

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
2 Garema Circuit
Kingsgrove NSW 2208

Test Number : 18-007054
Issue Date : 18/01/2019
Print Date : 21/01/2019

Sample Description Clients Ref : "SilverScreen Originals"
Woven Coated fabric
Colour : Grey face/ Silver back
End Use : Roller blinds and Pleated Blinds
Nominal Composition : 100% Polyester (PVC and Formaldehyde free)
Nominal Mass per Unit Area/Density : 142 g/m² +/- 5%
Nominal Thickness : 0.23mm +/- 5%

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 18/01/2019
Operator AWTA Test Operator 3
Face Tested Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	16.1	5.1	16.4	9.7	10.1	9.1	11.1	kW/m ²
Average Specific extinction area	693.1	577.1	460.7	556.2	583.0	694.2	594.0	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	18	20	22	17	27	22	21	sec
Test duration	268	262	280	247	310	308	279	sec
Peak heat release after ignition	109.0	87.8	90.3	98.3	120.7	109.2	102.6	kW/m ²
Average heat at 60 s	43.5	28.2	38.6	33.1	36.7	35.5	35.9	kW/m ²

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Average heat at 180 s	19.1	7.7	19.1	12.4	14.6	13.7	14.5	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	9.7	8.6	3.1	kW/m ²
Total heat released	4.0	1.8	4.2	2.4	2.9	2.7	3.0	MJ/m ²
Ave. effective heat of combustion	27.6	7.8	24.4	15.1	18.0	17.8	18.4	MJ/kg
Initial thickness	1	1	1	1	1	1	1.0	mm
Initial mass	1.4	1.2	1	1.4	2	1.5	1.4	g
Mass at sustained flaming	1.2	1.2	1.0	1.3	0.6	1.3	1.1	g
Mass remaining	0.1	0.0	0.0	0.3	0.8	0.2	0.2	g
Mass percentage pyrolysed	92.5	100.0	100.0	78.2	60.0	87.3	86.3	%
Mass loss	0.2	0.2	0.2	0.1	0.1	0.2	0.2	kg/m ²
Average rate of mass loss	0.8	1.1	1.1	4.0	5.6	1.3	2.3	g/m ² .s

Additional Observations none

Difficulties Encountered during Testing none

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 intumescent sample within the sample holder.

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

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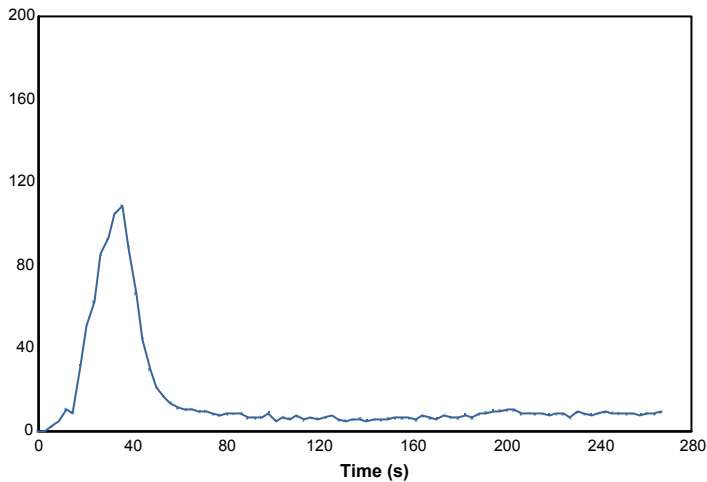
TEST REPORT

Client : Verosol
2 Garema Circuit
Kingsgrove NSW 2208

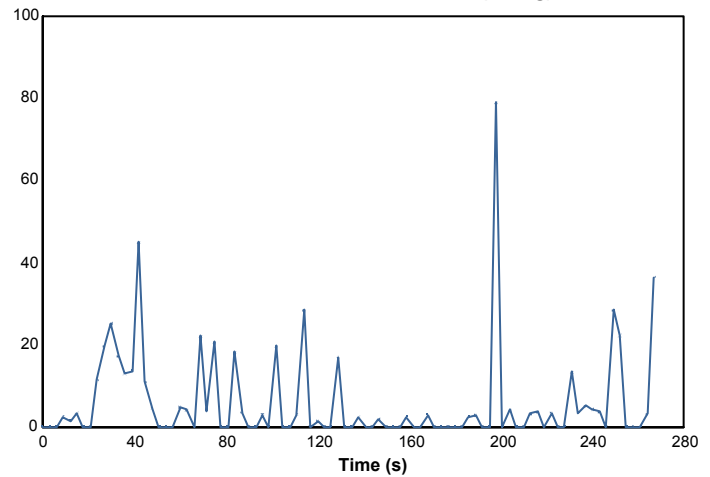
Test Number : 18-007054
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Specimen : 1

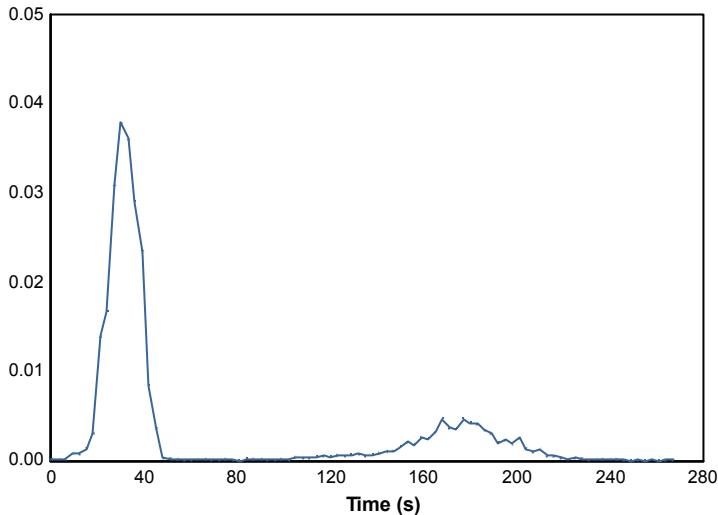
Heat release rate (kW/m²)



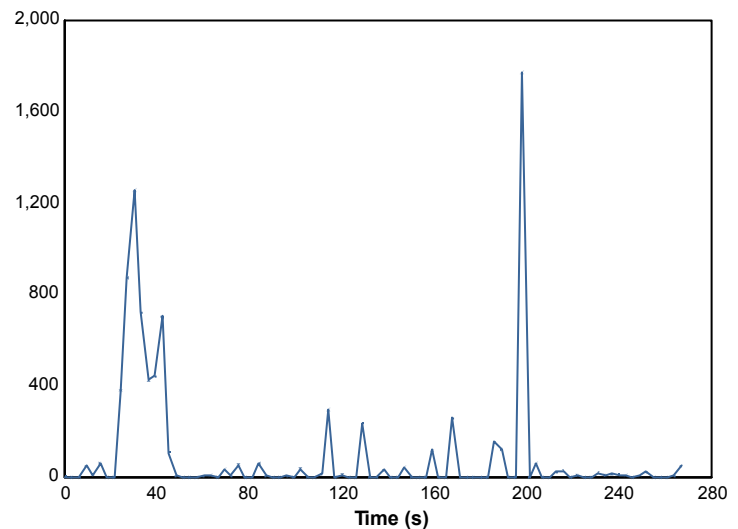
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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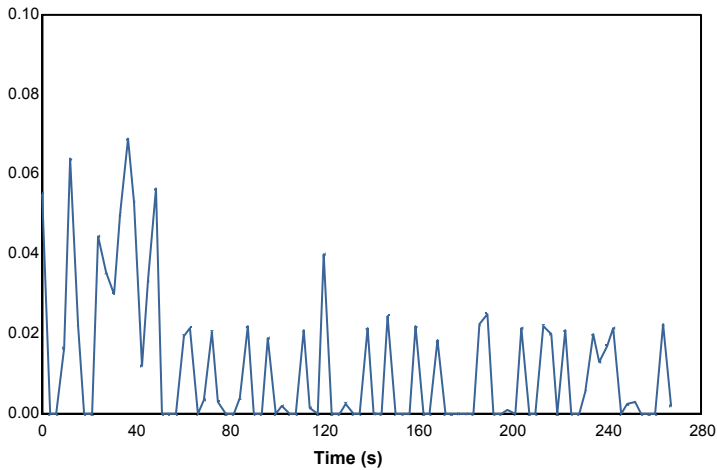
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

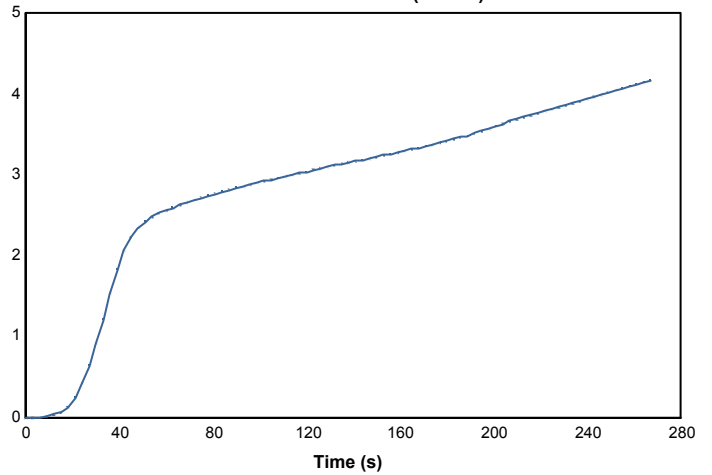
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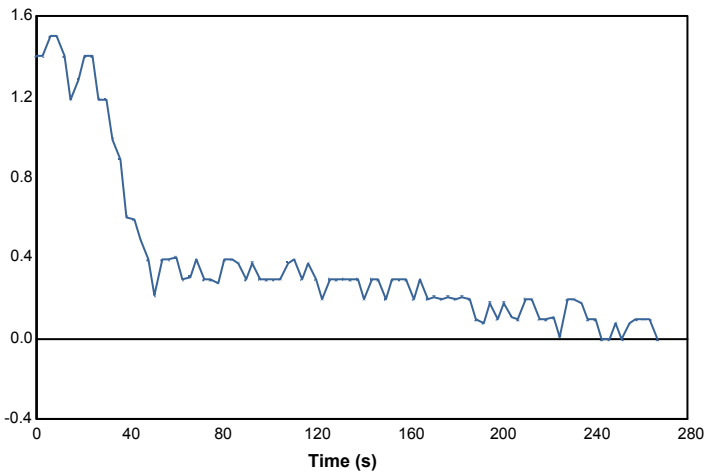
Mass loss rate (g/s)



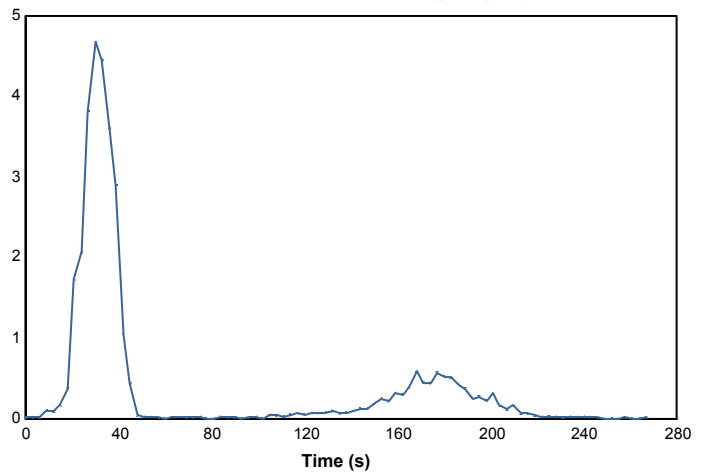
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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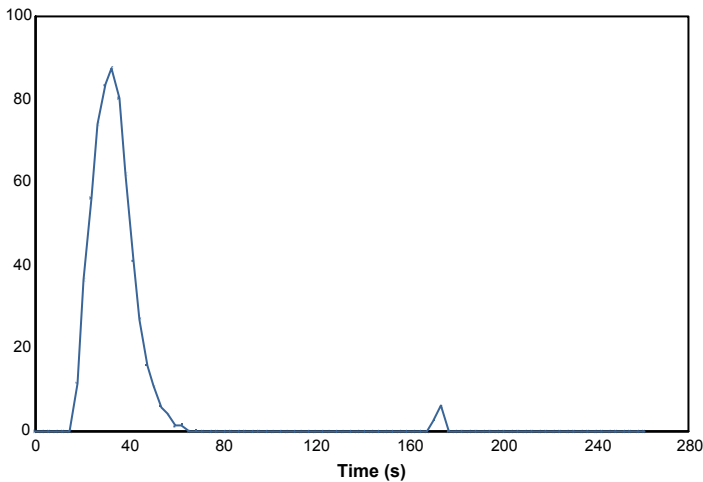
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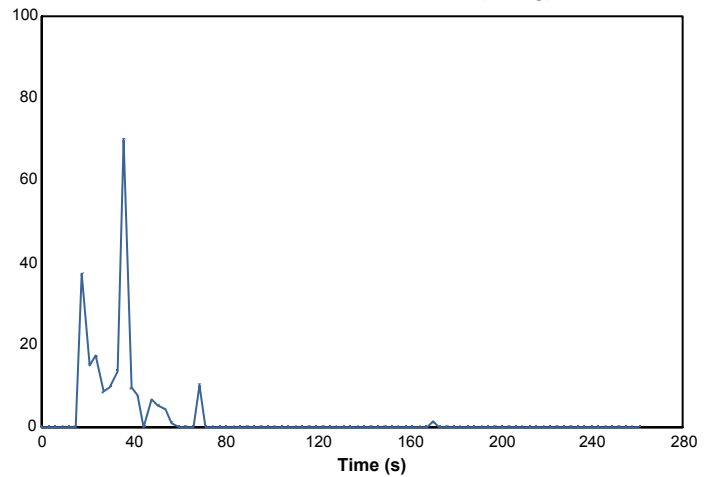
Test Number : 18-007054
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Specimen : 2

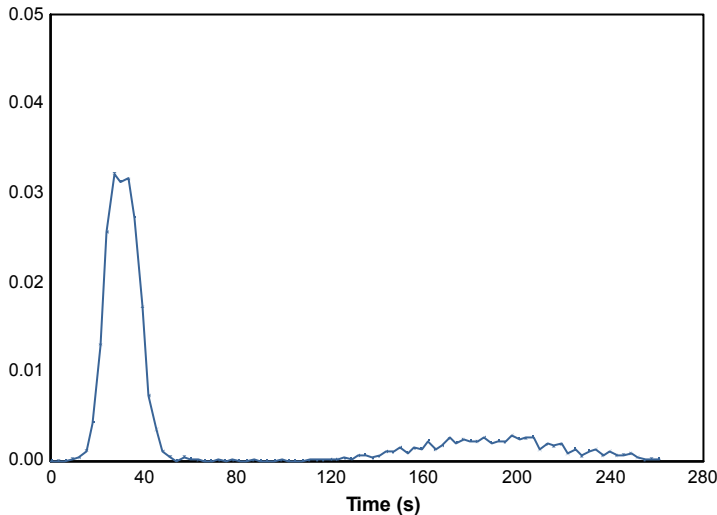
Heat release rate (kW/m²)



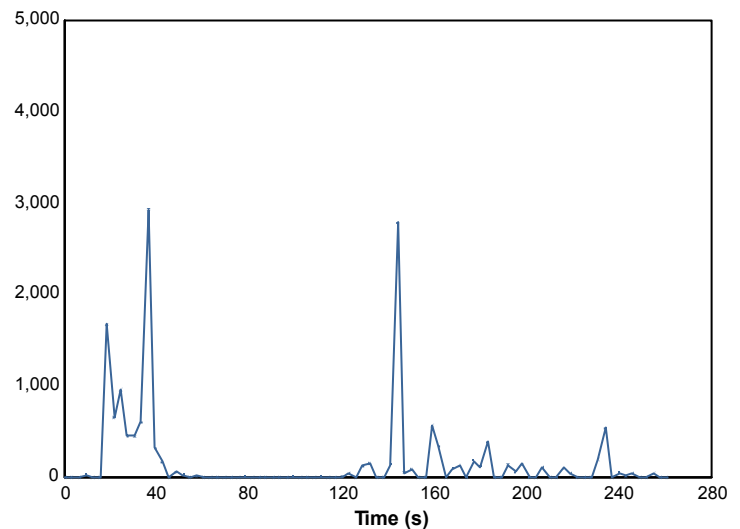
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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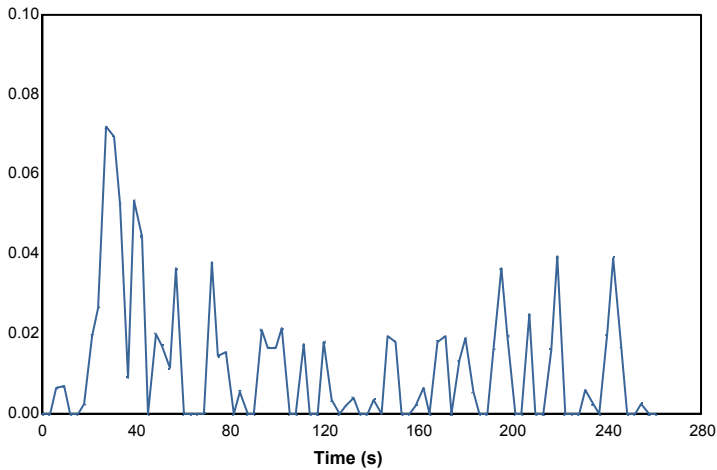
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TEST REPORT

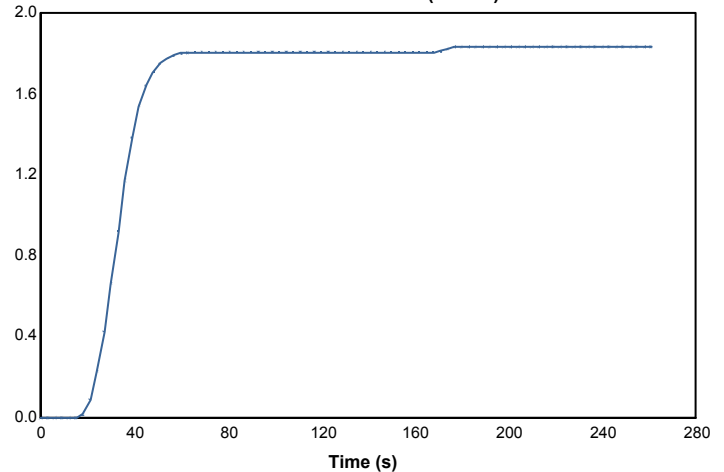
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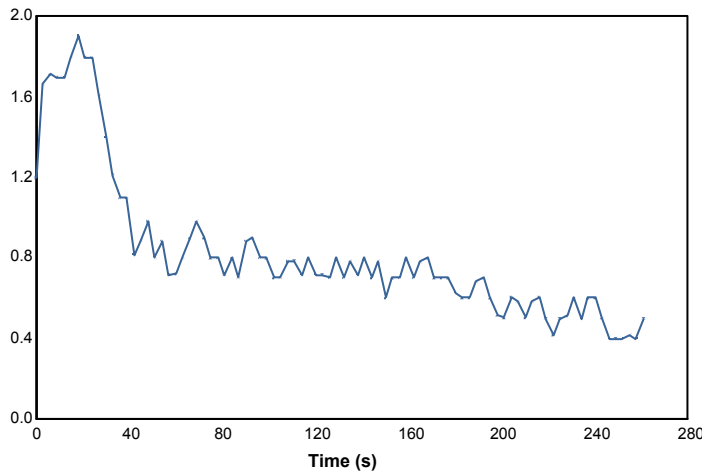
Mass loss rate (g/s)



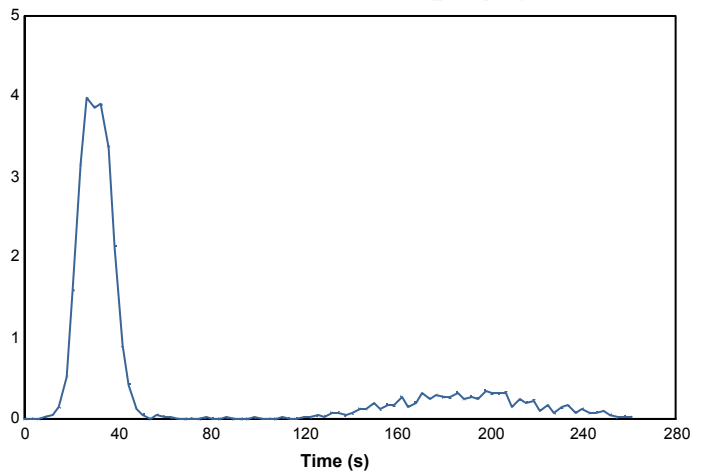
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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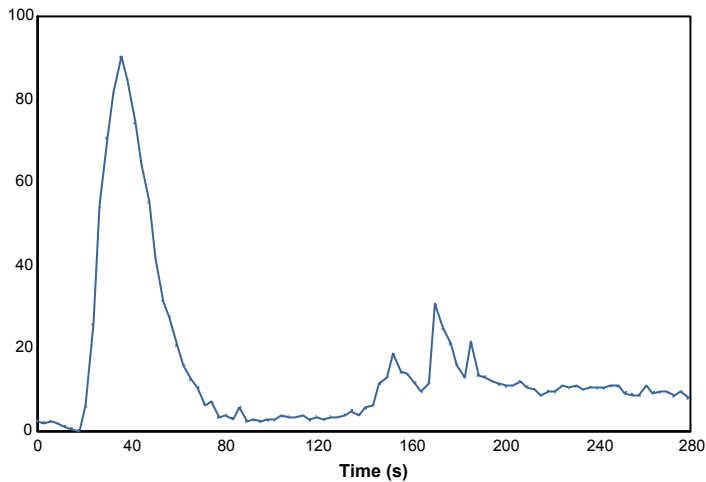
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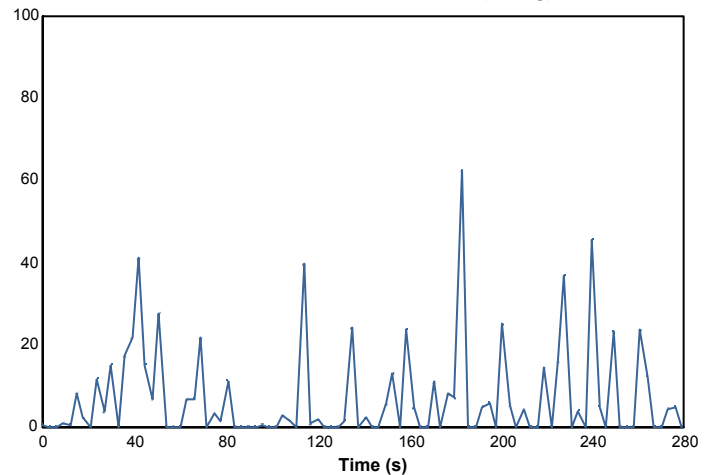
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Specimen : 3

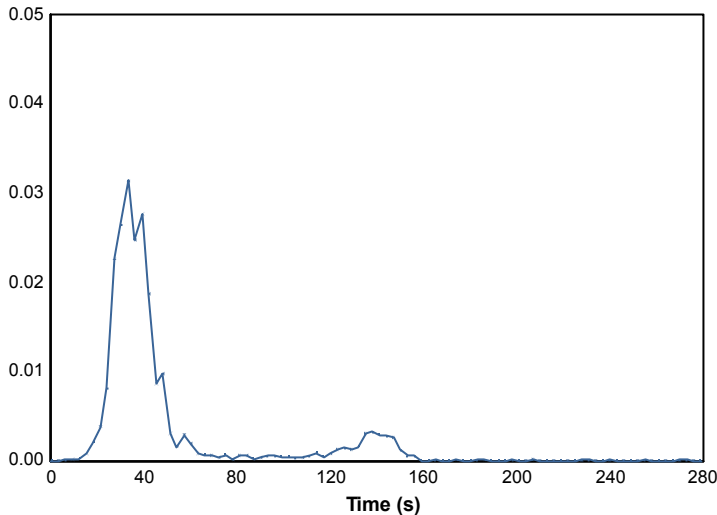
Heat release rate (kW/m²)



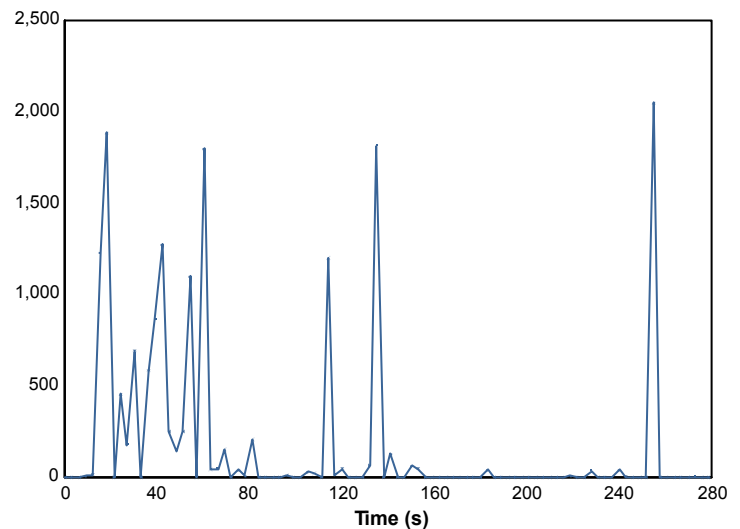
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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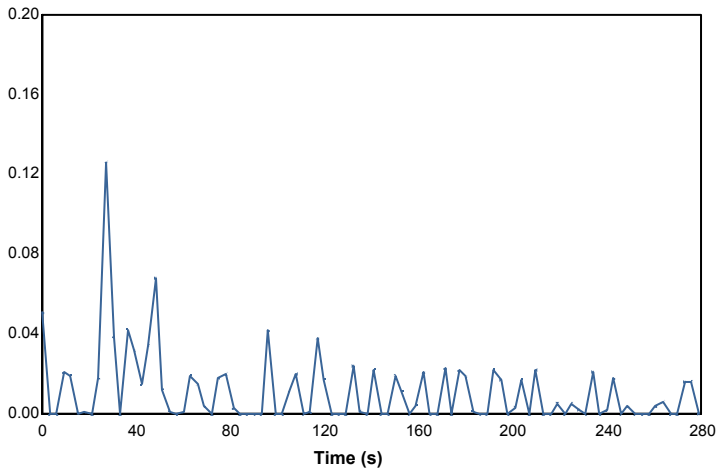
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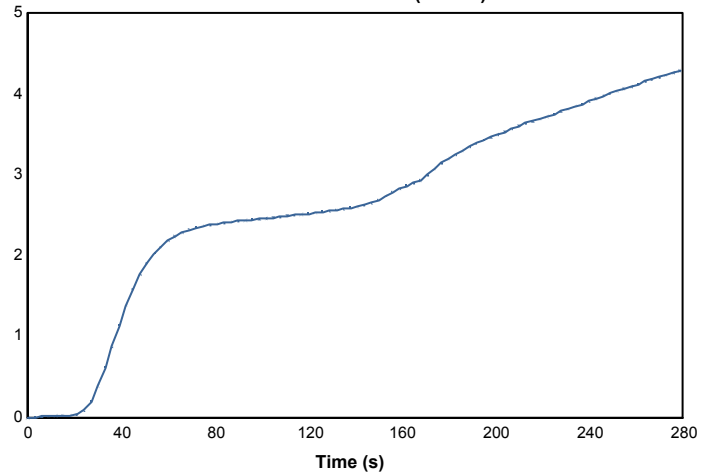
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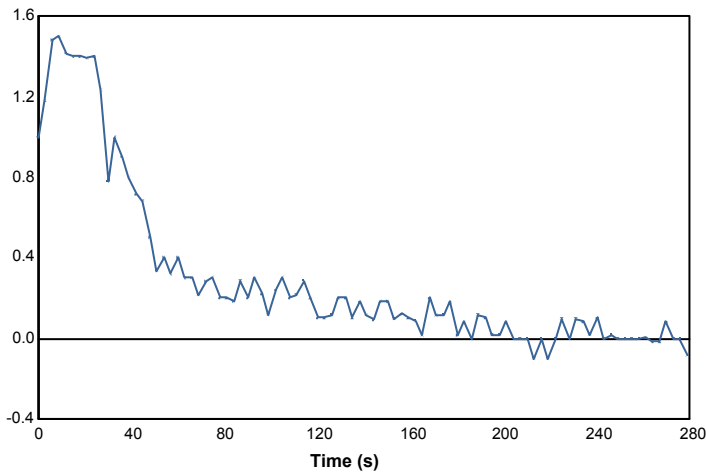
Mass loss rate (g/s)



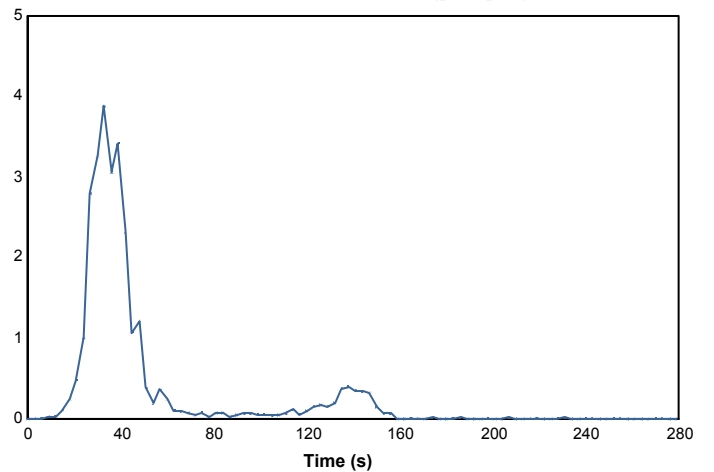
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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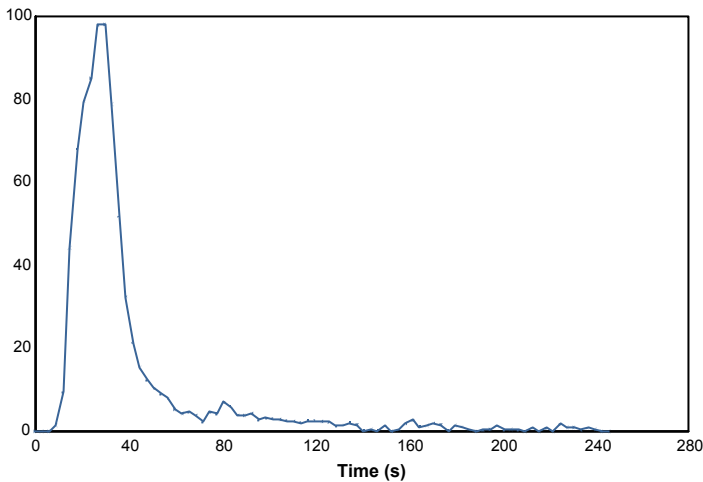
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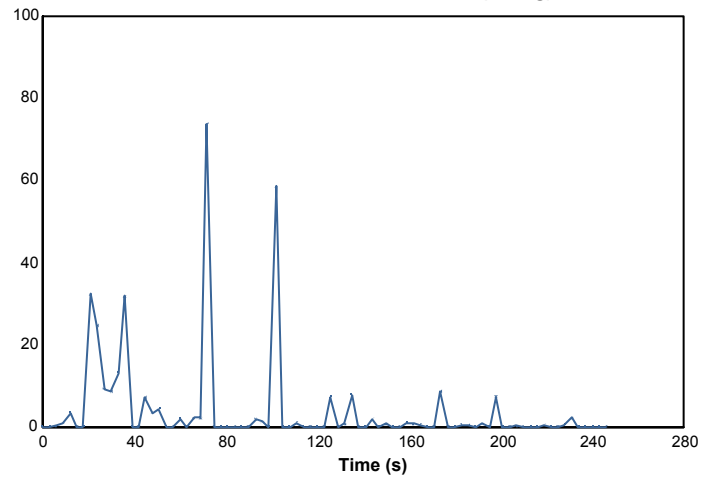
Test Number : 18-007054
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Specimen : 4

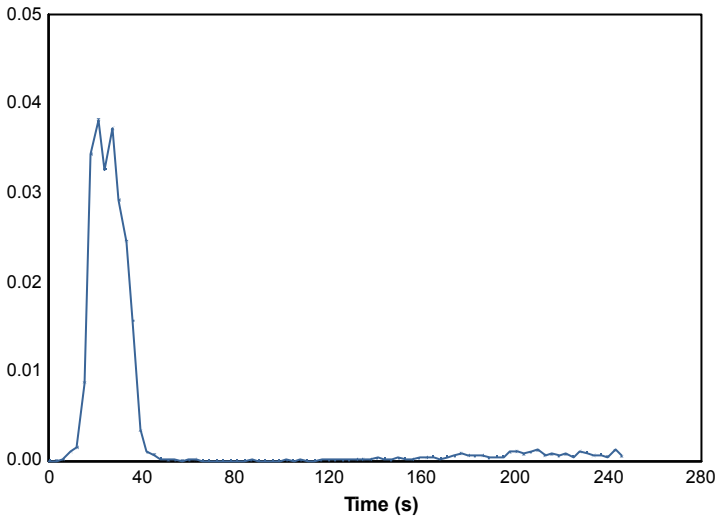
Heat release rate (kW/m²)



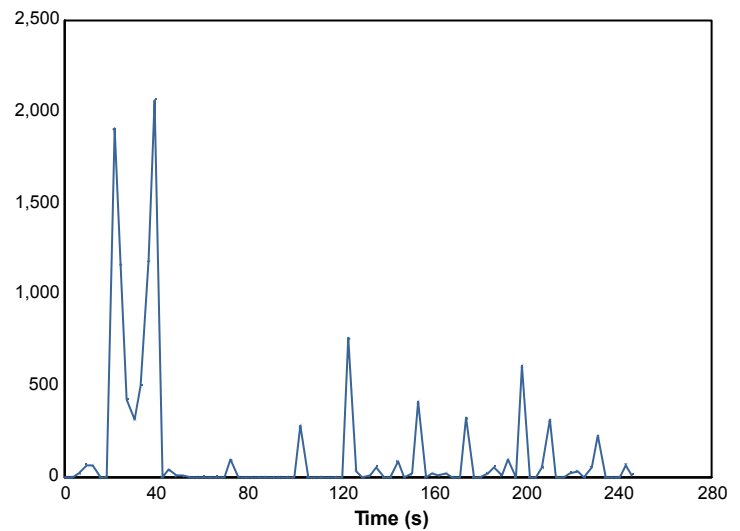
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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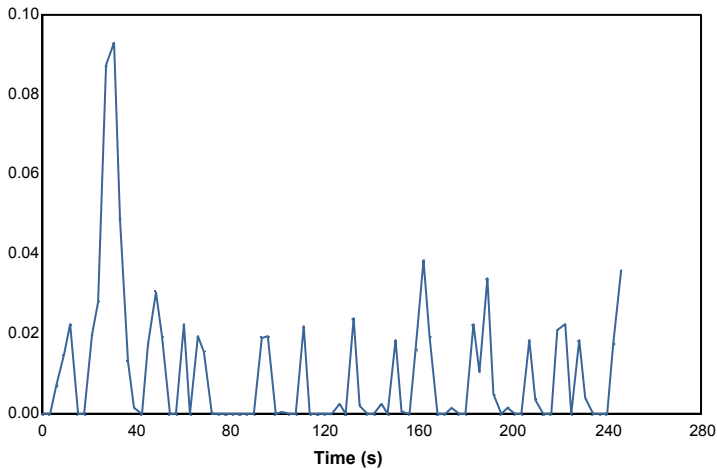
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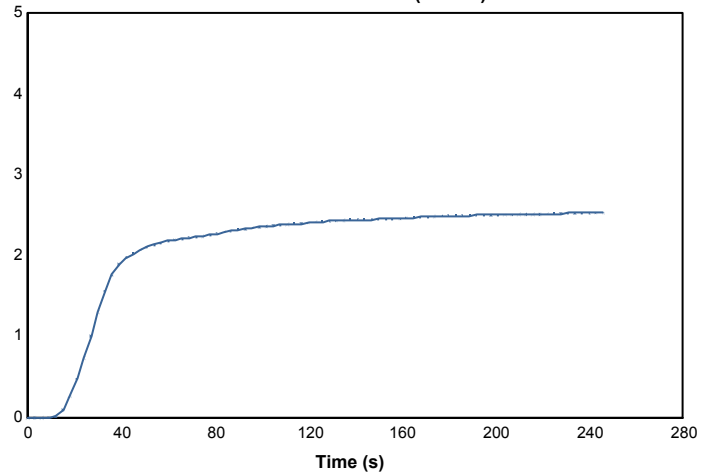
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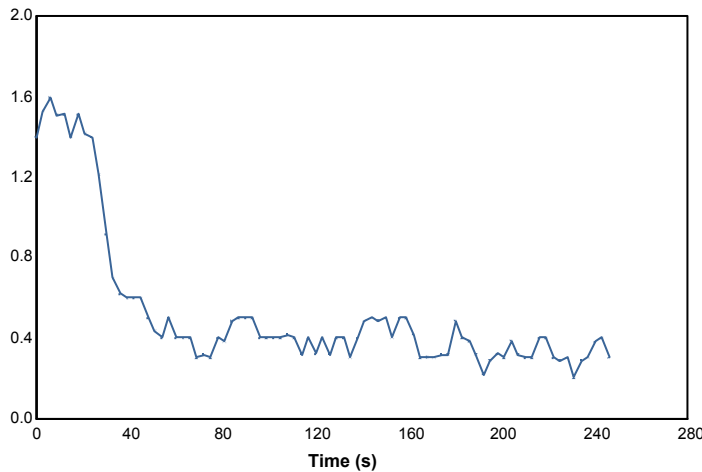
Mass loss rate (g/s)



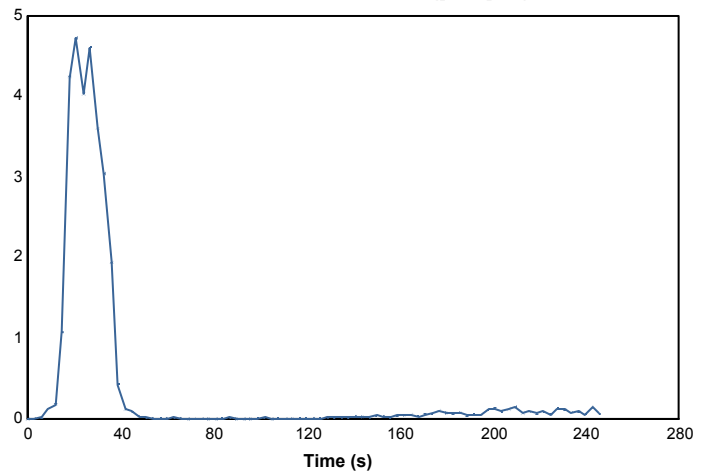
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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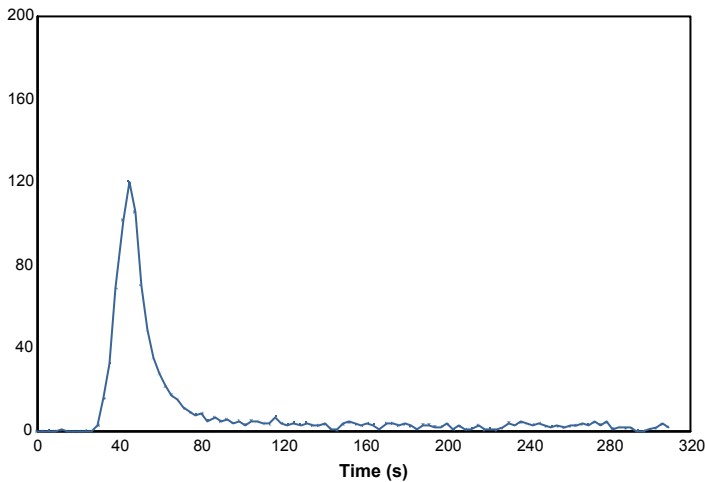
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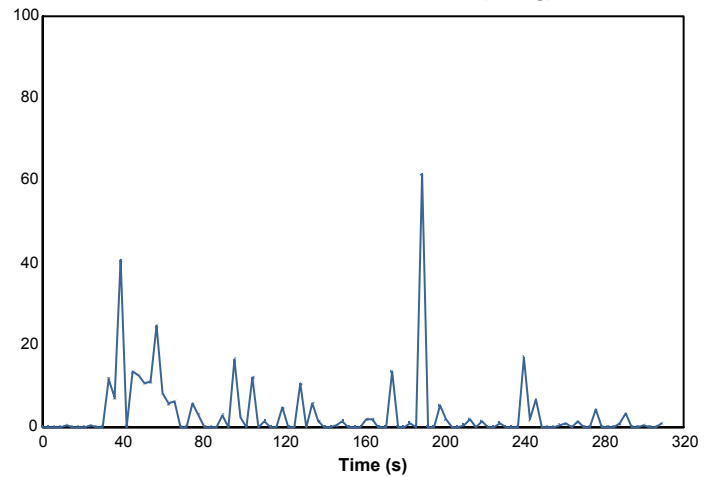
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Specimen : 5

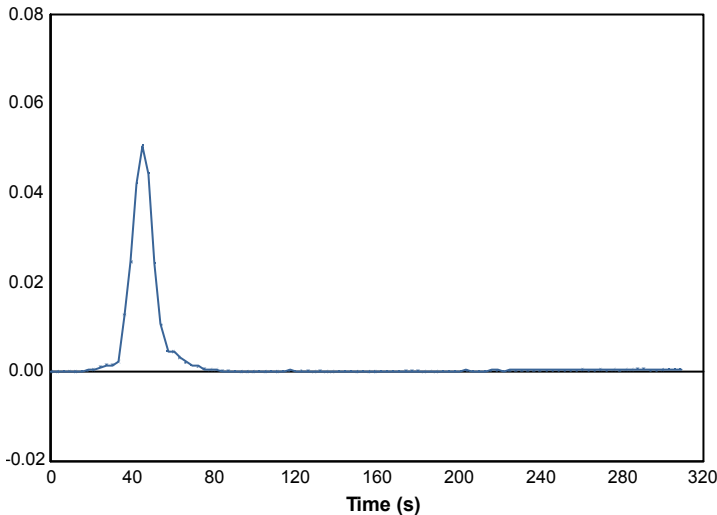
Heat release rate (kW/m²)



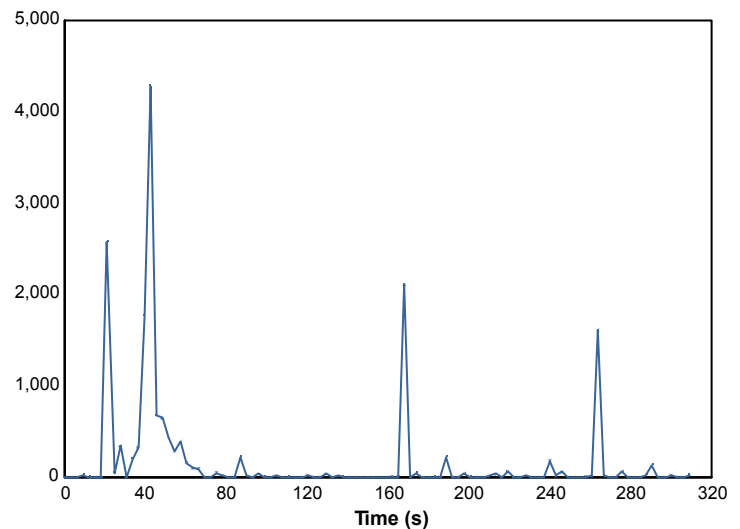
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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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

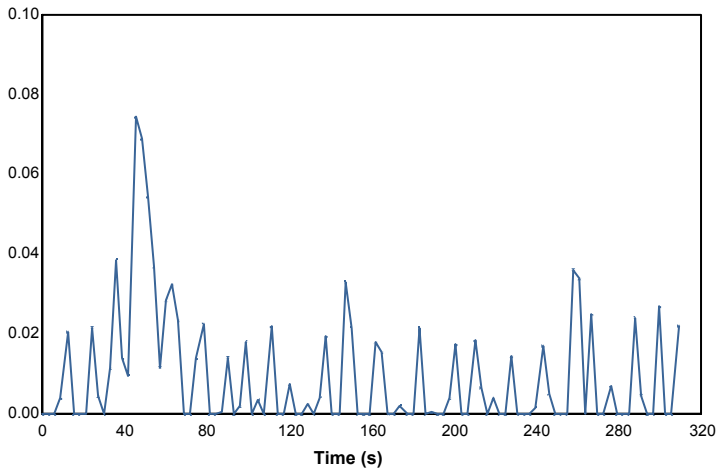
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

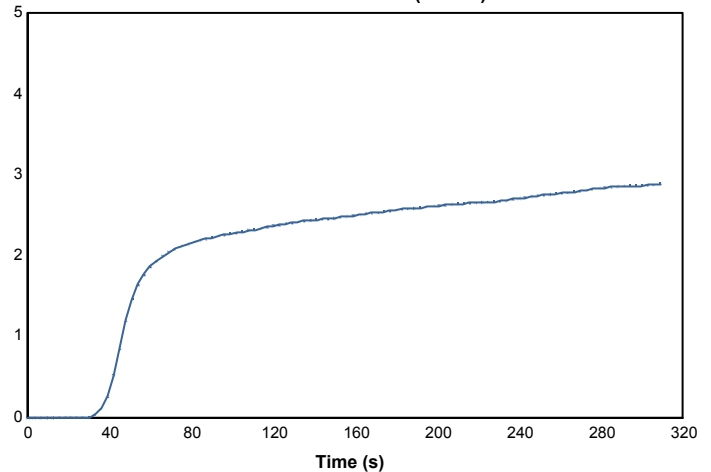
Client : Verosol
2 Garema Circuit
Kingsgrove NSW 2208

Test Number : 18-007054
Issue Date : 18/01/2019
Print Date : 21/01/2019

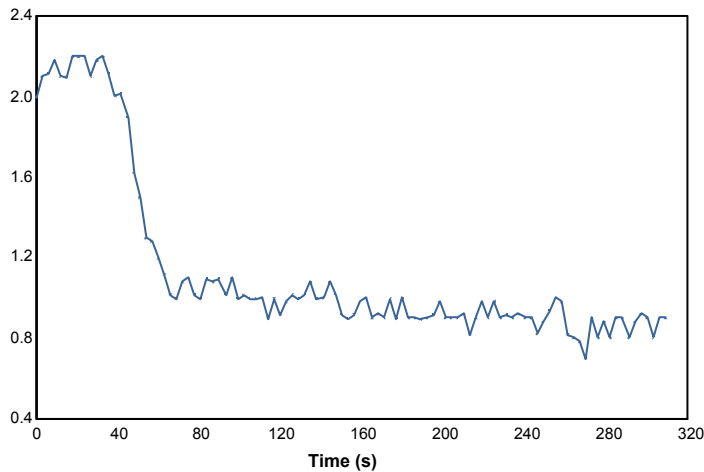
Mass loss rate (g/s)



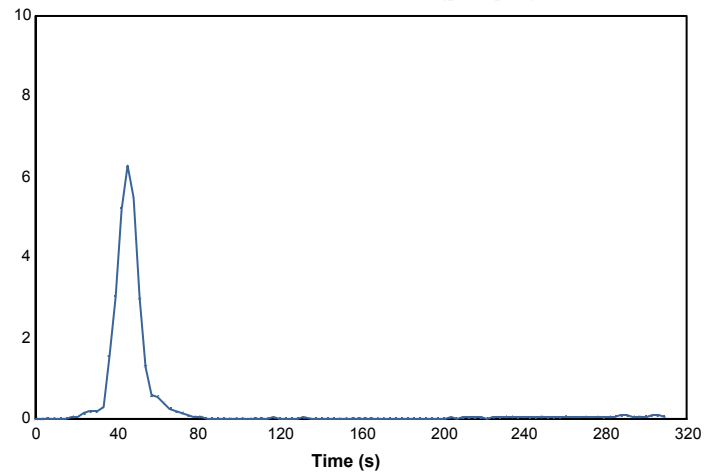
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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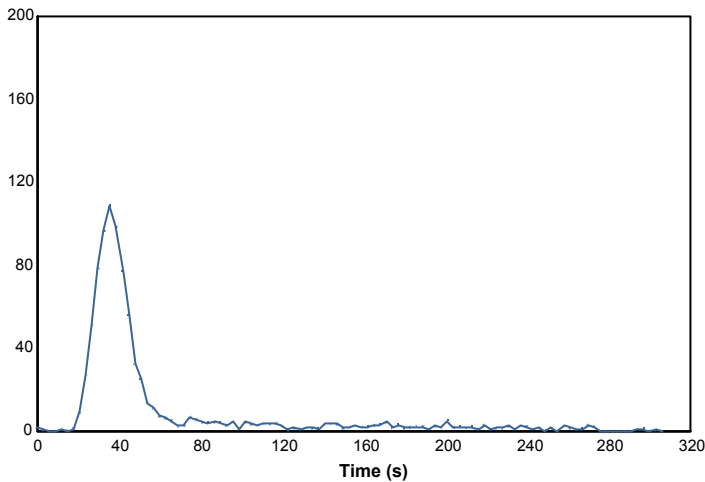
TEST REPORT

Client : Verosol
2 Garema Circuit
Kingsgrove NSW 2208

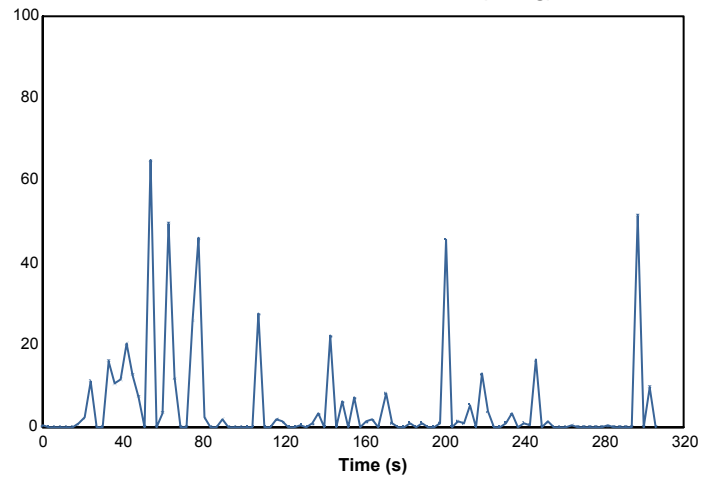
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Issue Date : 18/01/2019
Print Date : 21/01/2019

Specimen : 6

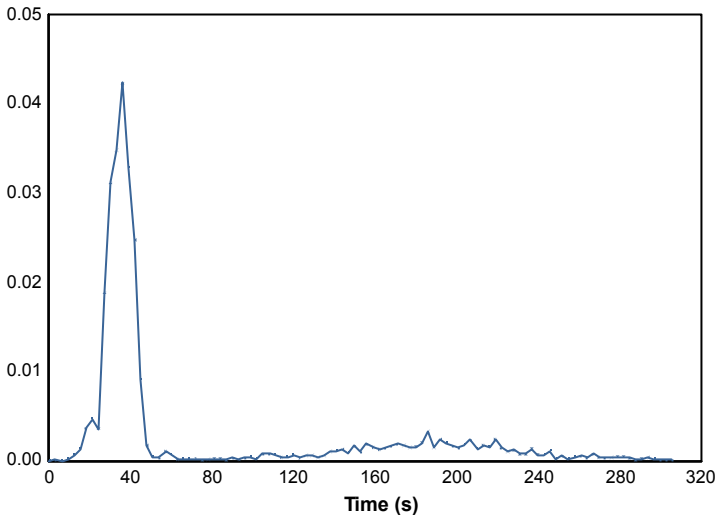
Heat release rate (kW/m²)



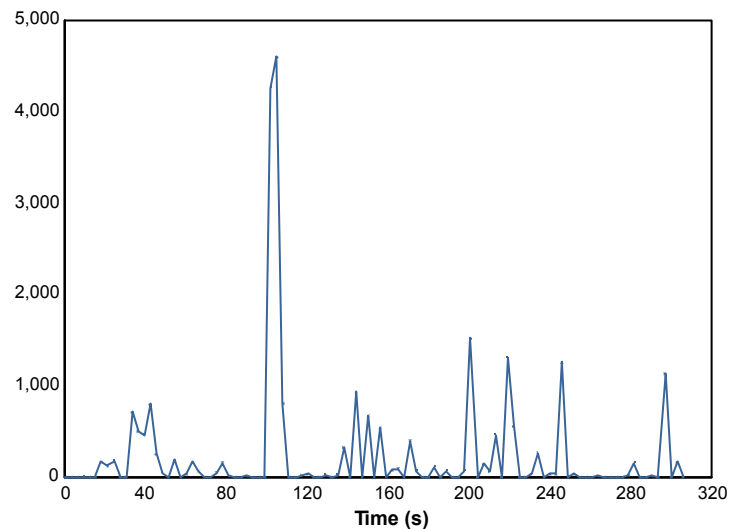
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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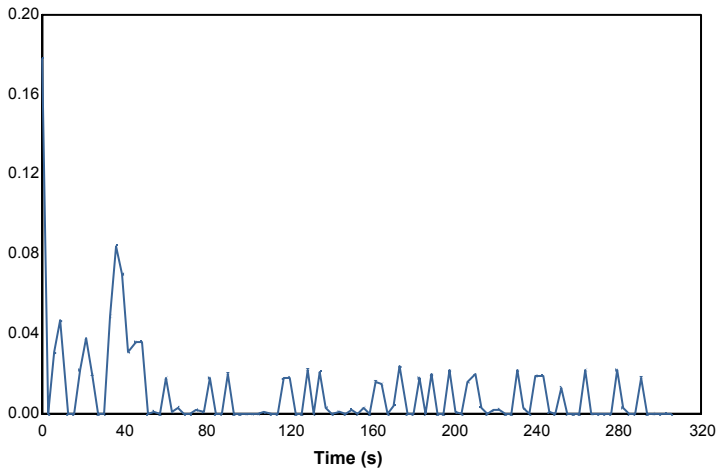
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

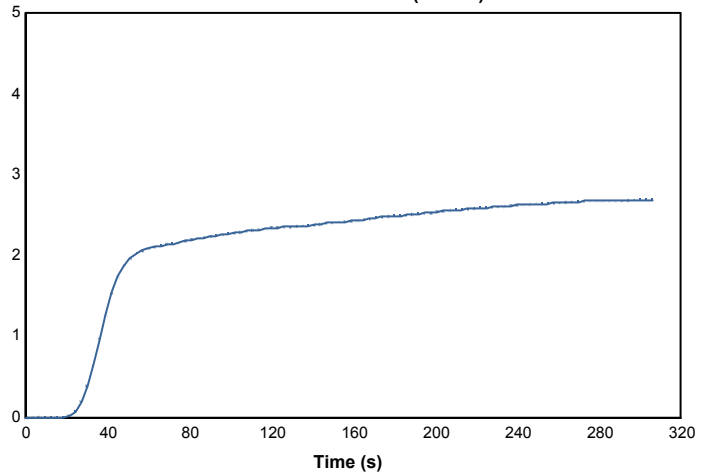
Client : Verosol
2 Garema Circuit
Kingsgrove NSW 2208

Test Number : 18-007054
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Print Date : 21/01/2019

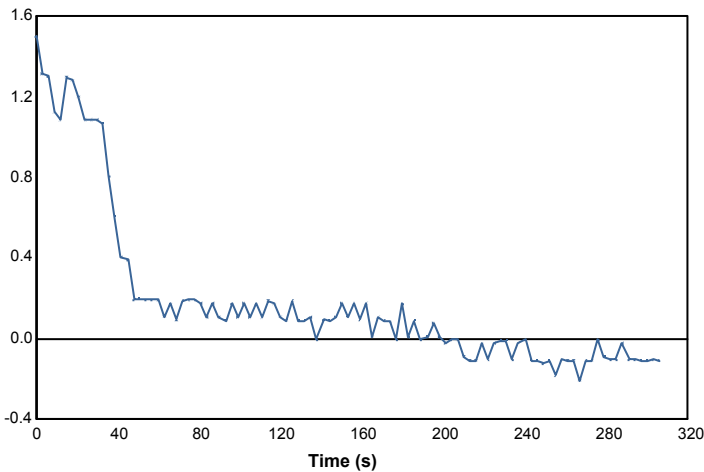
Mass loss rate (g/s)



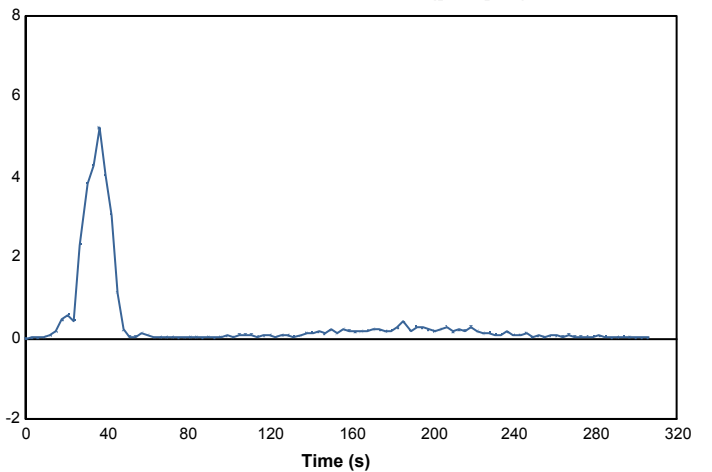
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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