

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 : Specialized Laminators Qld
175 Magnesium Drive
Crestmead QLD 4132

Test Number : 19-005001
Issue Date : 17/10/2019
Print Date : 21/10/2019

Sample Description Clients Ref : "Cleantouch High Pressure Laminate"
High Pressure Laminate
Colour : Black
End Use : Wall Liner, Table Top Liner
Nominal Composition : Melamine resin and fibre particles
Nominal Mass per Unit Area/Density : 940g/m²
Nominal Thickness : 0.8mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter
Date Tested 17/10/2019
Operator AWTA Test Operator 7
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	44.3	39.0	51.2	44.8	kW/m ²
Average Specific extinction area	11.7	9.0	21.5	14.1	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	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	23	19	20	21	sec
Test duration	289	435	248	324	sec
Peak heat release after ignition	145.9	111.9	228.7	162.2	kW/m ²
Average heat at 60 s	99.6	80.6	131.9	104.0	kW/m ²

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- Mechanical Testing
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APPROVED SIGNATORY

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

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Average heat at 180 s	55.9	60.2	59.5	58.5	kW/m ²
Average heat at 300 s	n/a	46.0	n/a	15.3	kW/m ²
Total heat released	11.8	16.2	11.6	13.2	MJ/m ²
Average effective heat of combustion	6.7	6.6	6.5	6.6	MJ/kg
Initial thickness	6.8	6.8	6.8	6.8	mm
Initial mass	96.0	94.1	96.4	95.5	g
Mass at sustained flaming	95.8	93.9	96.2	95.3	g
Mass remaining	81.7	74.1	82.1	79.3	g
Mass percentage pyrolysed	14.9	21.3	14.8	17.0	%
Mass loss	1.8	2.5	1.8	2.0	kg/m ²
Average rate of mass loss	6.6	5.9	7.9	6.8	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.

Samples were adhered to a substrate of 6mm thick cement sheet using Professional Ultra Clear Pro 880 adhesive prior to testing

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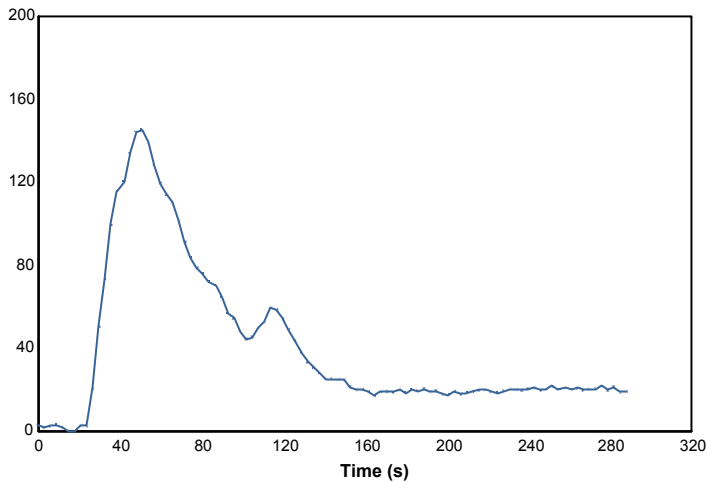
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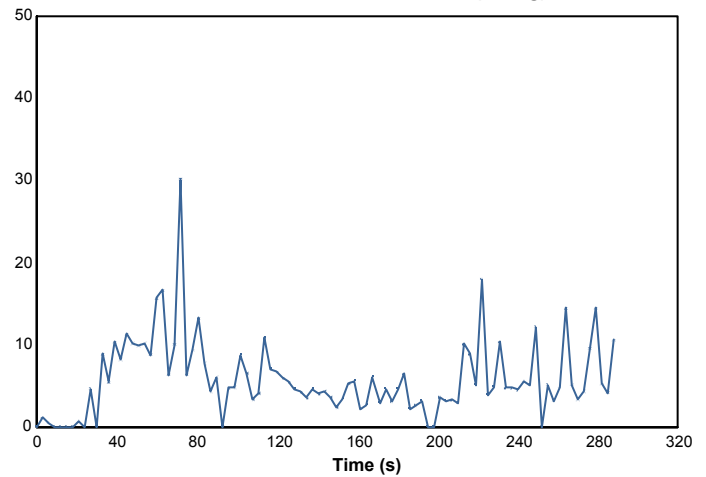
Test Number : 19-005001
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Specimen : 1

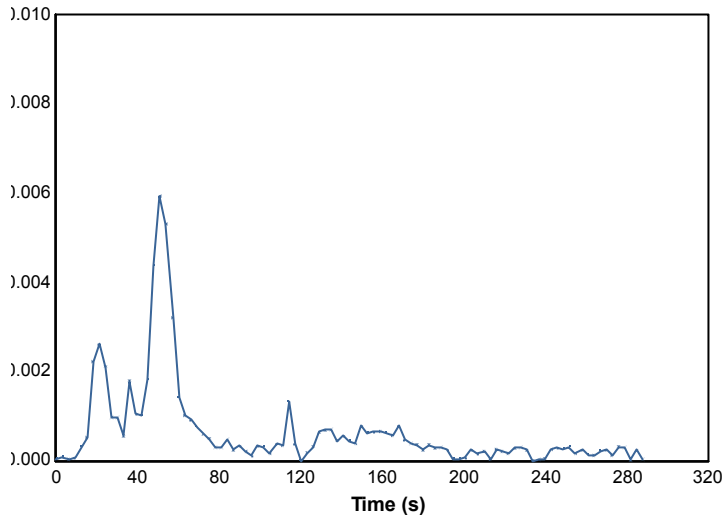
Heat release rate (kW/m²)



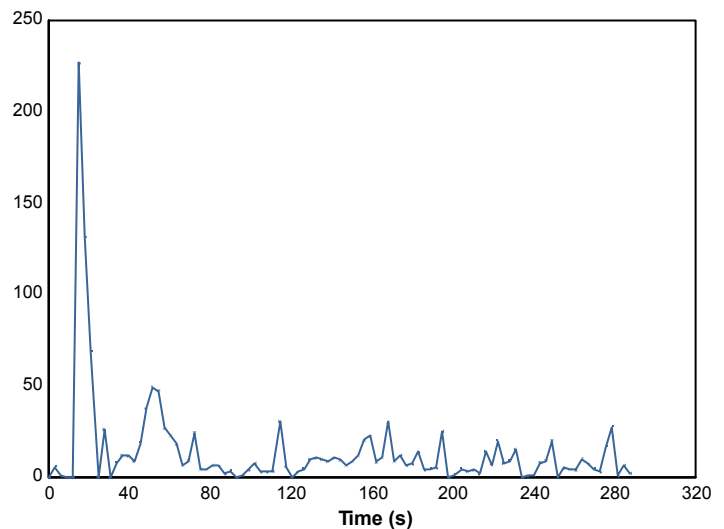
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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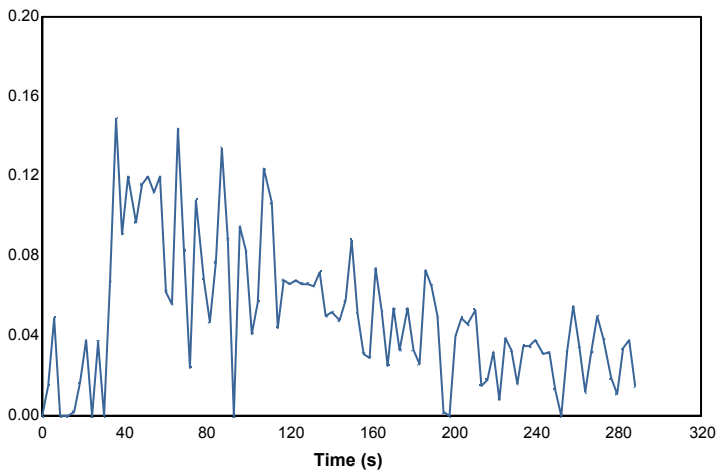
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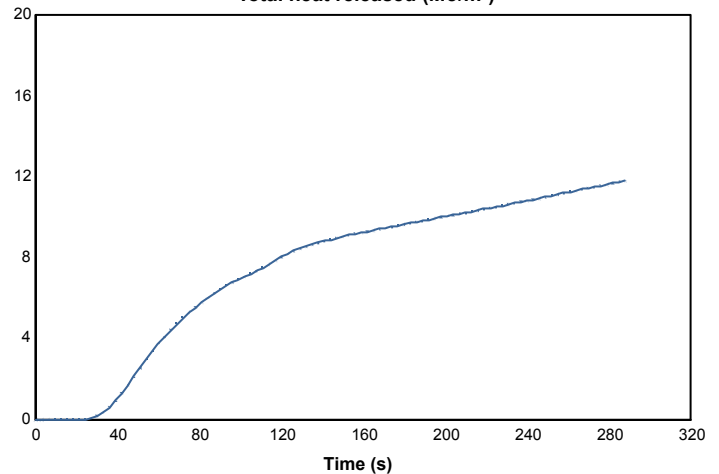
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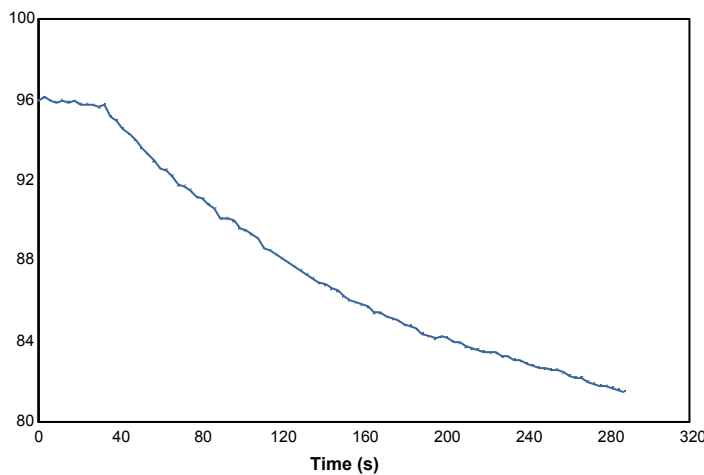
Mass loss rate (g/s)



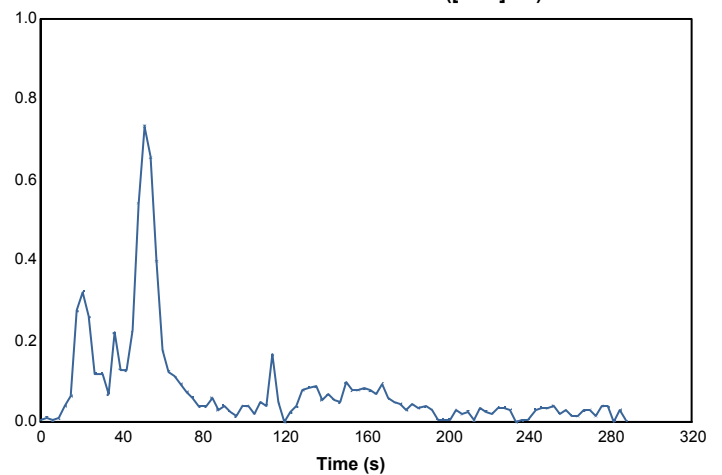
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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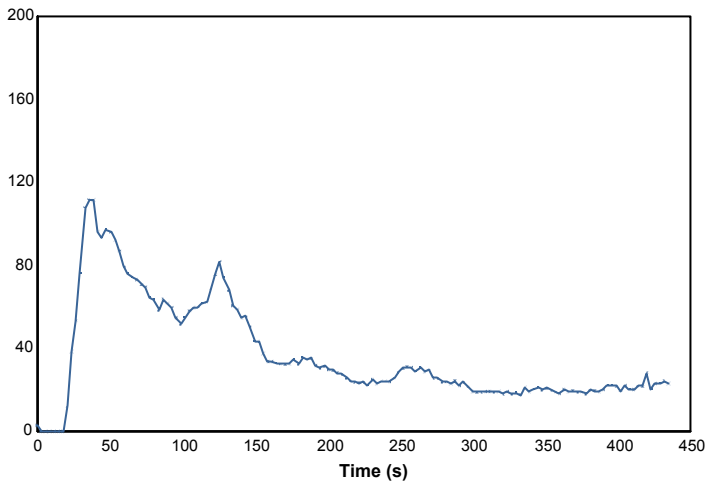
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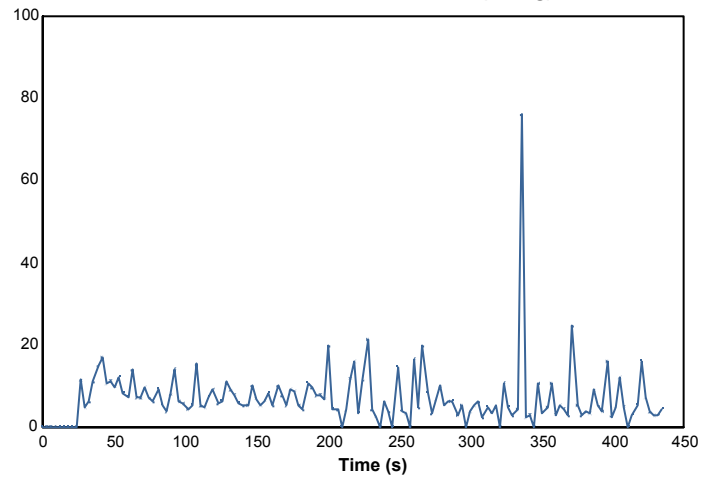
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Specimen : 2

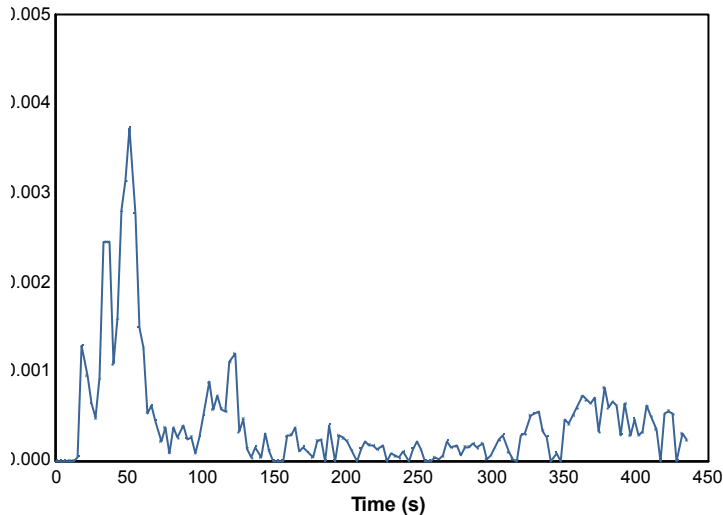
Heat release rate (kW/m²)



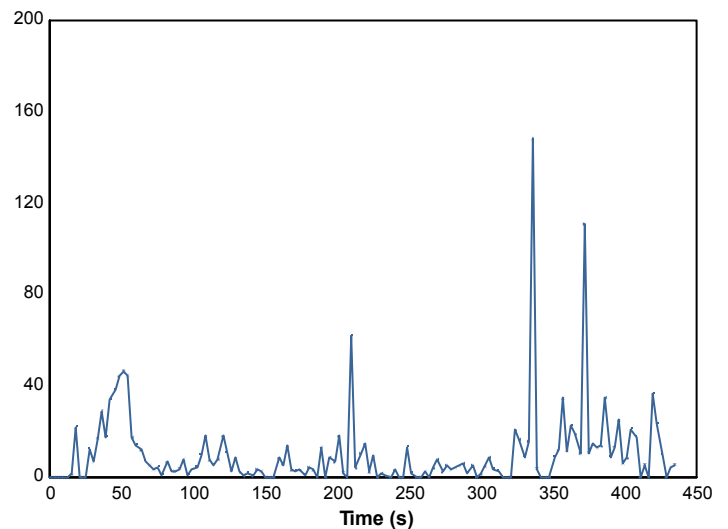
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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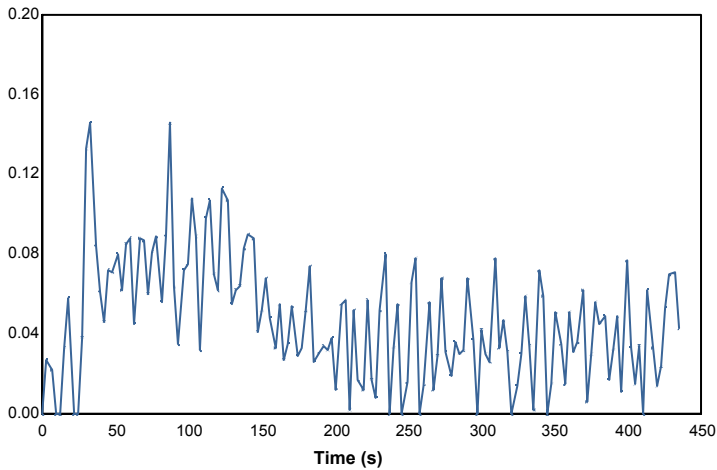
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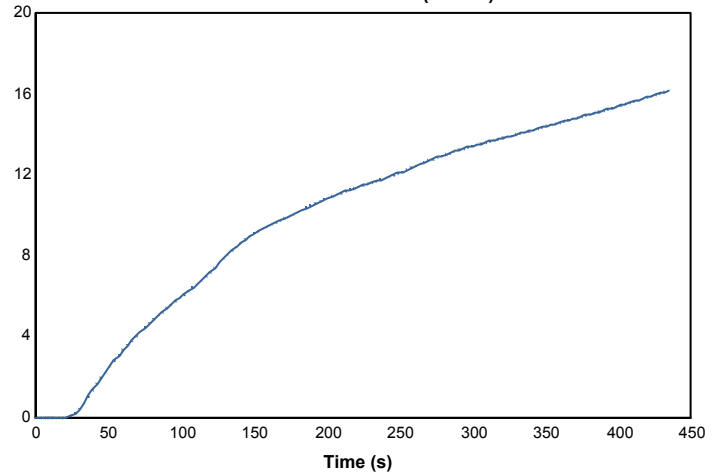
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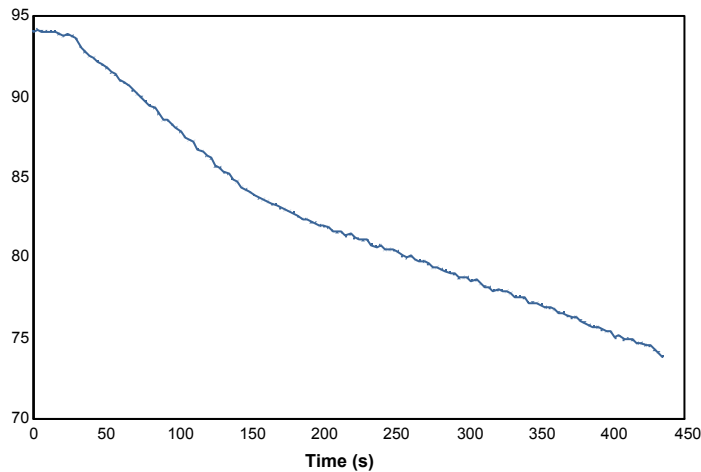
Mass loss rate (g/s)



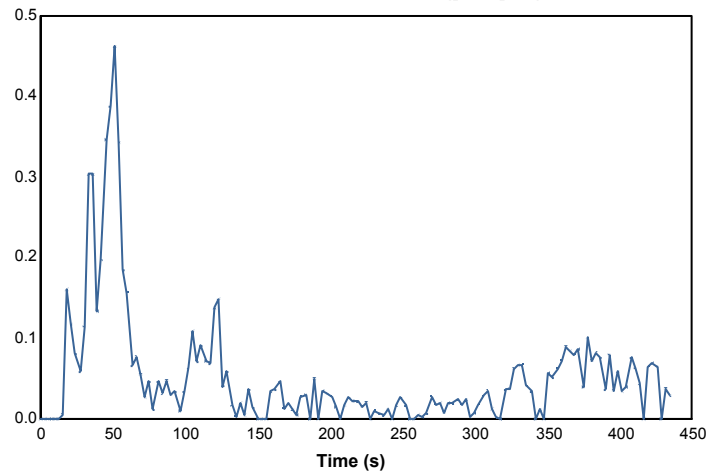
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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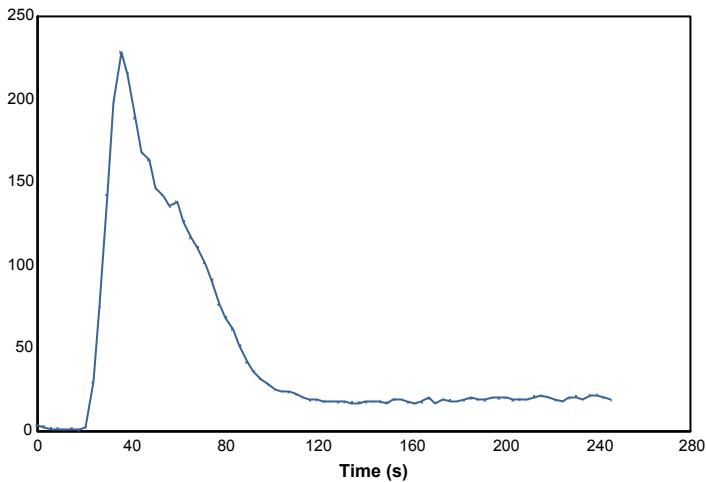
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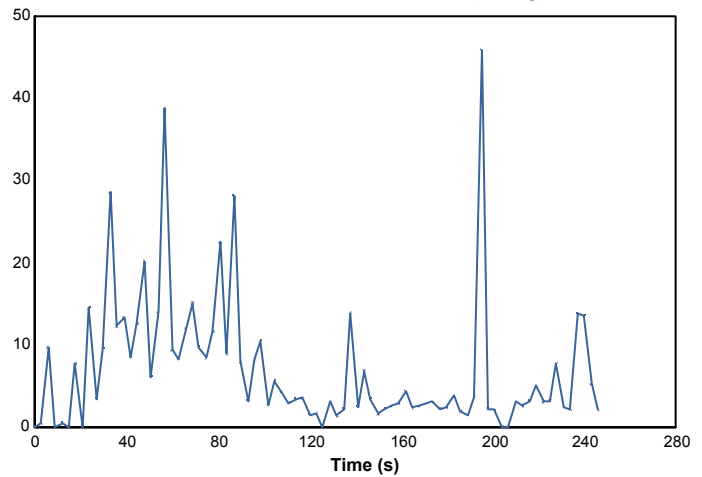
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Specimen : 3

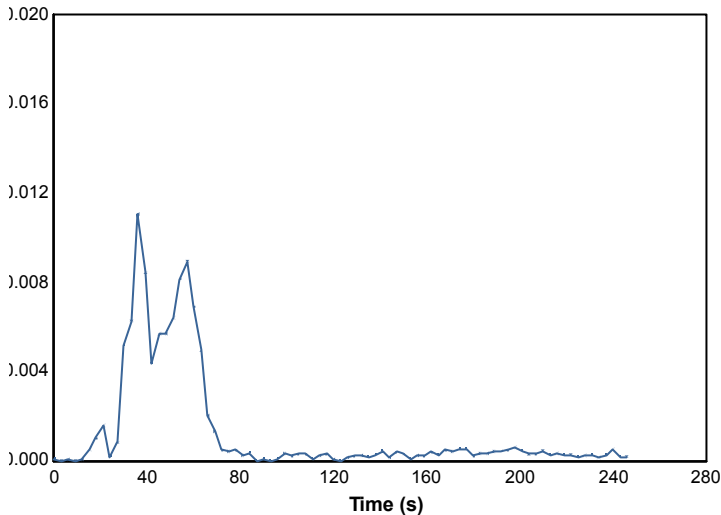
Heat release rate (kW/m²)



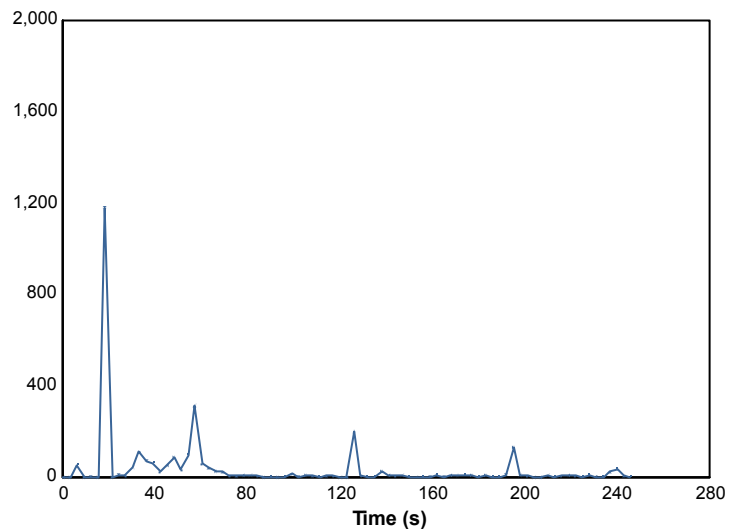
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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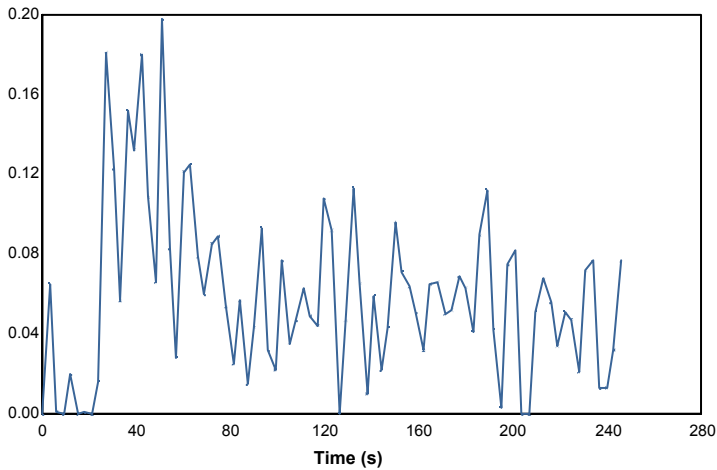
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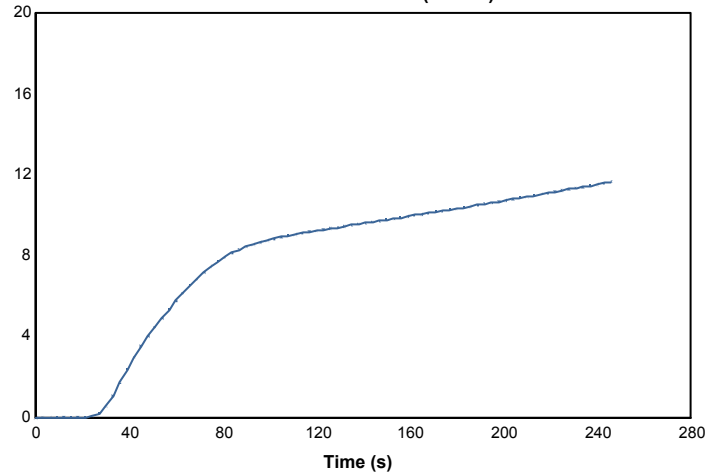
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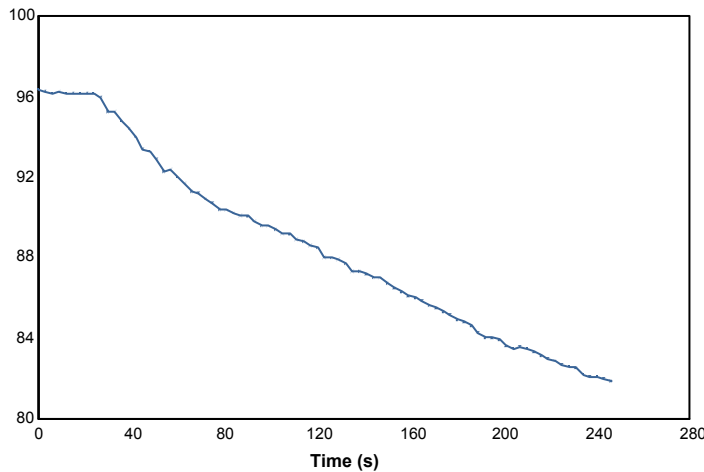
Mass loss rate (g/s)



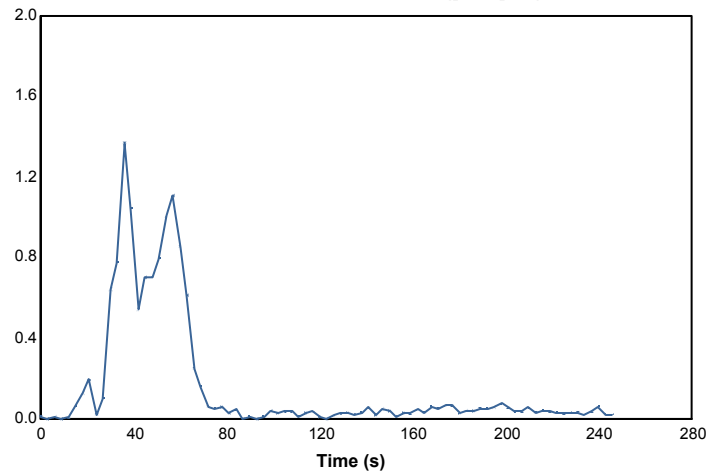
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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