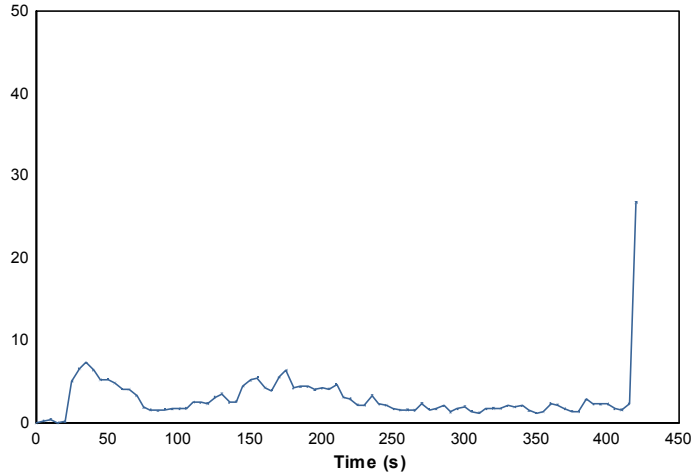
Specimen : 3

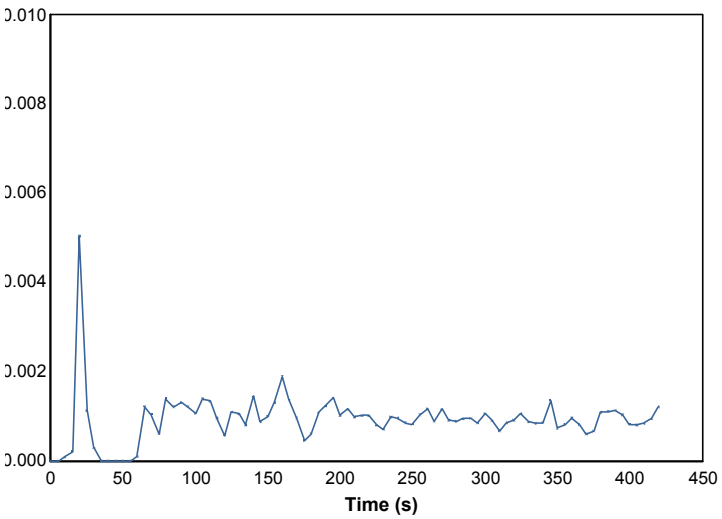
Heat release rate (kW/m²)



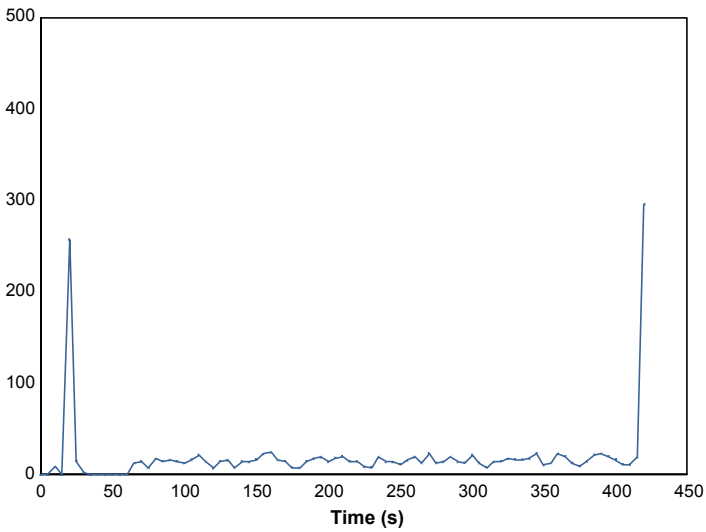
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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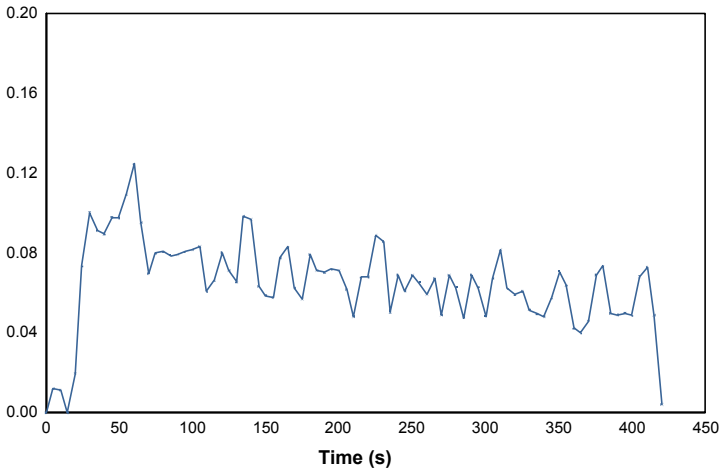
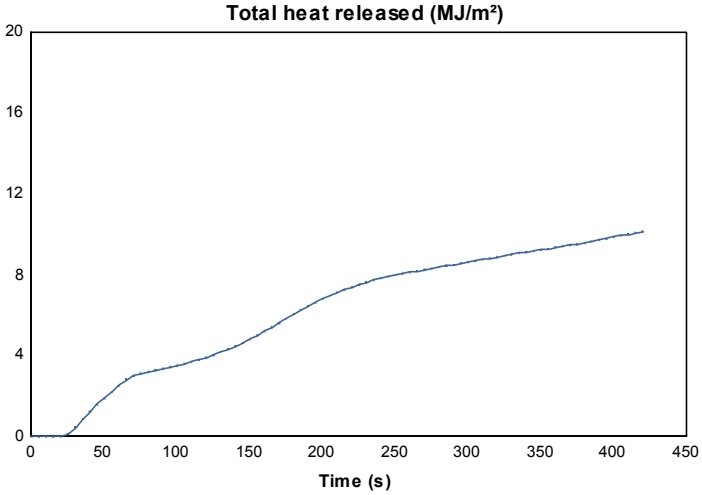
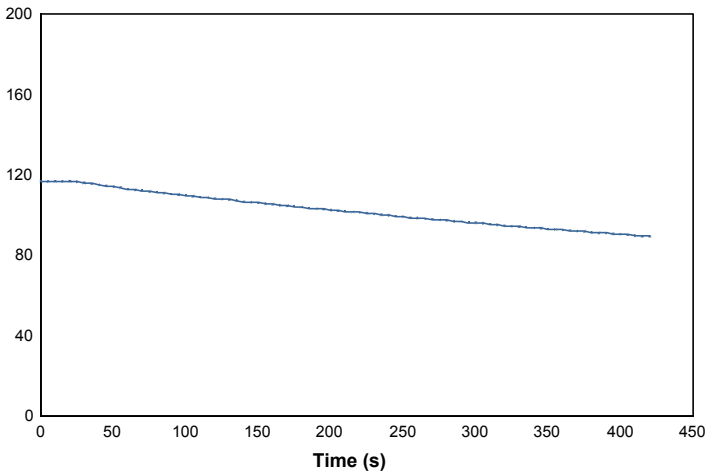
Mass loss rate (g/s)



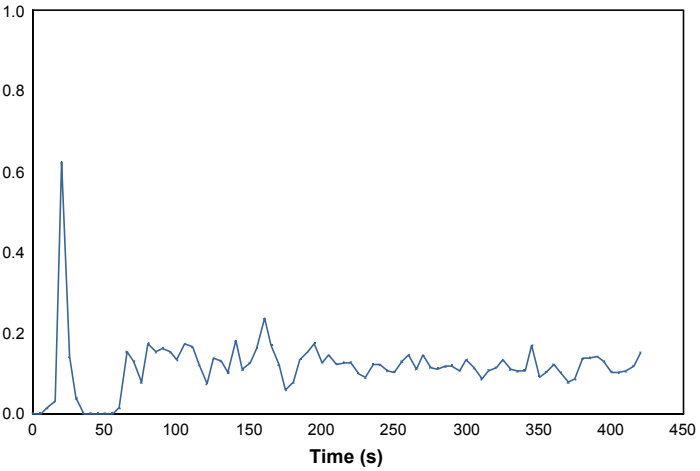
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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