

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 : Verosol
21 Amour Street
Revesby NSW 2212

Test Number : 19-006273
Issue Date : 06/12/2019
Print Date : 6/12/2019
Order Number : PO 031856-1

Sample Description Clients Ref : "815 Ultra"
Woven Mesh Fabric
Colour : Off White
End Use : Blinds
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : 73g/m2

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 05/12/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	4.0	7.5	fti	6.3	4.9	6.9	fti	kW/m ²
Average Specific extinction area	1103.1	863.0	1100.7	738.5	923.8	500.6	871.6	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	60	28	fti	47	43	106	fti	sec
Test duration	243	240	600	287	260	289	320	sec
Peak heat release after ignition	32.8	55.8	n/a	61.5	60.2	30.6	41.3	kW/m ²
Average heat at 60 s	9.7	14.8	n/a	17.3	14.3	10.4	11.2	kW/m ²

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APPROVED SIGNATORY

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MANAGING DIRECTOR

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Average heat at 180 s	4.0	7.7	n/a	7.7	5.6	6.9	5.6	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	n/a	n/a	0.4	kW/m ²
Total heat released	0.7	1.6	n/a	1.5	1.1	1.3	1.4	MJ/m ²
Ave. effective heat of combustion	16.0	31.9	n/a	25.6	20.5	21.0	23.3	MJ/kg
Initial thickness	0.5	0.5	0.5	0.5	0.5	0.5	0.5	mm
Initial mass	1.3	0.59	1.0	0.7	0.8	0.5	0.8	g
Mass at sustained flaming	0.9	0.3	n/a	0.3	0.3	0.2	-	g
Mass remaining	0.9	0.1	0.4	0.2	0.4	0.3	0.4	g
Mass percentage pyrolysed	28.3	84.4	n/a	71.3	47.9	47.0	56.8	%
Mass loss	0.0	0.1	0.1	0.1	0.0	0.0	0.1	kg/m ²
Average rate of mass loss	0.4	0.2	0.1	0.2	0.3	0.3	0.3	g/m ² .s

Additional Observations None

Difficulties Encountered during Testing None

fti = failed to ignite

This product has a release rate of less than 50 kW/m². The formulas given in the Building Code of Australia do not allow the calculation of a group in these circumstances. A product with very low heat release rates like this product is classified as a group 1 material or better according to advice from the Australian Building Codes Board.

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Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

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.

Specimens tested failed to ignite within 10 minutes and testing was ceased as per section 2.5.2(i).

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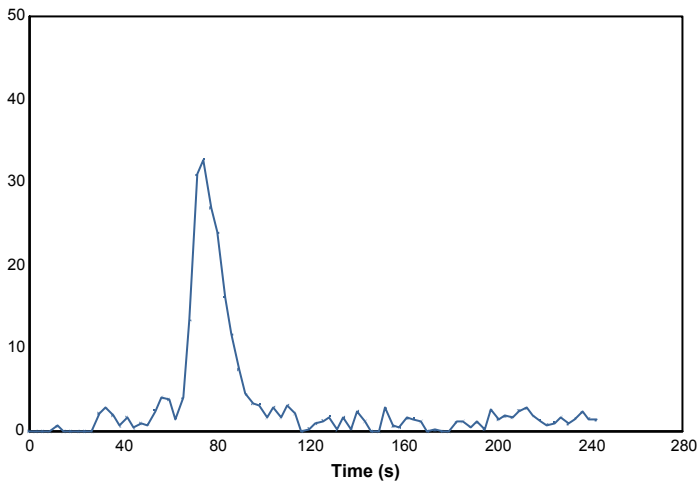
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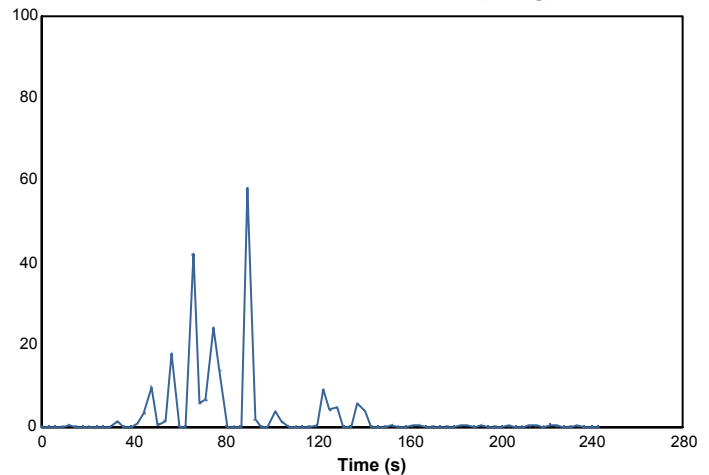
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Specimen : 1

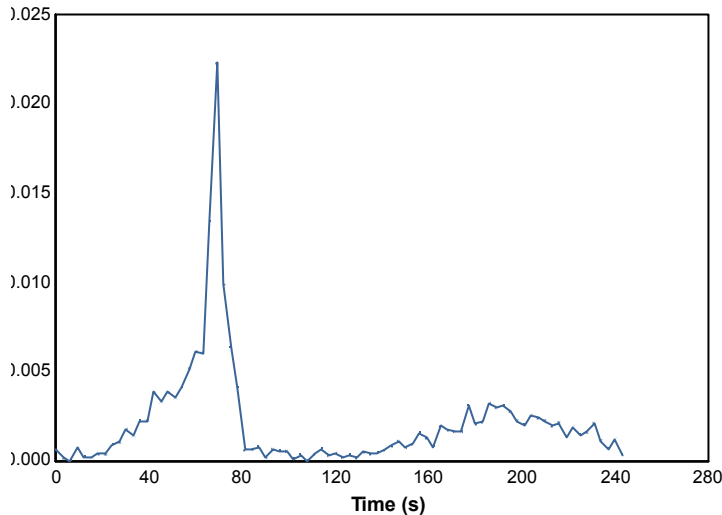
Heat release rate (kW/m²)



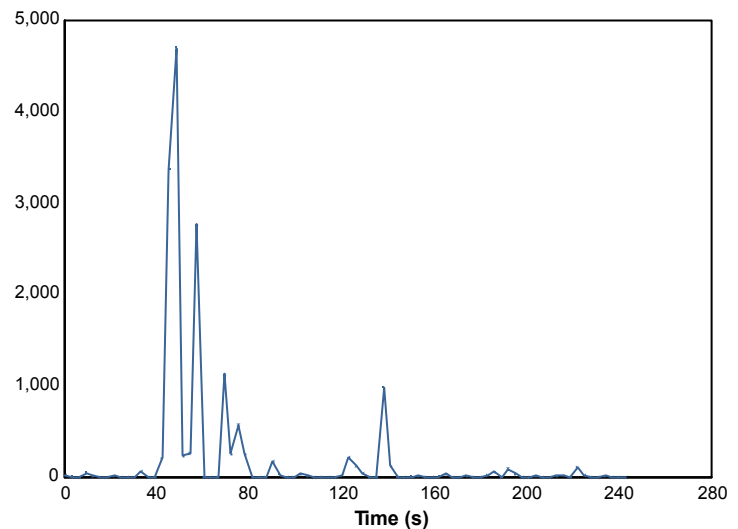
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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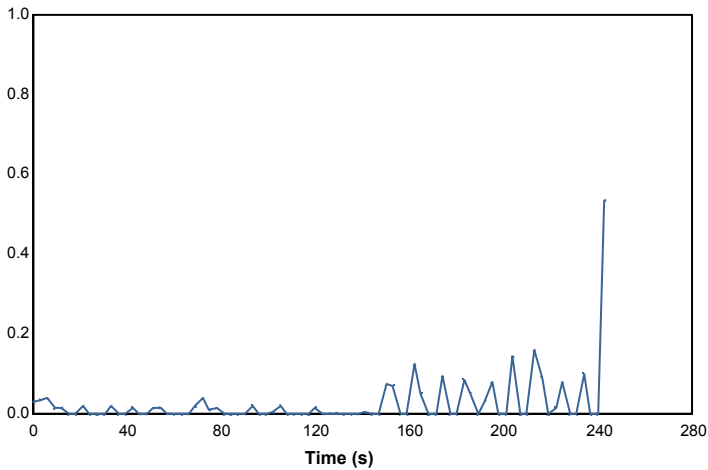
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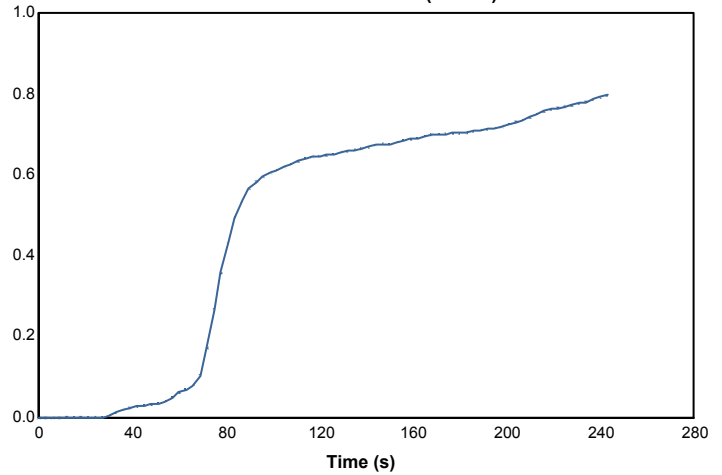
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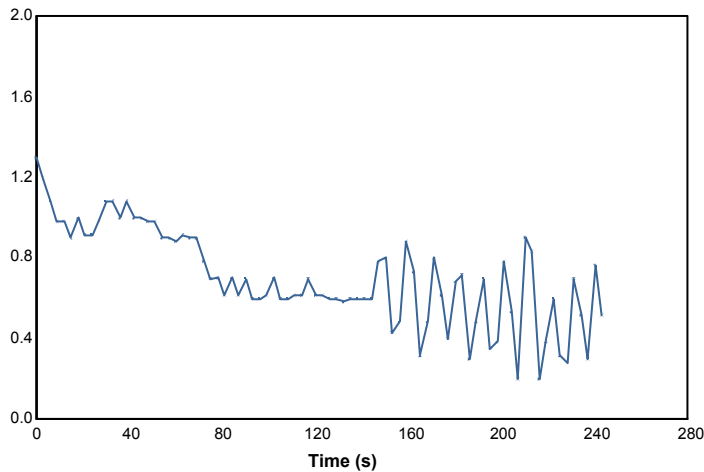
Mass loss rate (g/s)



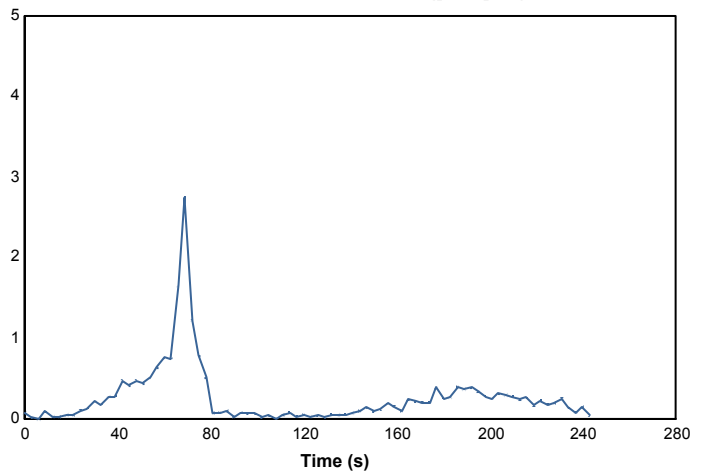
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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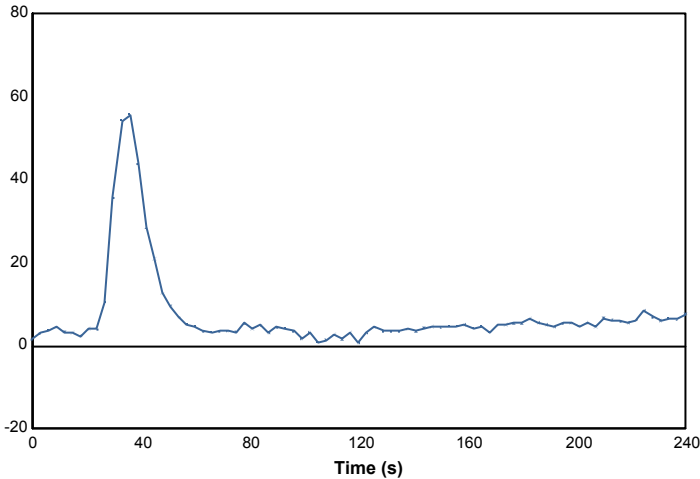
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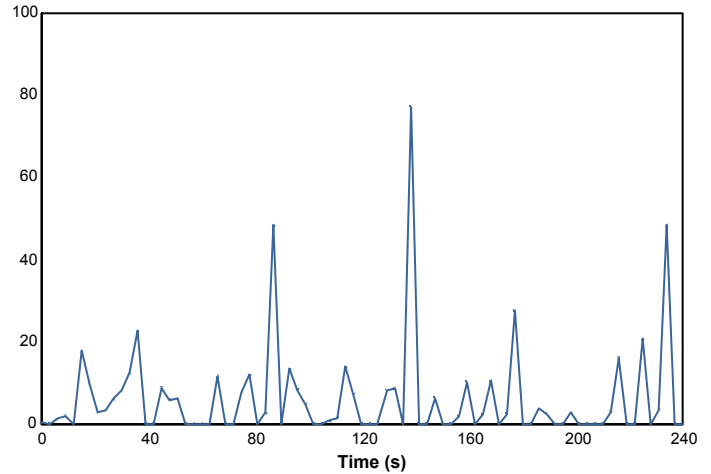
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Specimen : 2

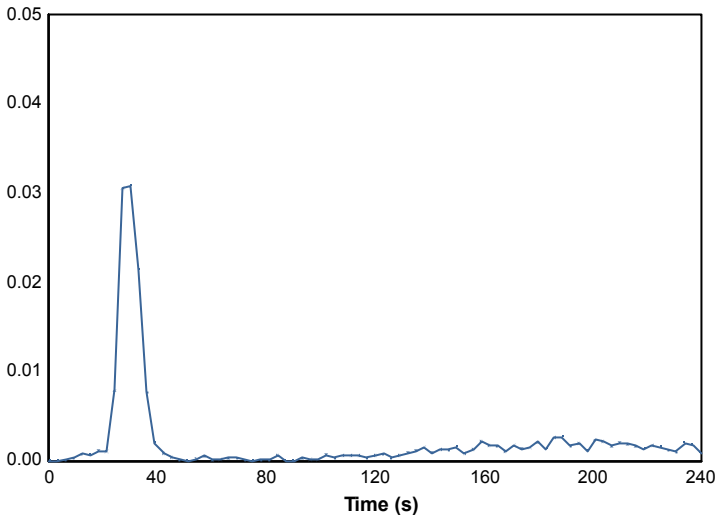
Heat release rate (kW/m²)



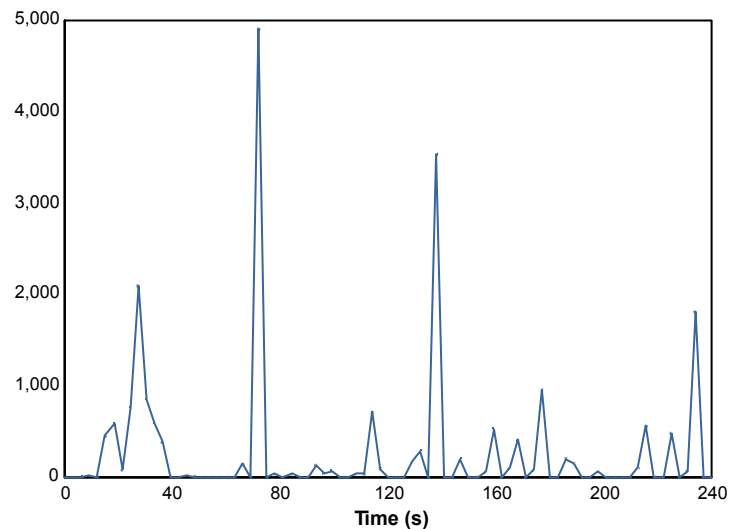
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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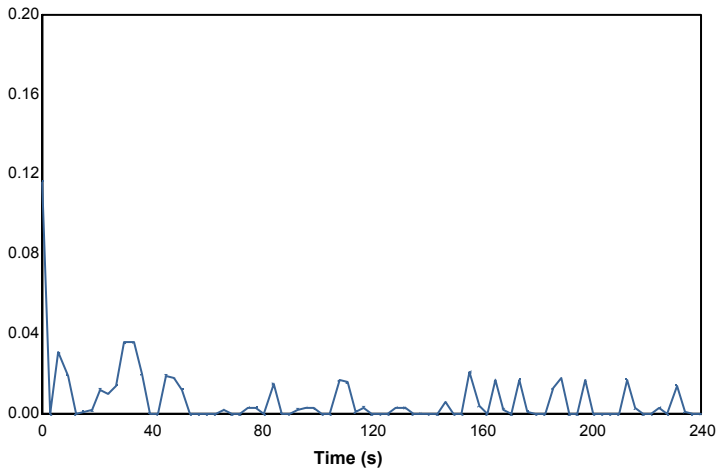
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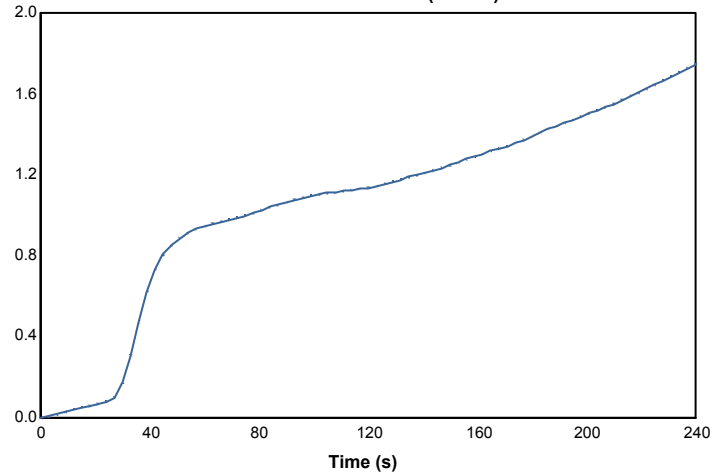
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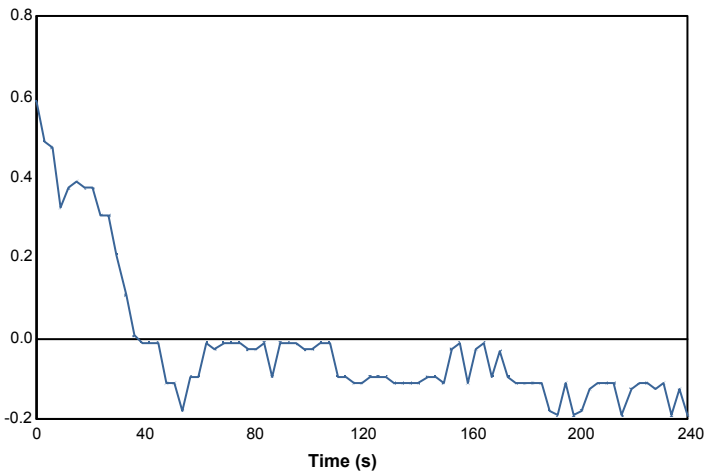
Mass loss rate (g/s)



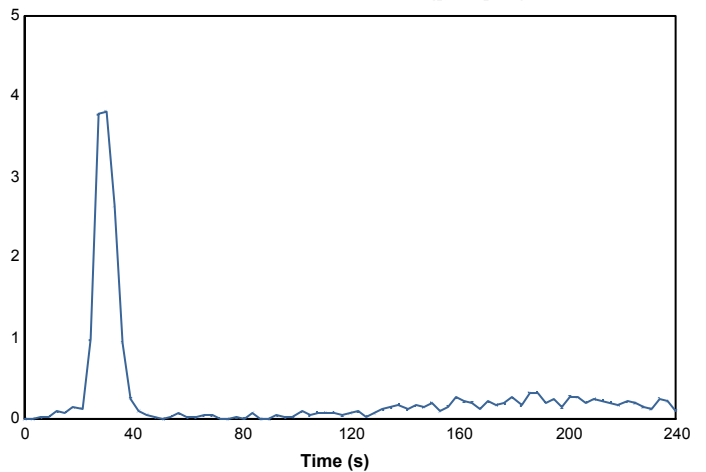
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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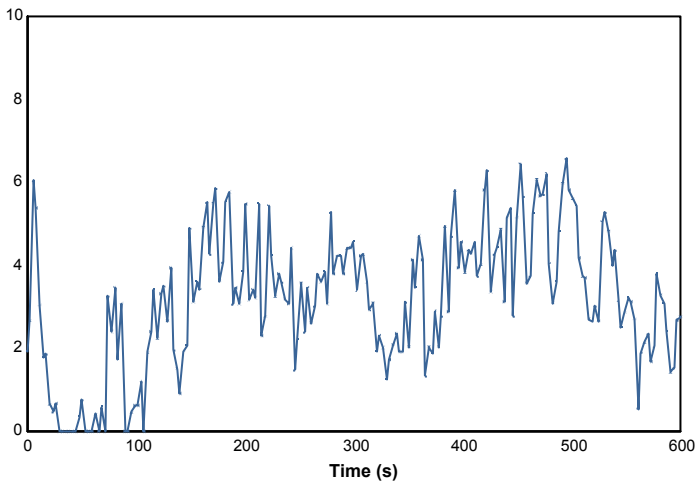
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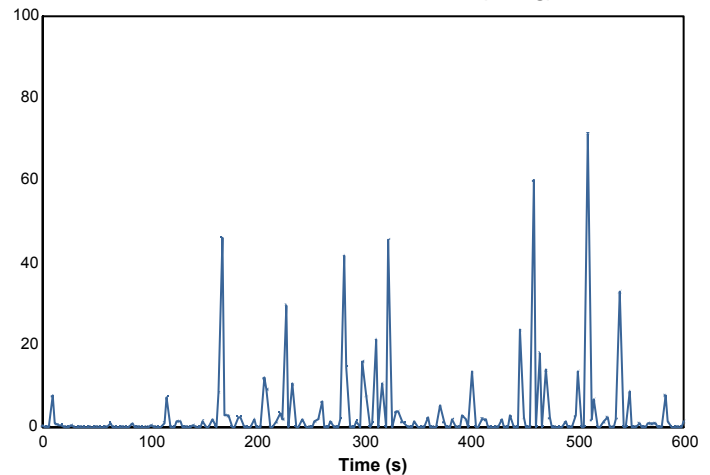
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Specimen : 3

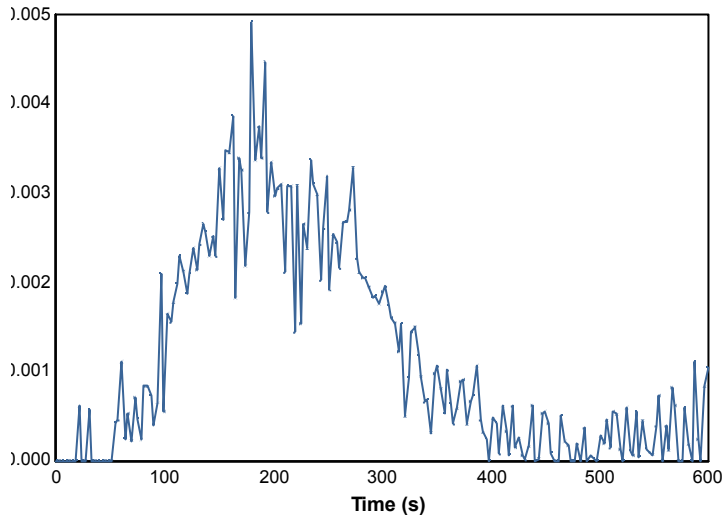
Heat release rate (kW/m²)



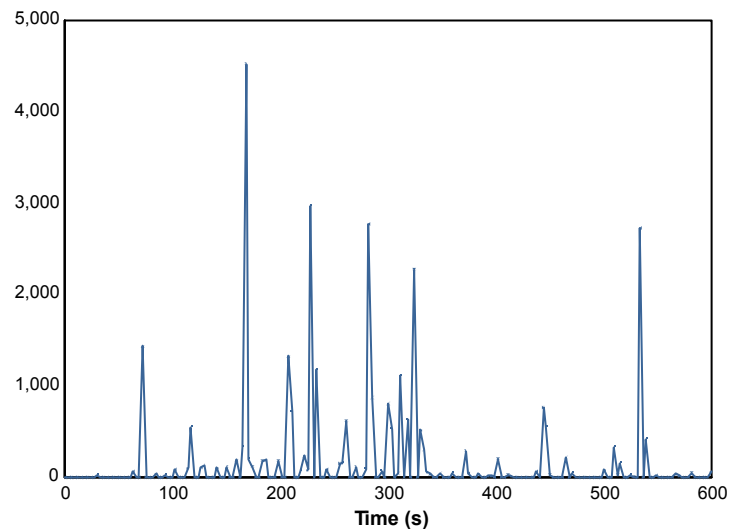
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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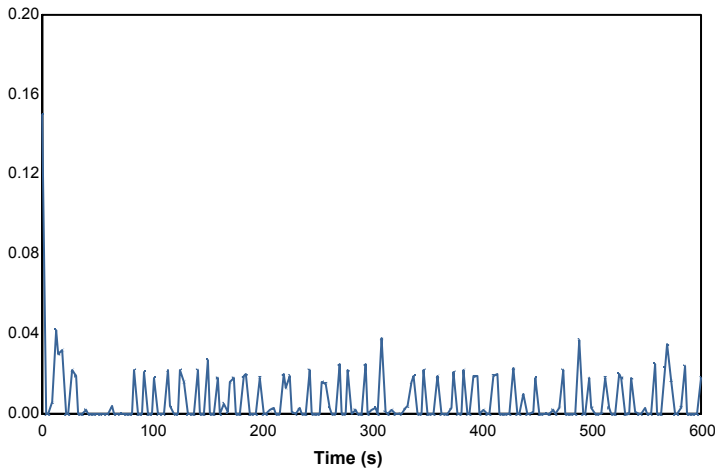
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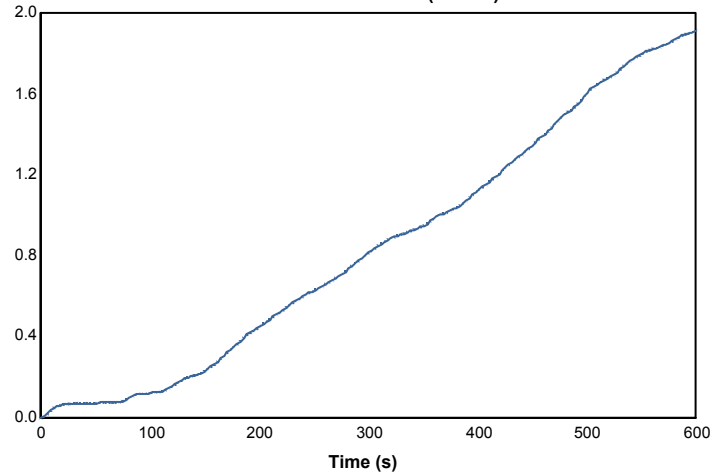
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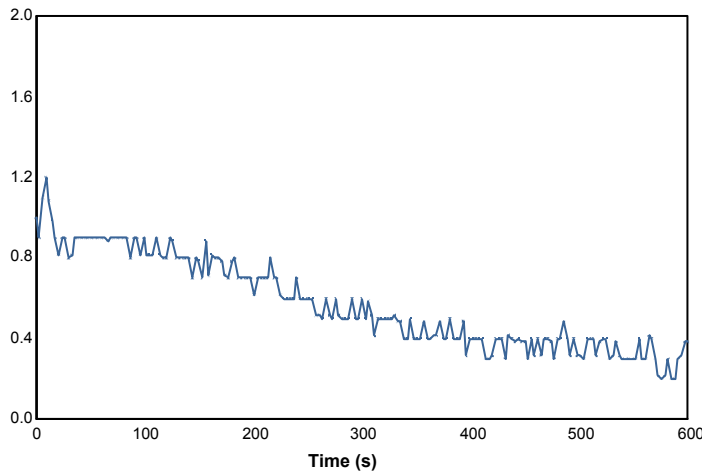
Mass loss rate (g/s)



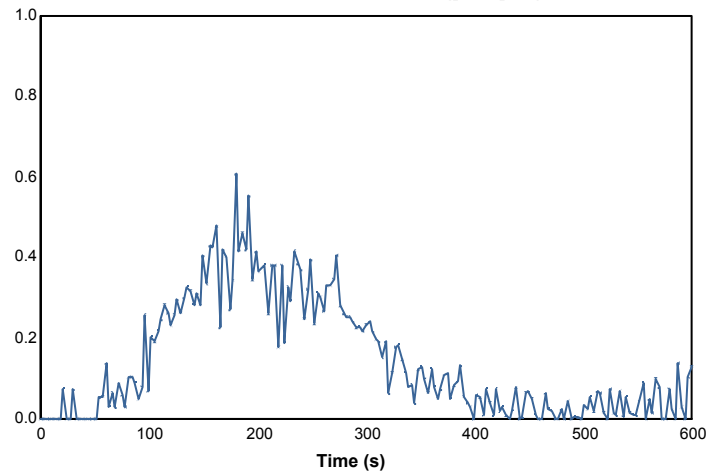
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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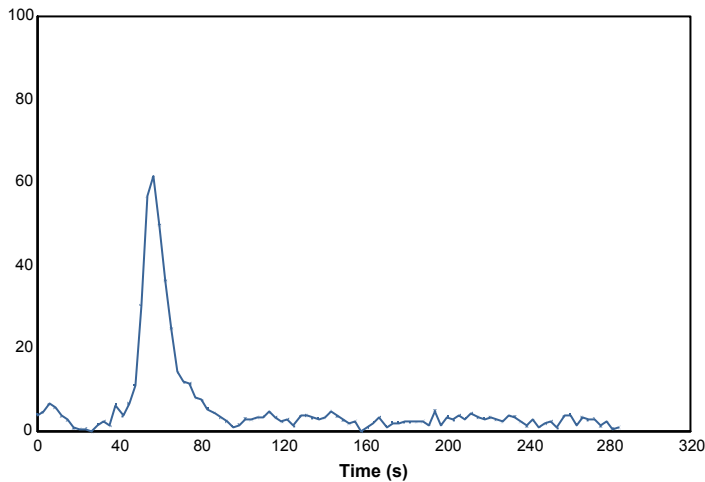
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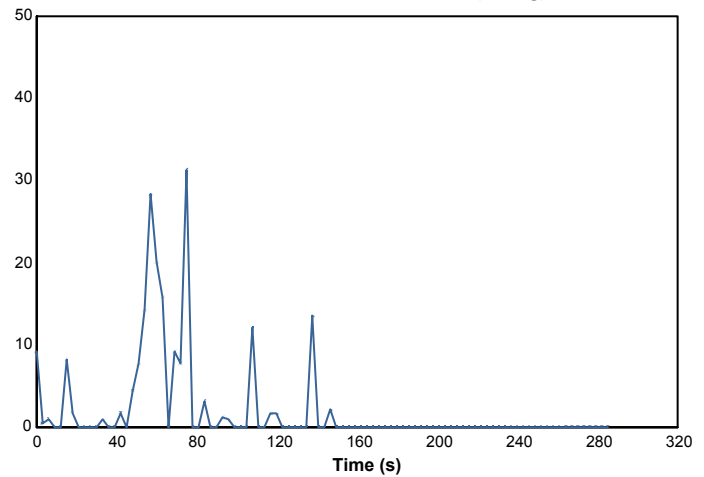
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Specimen : 4

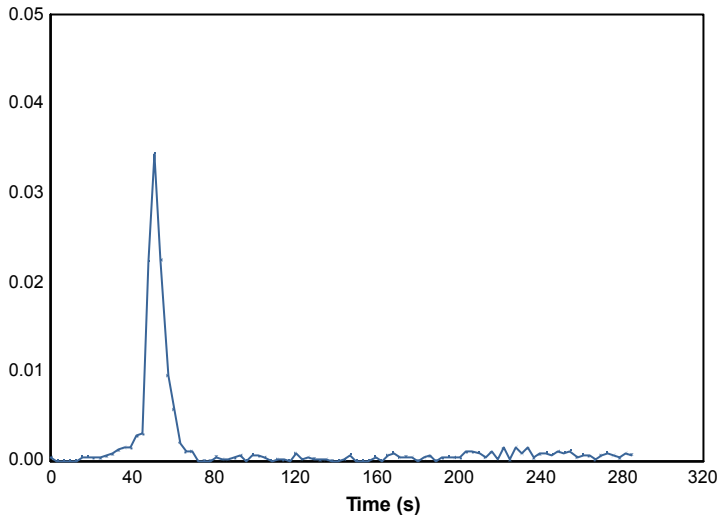
Heat release rate (kW/m²)



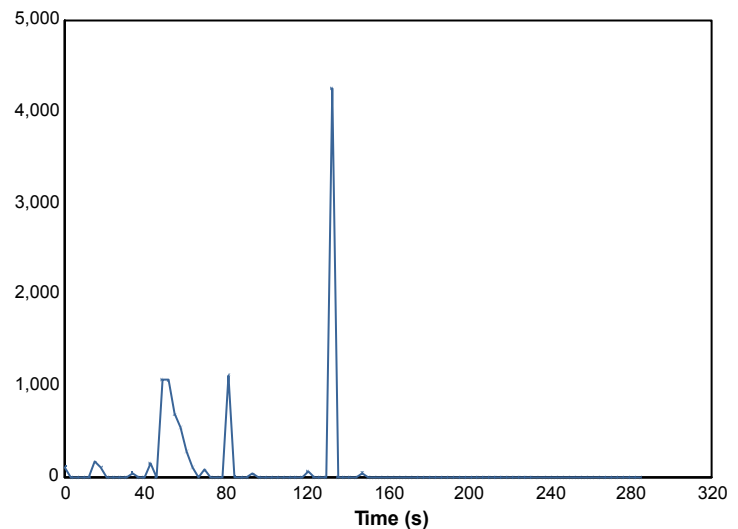
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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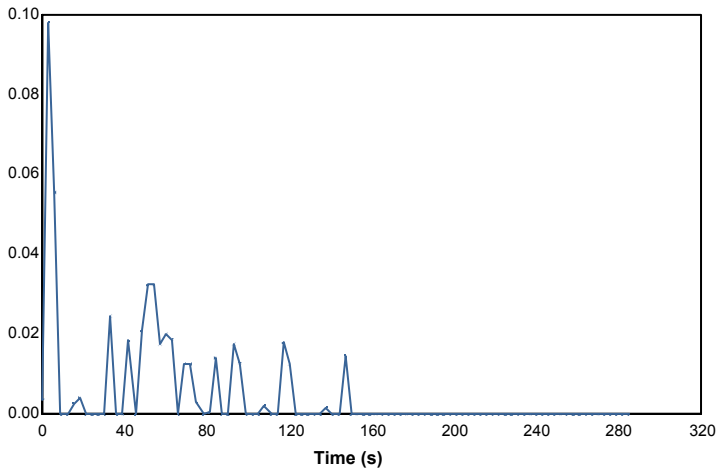
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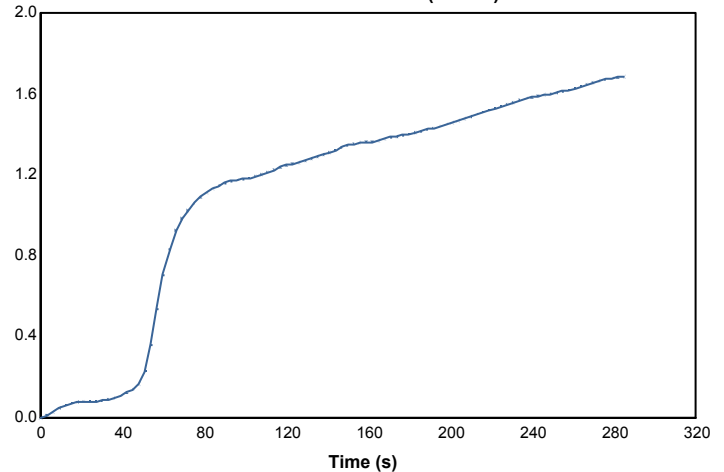
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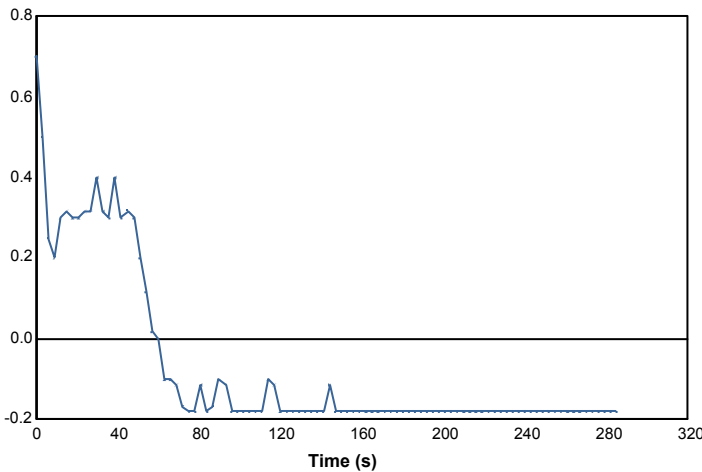
Mass loss rate (g/s)



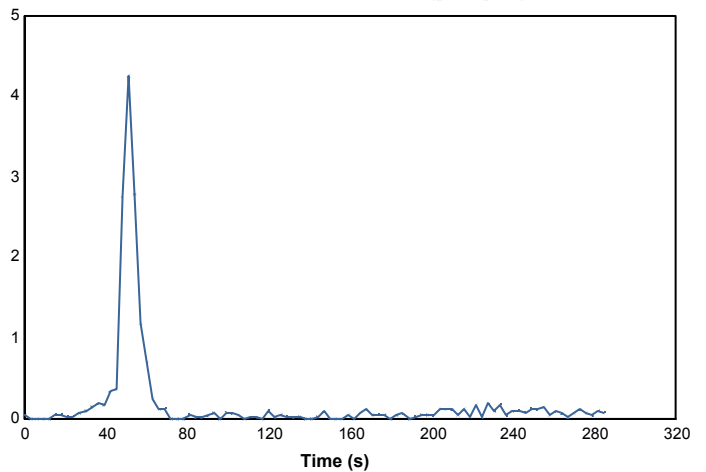
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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APPROVED SIGNATORY

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MANAGING DIRECTOR

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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

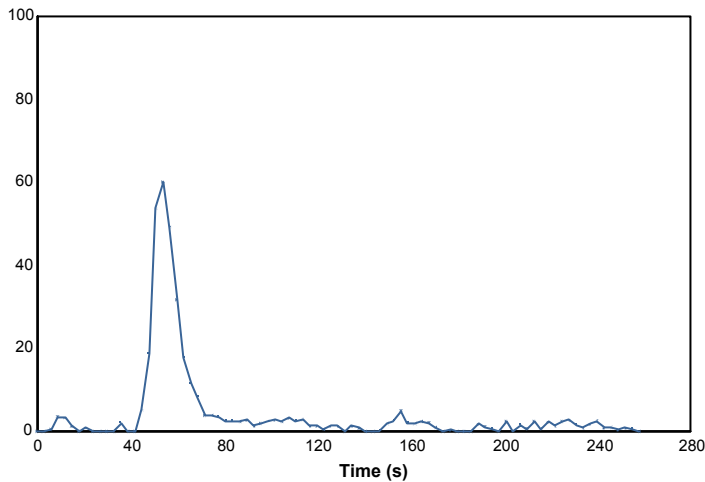
TEST REPORT

Client : Verosol
21 Amour Street
Revesby NSW 2212

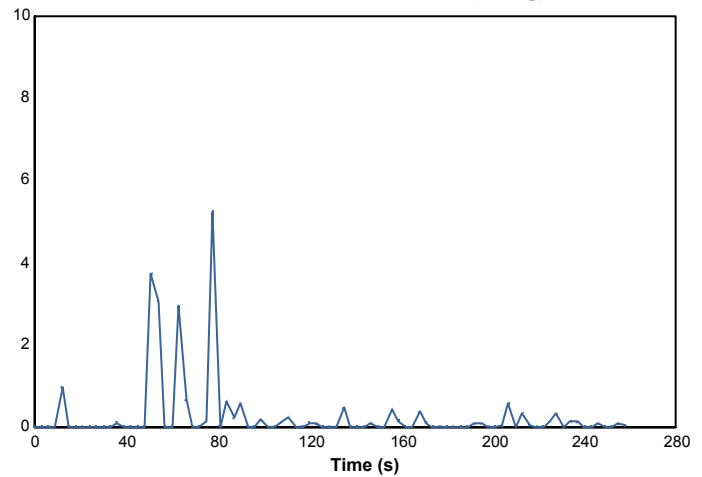
Test Number : 19-006273
Issue Date : 06/12/2019
Print Date : 6/12/2019
Order Number : PO 031856-1

Specimen : 5

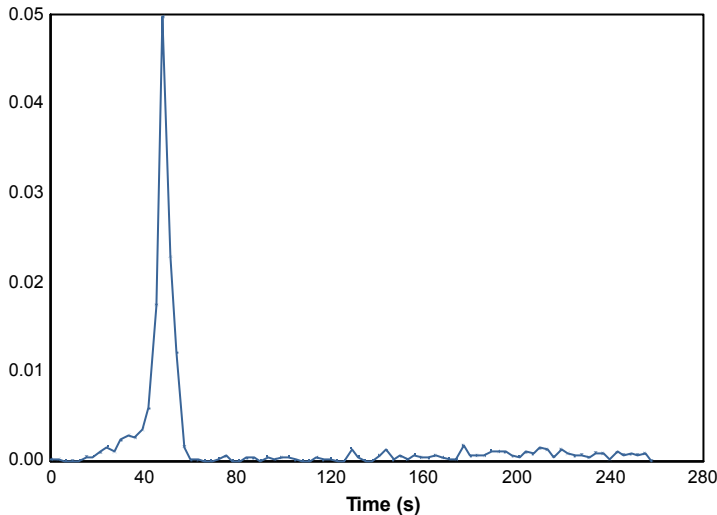
Heat release rate (kW/m²)



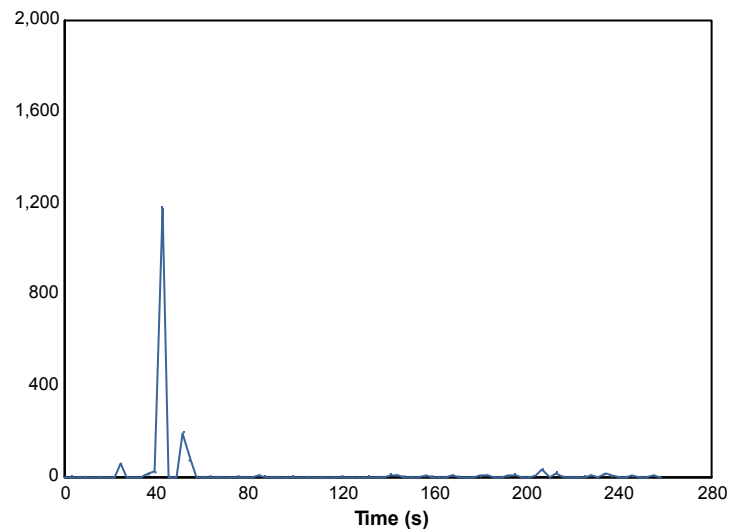
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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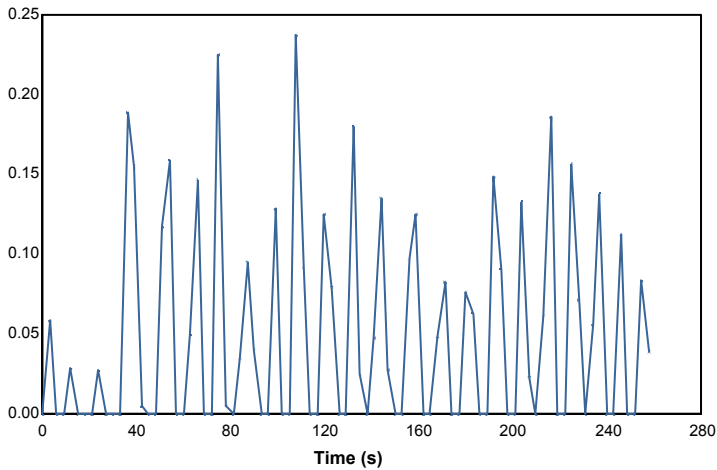
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

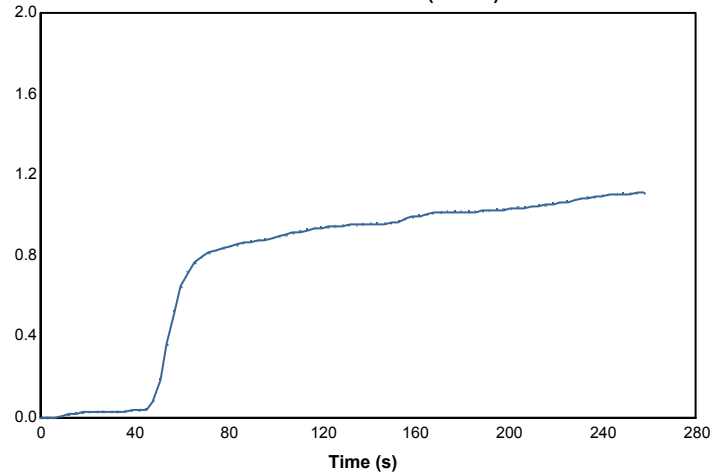
Client : Verosol
21 Amour Street
Revesby NSW 2212

Test Number : 19-006273
Issue Date : 06/12/2019
Print Date : 6/12/2019
Order Number : PO 031856-1

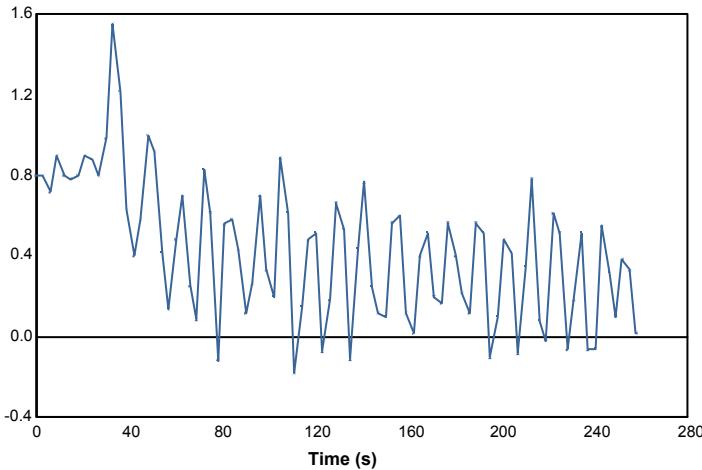
Mass loss rate (g/s)



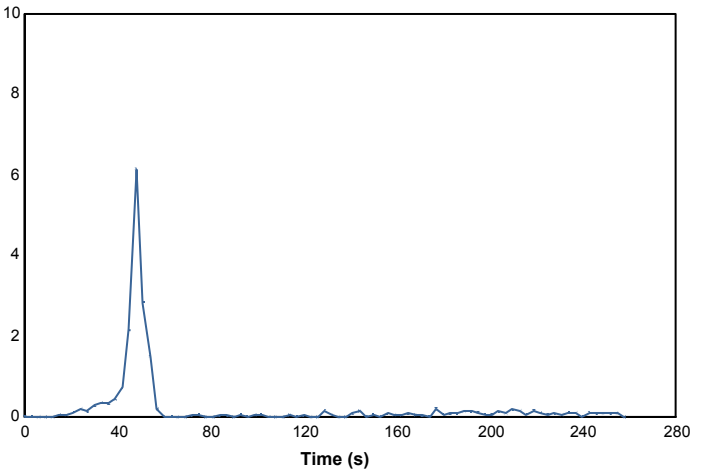
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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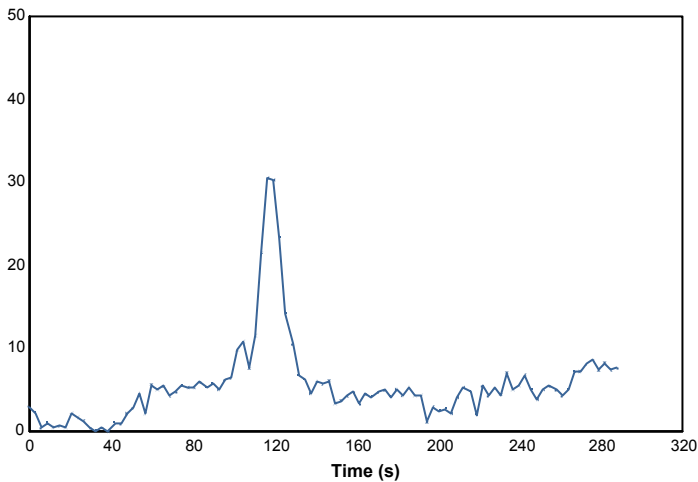
TEST REPORT

Client : Verosol
21 Amour Street
Revesby NSW 2212

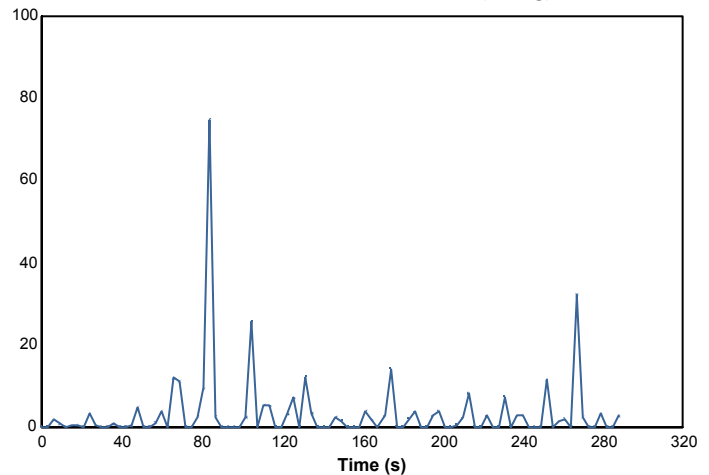
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Issue Date : 06/12/2019
Print Date : 6/12/2019
Order Number : PO 031856-1

Specimen : 6

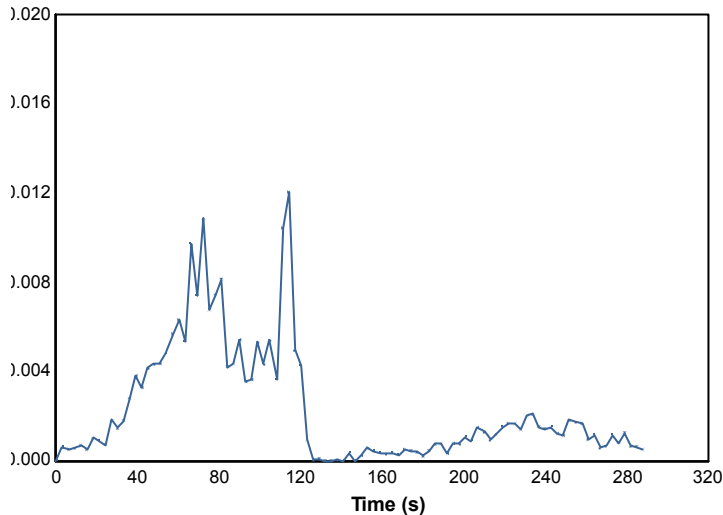
Heat release rate (kW/m²)



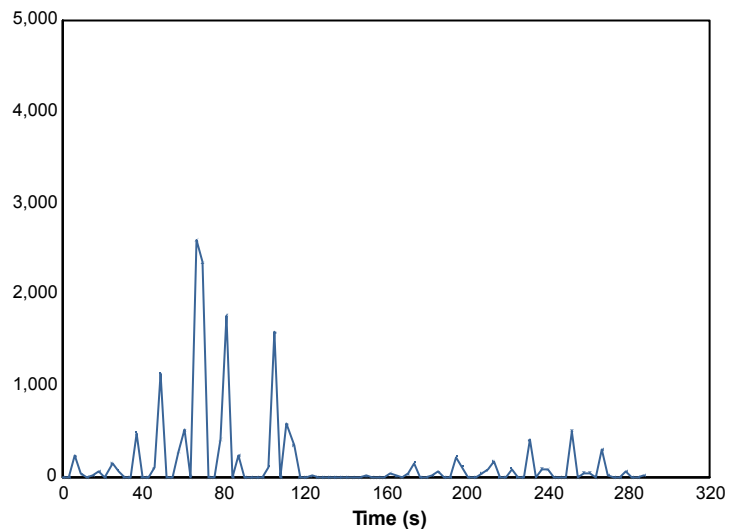
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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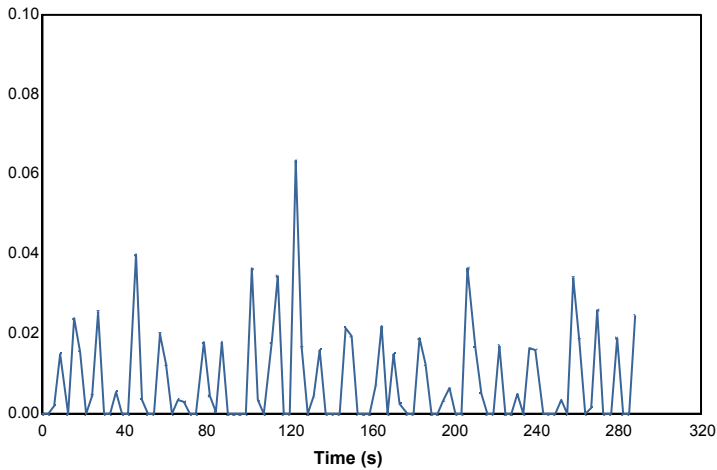
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

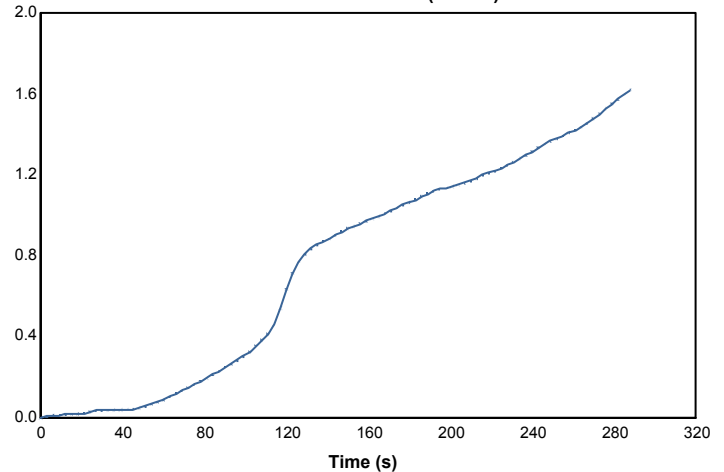
Client : Verosol
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Revesby NSW 2212

Test Number : 19-006273
Issue Date : 06/12/2019
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Order Number : PO 031856-1

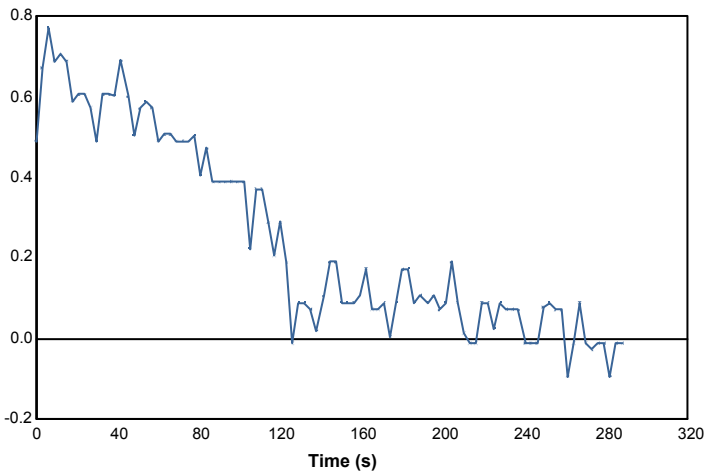
Mass loss rate (g/s)



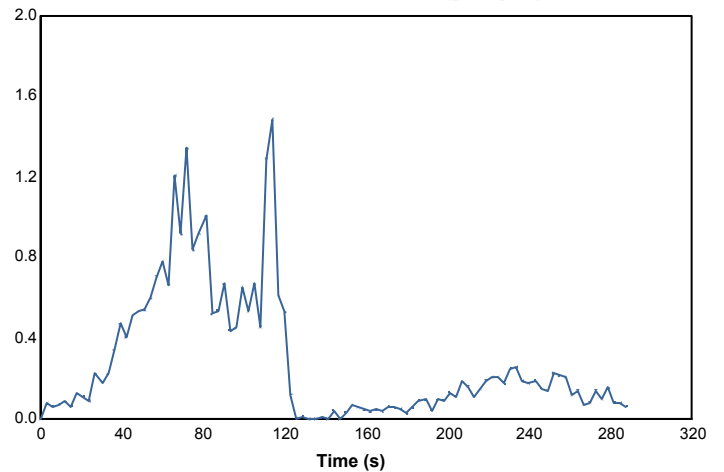
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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