

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

TEST REPORT

Client : Specialty Theatre Supplies
40 Tennyson Street
Williamstown VIC 3016

Test Number : 23-002793
Issue Date : 3/08/2023
Print Date : 10/08/2023
Order Number : 9030

Sample Description Clients Ref : "420gsm IFR Wool"
Milled woven fabric
Colour : Black
End Use : Theatre Drapery
Nominal Composition : Wool
Nominal Mass per Unit Area/Density : 420g/m2



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Accreditation Numbers: 983, 985, and 1356

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

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AS/NZS 1530.3-1999

**Methods for Fire Tests on Building Materials, Components and Structures
Part 3: Simultaneous Determination of Ignitability,
Flame Propagation, Heat Release and Smoke Release**

Face tested:	Face		
Date tested:	03-08-2023		
	Standard Error		Mean
Ignition time	Nil		Nil min
Flame propagation time	Nil		Nil sec
Heat release integral	Nil		Nil kJ/m ²
Smoke release, log d	0.0442		-0.9474
Optical density, d			0.1157 / metre
Number of specimens ignited:			0
Number of specimens tested:			6
Regulatory Indices:			
Ignitability Index			0 Range 0-20
Spread of Flame Index			0 Range 0-10
Heat Evolved Index			0 Range 0-10
Smoke Developed Index			4 Range 0-10

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These results only apply to the specimen mounted, as described in this report. The result of this fire test 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 fire hazard under all fire conditions.

The reaction of thin unsupported flexible materials to flame impingement can be assessed in accordance with AS 1530.2. Where materials of thickness less than 2mm that are sufficiently flexible to be bent by hand around a mandrel of 2mm diameter or less are subjected to the test described herein, they should also be subjected to the test in AS 1530.2.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

To allow free movement of sample during testing all corners were folded away from the clamps.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

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A handwritten signature in blue ink, appearing to read 'Fiona McDonald'.

Fiona McDonald

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A handwritten signature in black ink, appearing to read 'Michael A. Jackson'.

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Print Date : 25/07/2023
Order Number : 9030

Sample Description Clients Ref : "420gsm IFR Wool"
Milled woven fabric
Colour : Black
End Use : Theatre Drapery
Nominal Composition : Wool
Nominal Mass per Unit Area/Density : 420g/m2
Nominal Thickness : Approx: 1mm



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

Date Tested 20-07-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	18.3	21.1	21.1	20.2	kW/m ²
Average Specific extinction area	104.4	46.8	43.8	65.0	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	19	18	20	19	sec
Test duration	200	199	201	200	sec
Peak heat release after ignition	95.1	119.9	99.9	105.0	kW/m ²
Average heat at 60 s	46.4	54.8	54.1	51.8	kW/m ²
Average heat at 180 s	18.3	21.5	21.1	20.3	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	3.3	3.9	3.8	3.6	MJ/m ²
Average effective heat of combustion	6.3	5.1	4.8	5.4	MJ/kg
Initial thickness	7.6	7.6	7.6	7.6	mm
Initial mass	93.6	86.8	86.3	88.9	g
Mass remaining	89.3	80.8	79.9	83.3	g
Mass percentage pyrolysed	4.6	6.9	7.4	6.3	%

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Mass loss	0.5	0.7	0.8	0.7	kg/m ²
Average rate of mass loss	2.9	4.1	4.2	3.7	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 loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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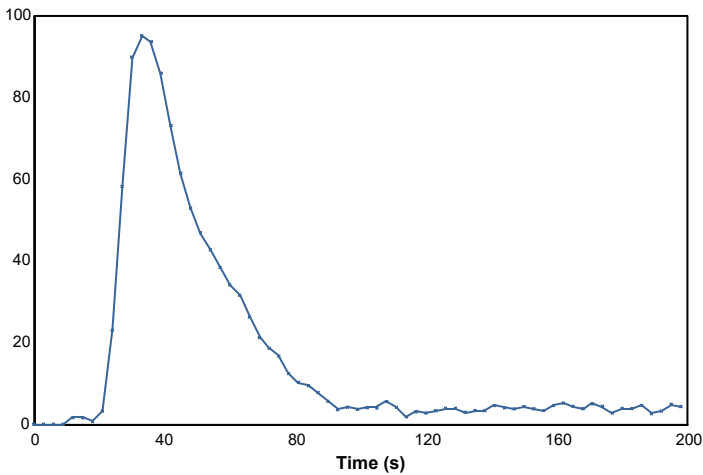
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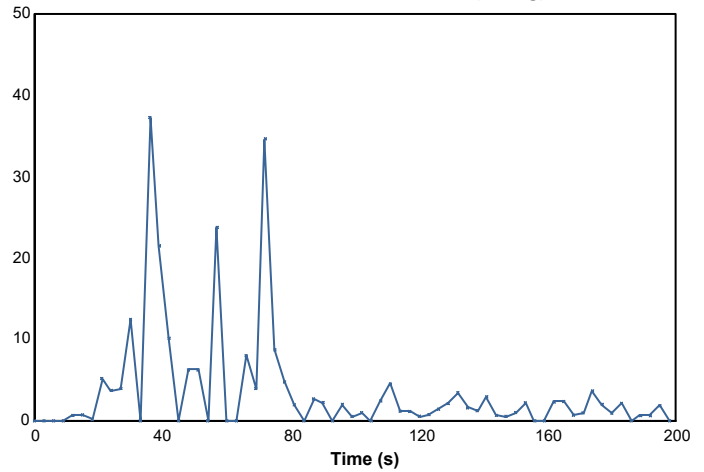
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Specimen : 1

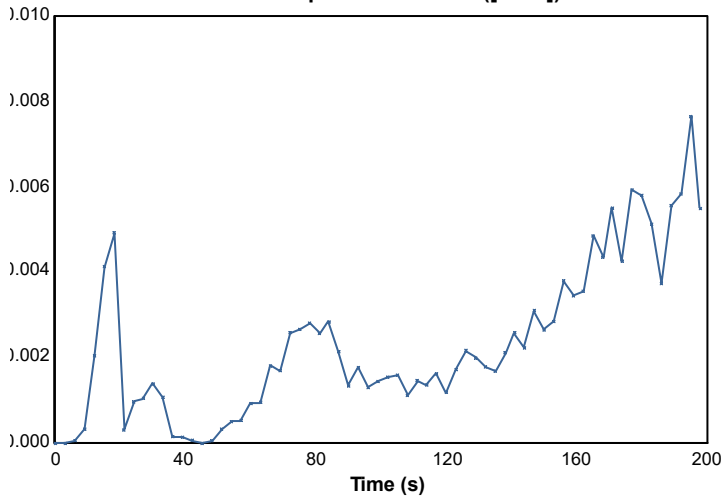
Heat release rate (kW/m²)



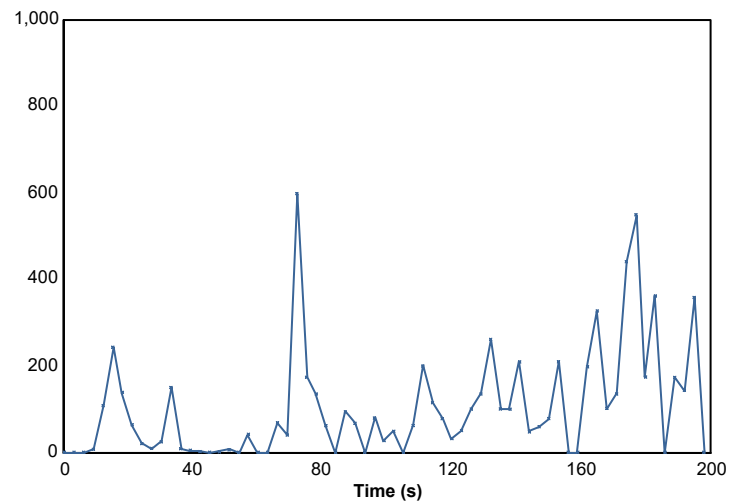
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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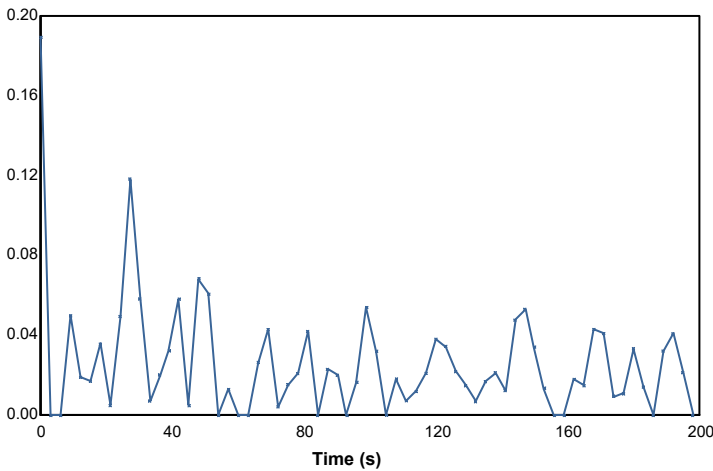
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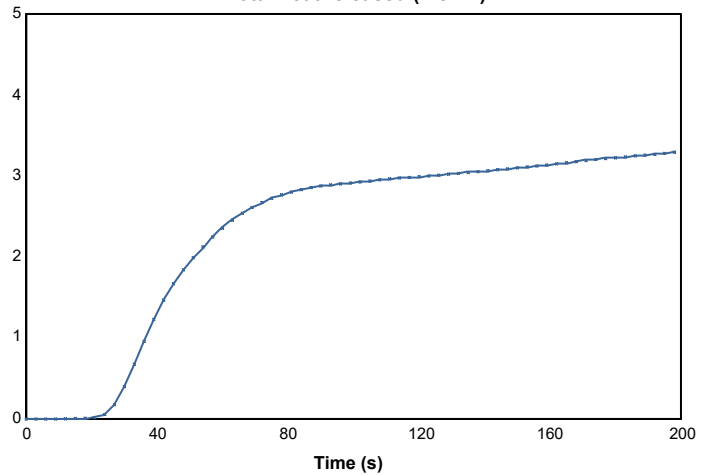
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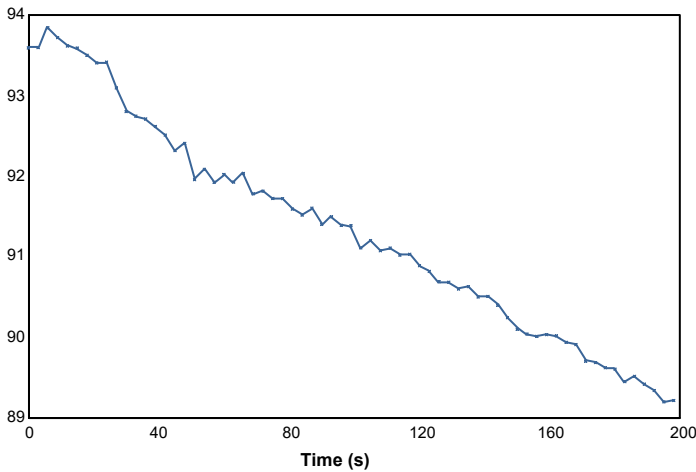
Mass loss rate (g/s)



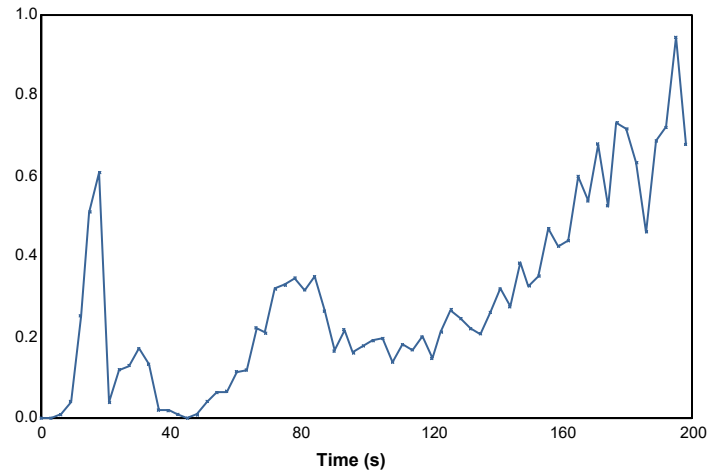
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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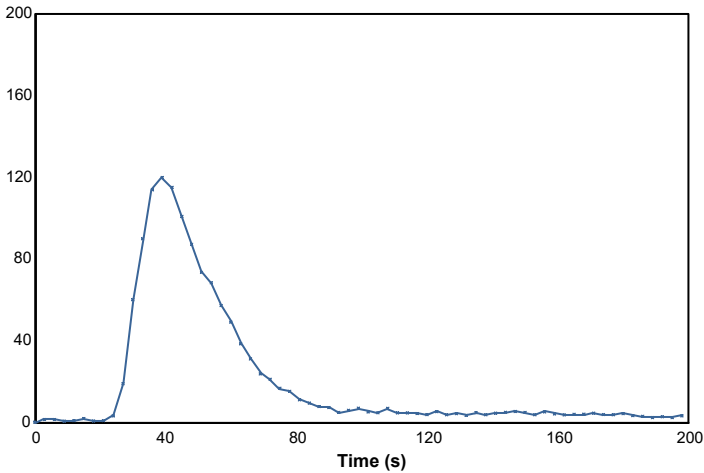
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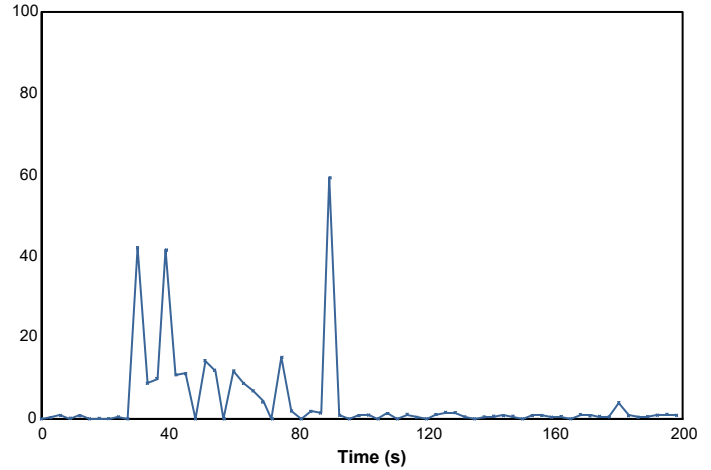
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Specimen : 2

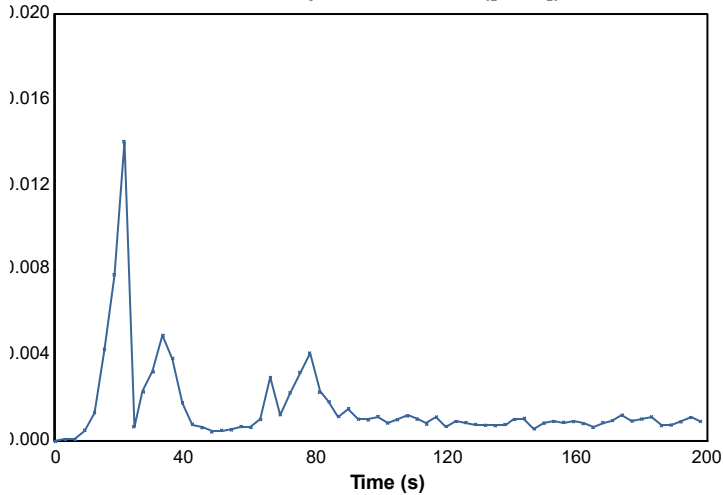
Heat release rate (kW/m²)



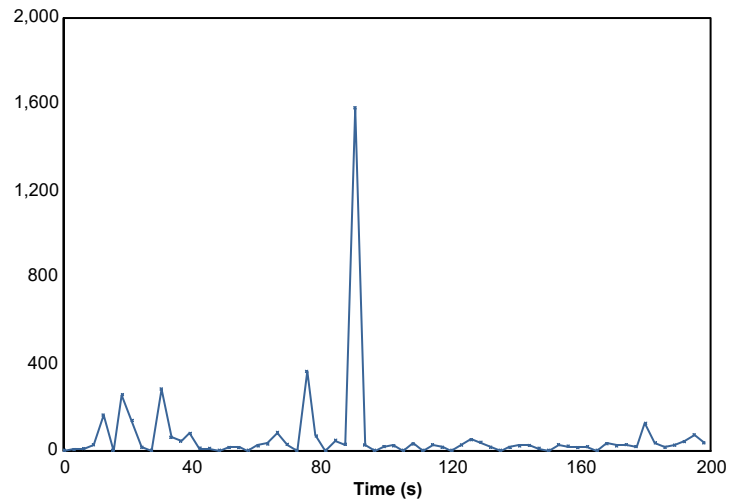
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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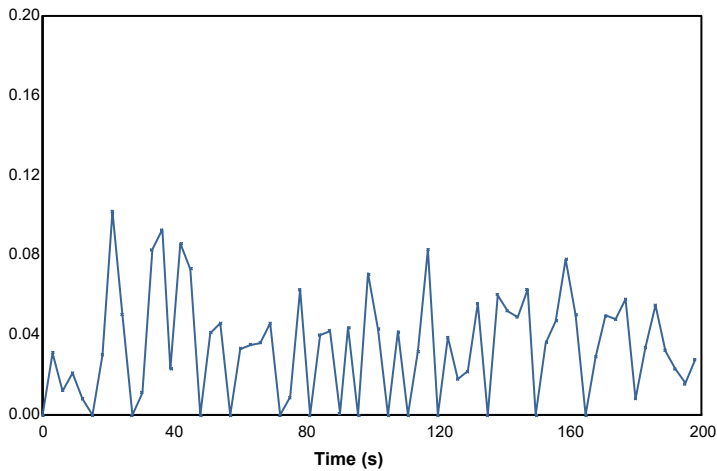
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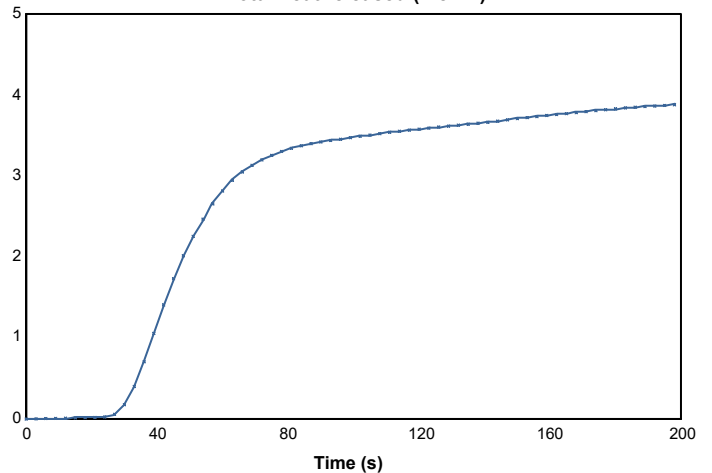
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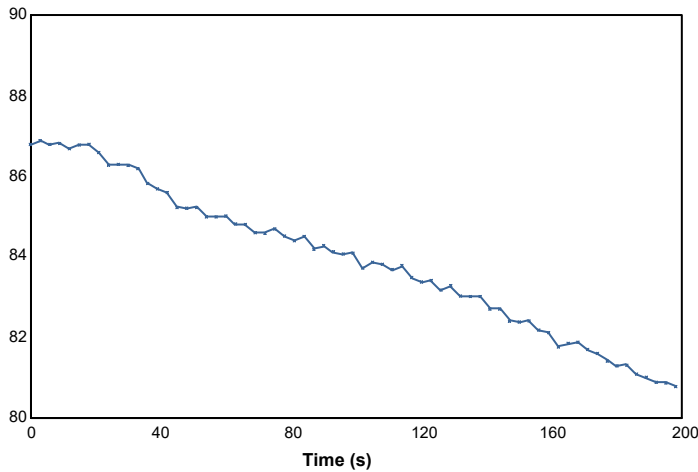
Mass loss rate (g/s)



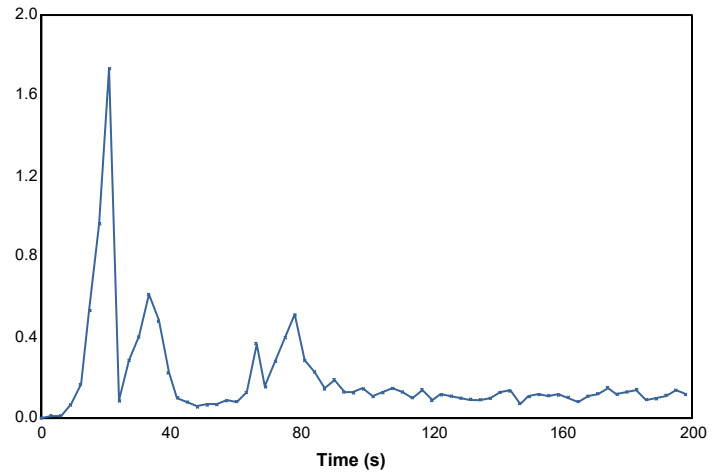
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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