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 : FEBRIK
Minosstraat 20 5048 CK Tilburg
The Netherlands

Test Number : 15-002739
Issue Date : 17/06/2015
Print Date : 17/06/2015

Sample Description

Clients Ref : "Uniform/Uniform Melange"
Knitted fabric on foam with knitted scrim backing
Colour : Natural
End Use : Upholstery
Nominal Composition : 68% Wool, 22% Polyamide, 10% Polyester
Nominal Mass per Unit Area/Density : 490g/m2
Nominal Thickness : 3mm

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	35.8	30.9	30.5	32.4	kW/m²
Average Specific extinction area	12.2	7.9	5.5	8.5	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	57	65	54	59	sec
Test duration	441	504	525	490	sec
Peak heat release after ignition	60.9	72.2	74.2	69.1	kW/m²
Average heat at 60 s	46.6	58.4	62.1	55.7	kW/m²
Average heat at 180 s	48.4	42.4	42.9	44.6	kW/m²
Average heat at 300 s	41.5	36.9	38.4	38.9	kW/m²
Total heat released	15.4	15.3	16.4	15.7	MJ/m²
Average effective heat of combustion	7.5	7.0	7.4	7.3	MJ/kg

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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

APPROVED SIGNATORY

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

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Initial thickness	9.0	9.0	9.0	9.0	mm
Initial mass	88	90.6	90	89.5	g
Mass remaining	71.5	72.4	72.2	72.0	g
Mass percentage pyrolysed	18.8	20.1	19.8	19.6	%
Mass loss	16.5	18.2	17.8	17.5	g
Average rate of mass loss	4.8	4.4	4.1	4.4	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 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.

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 intumescing sample within the sample holder.

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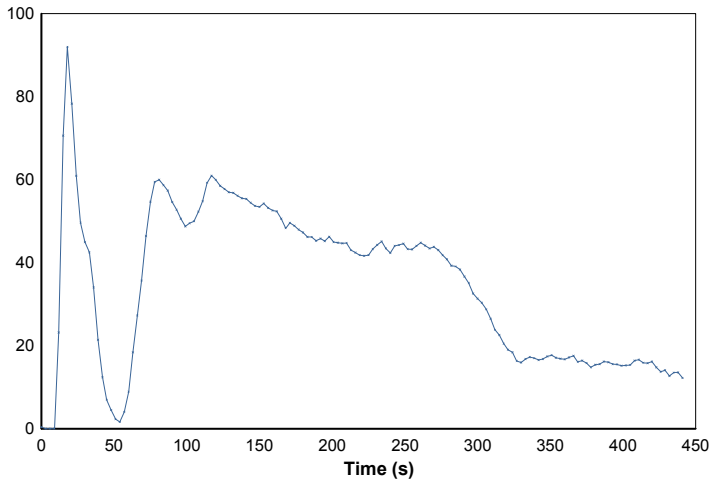
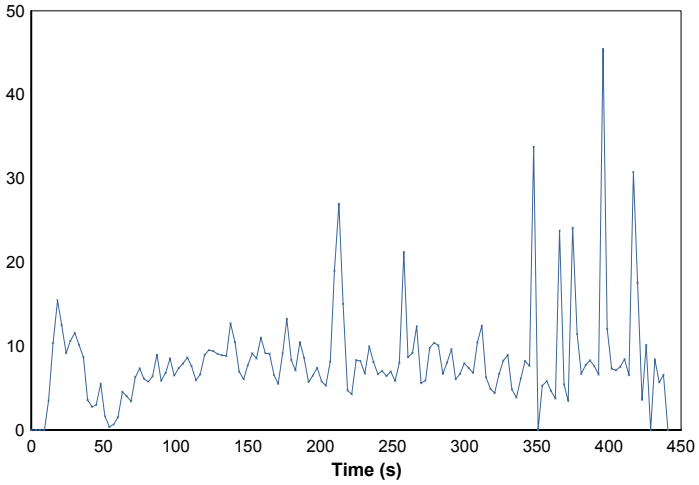
Specimen : 1

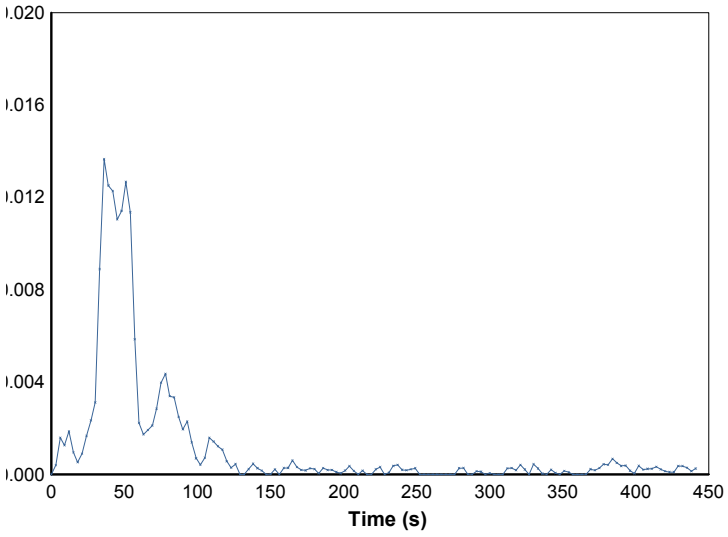
Heat release rate (kW/m²)



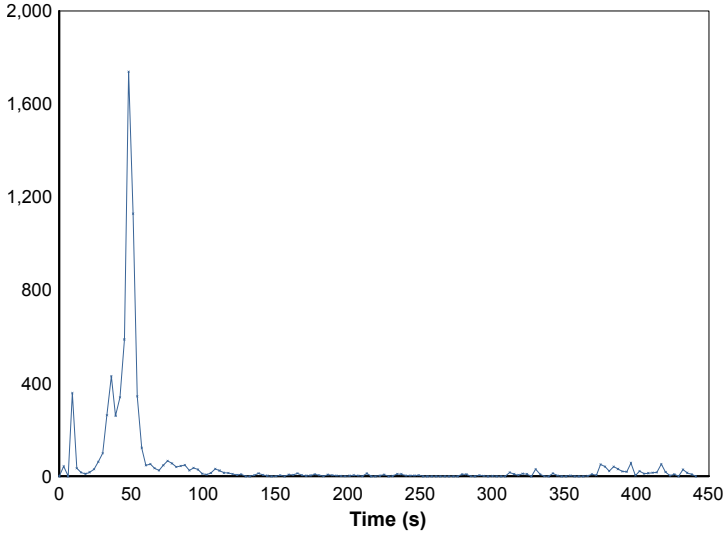
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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MICHAEL A. JACKSON B.Sc.(Hons)
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0204/11/06

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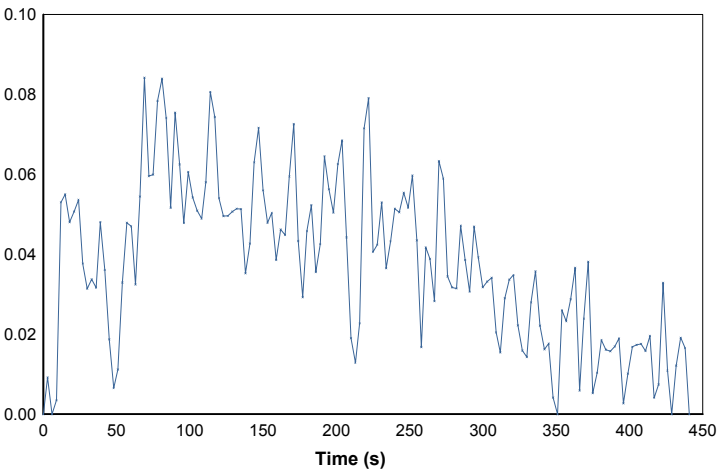
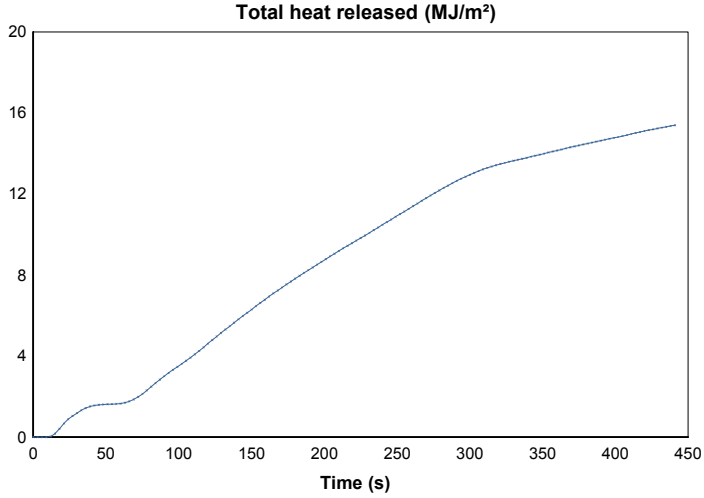
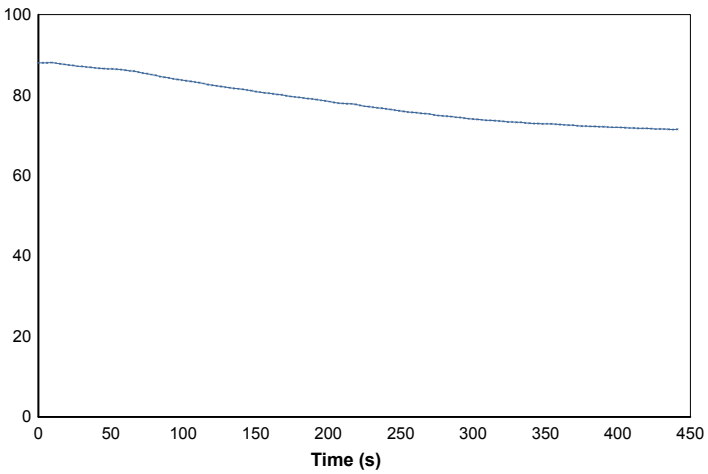
Mass loss rate (g/s)



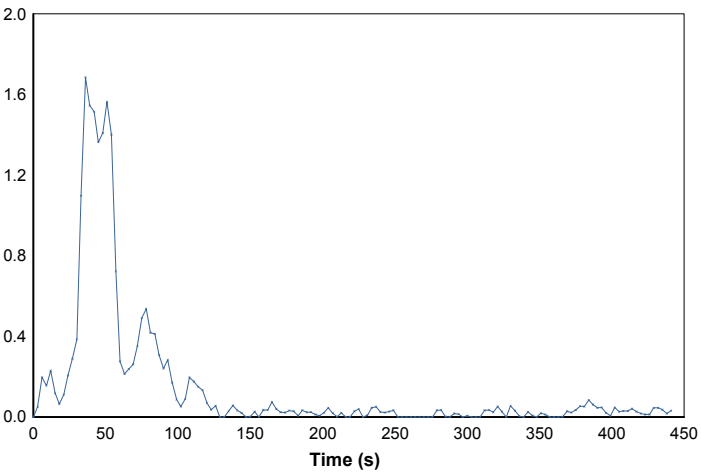
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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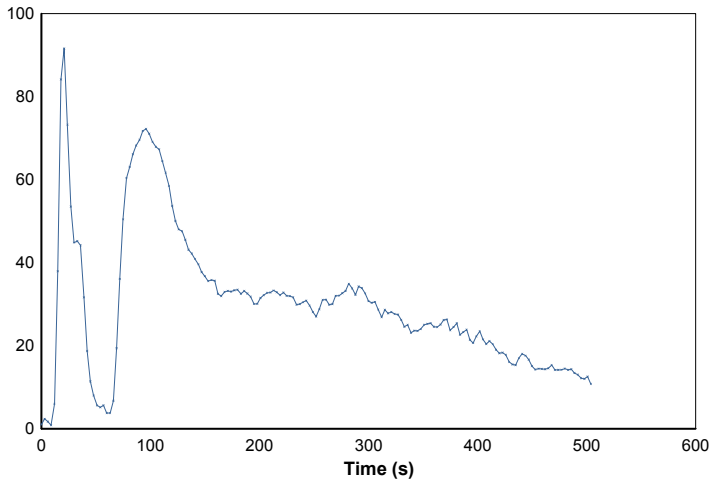
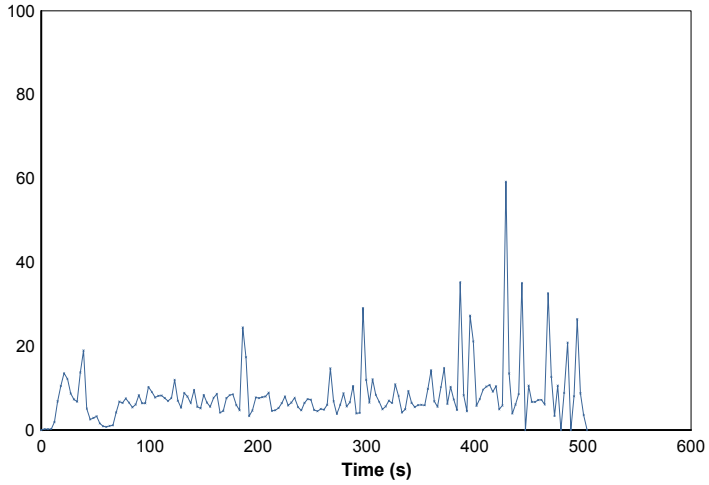
Specimen : 2

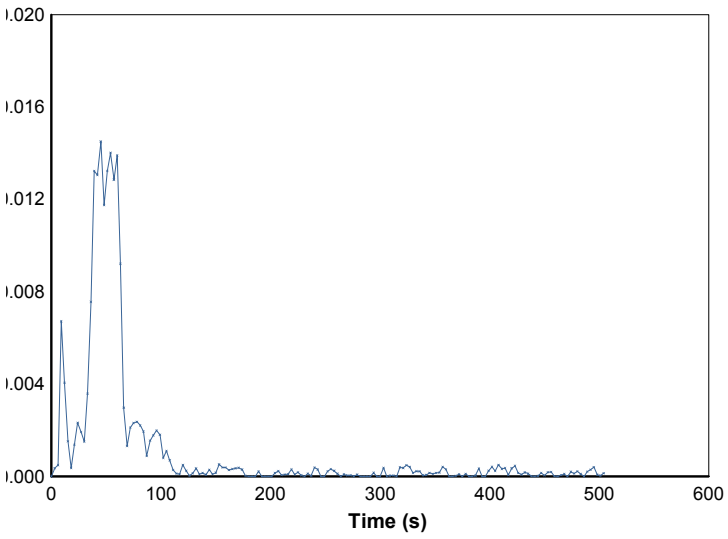
Heat release rate (kW/m²)



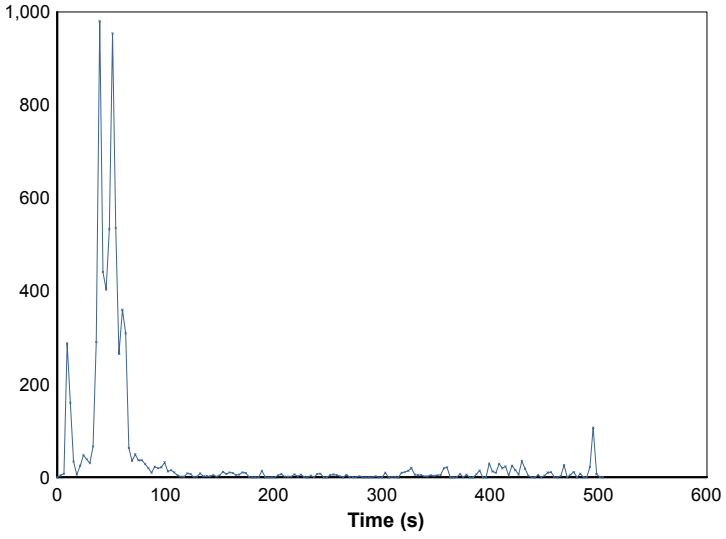
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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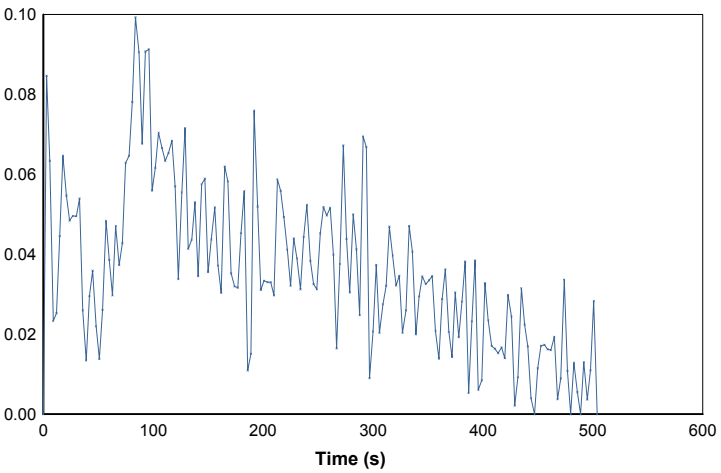
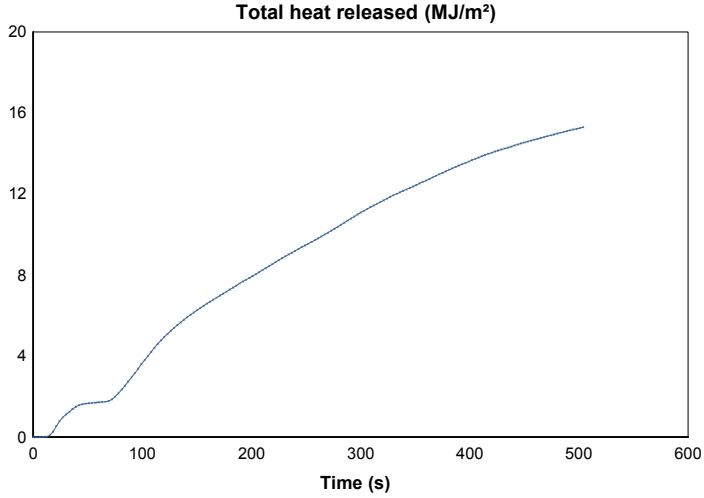
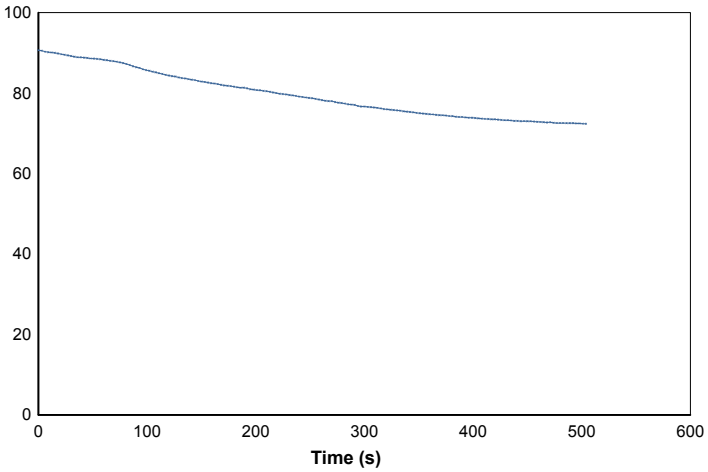
Mass loss rate (g/s)



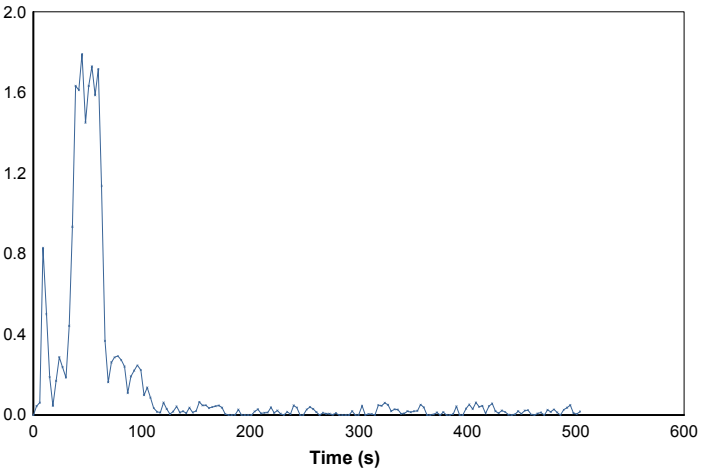
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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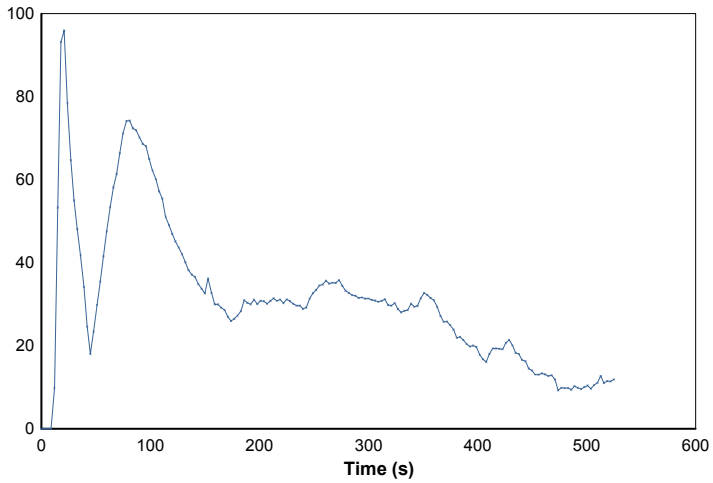
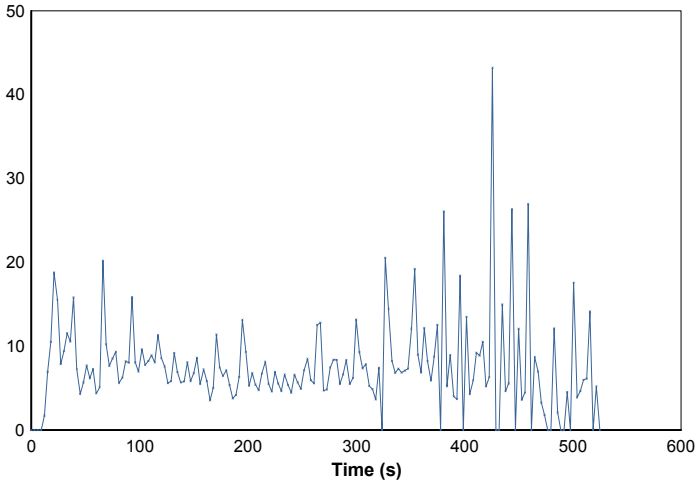
Specimen : 3

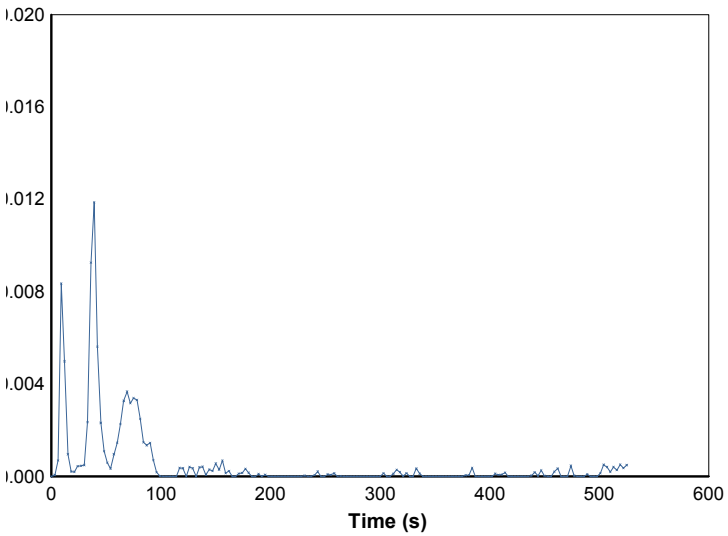
Heat release rate (kW/m²)



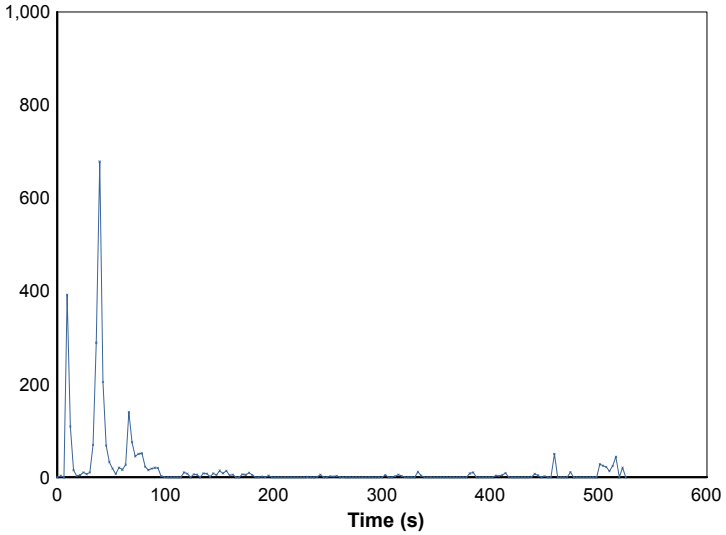
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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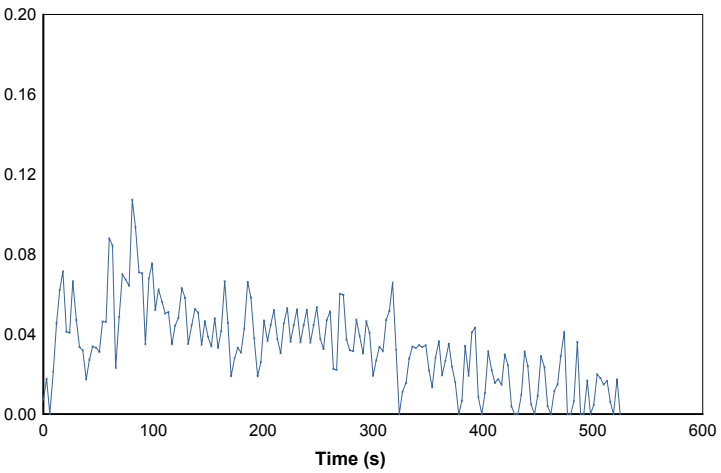
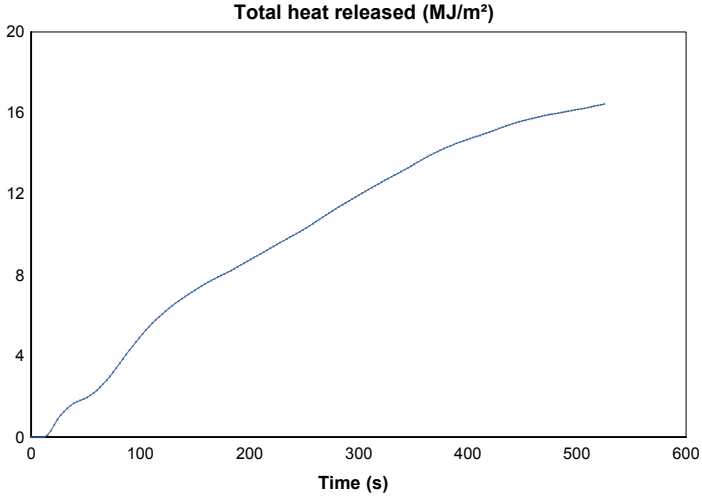
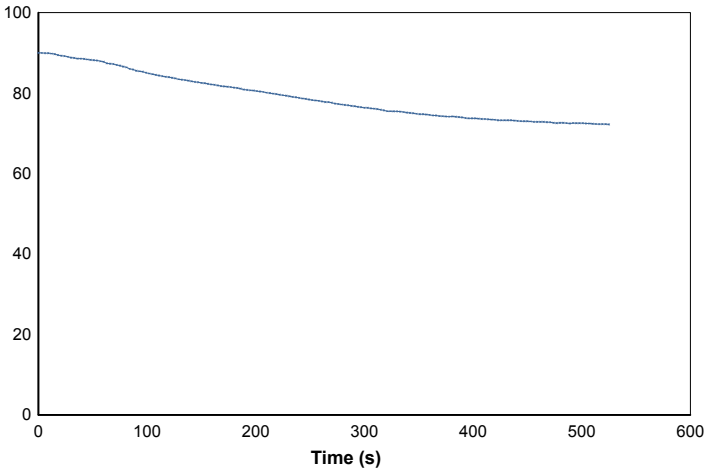
Mass loss rate (g/s)



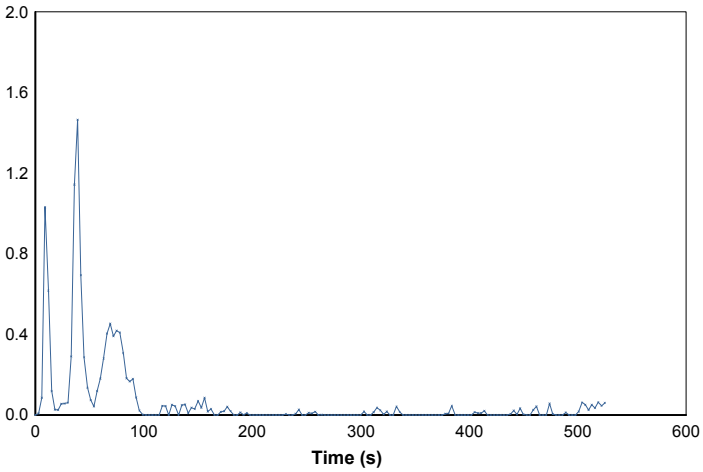
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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