

# 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 :** Warwick Fabrics Aust Pty Ltd  
6-10 Sackville Street  
Collingwood VIC 3066

**Test Number :** 19-006323  
**Issue Date :** 11/12/2019  
**Print Date :** 11/12/2019

**Sample Description** Clients Ref : "Eastwood- Luciana Wallis"  
Embossed knitted fabric with felt scrim  
Colour : Bison  
End Use : Upholstery  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 400g/m<sup>2</sup>  
Nominal Thickness : 2mm

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

Date Tested 11/12/2019  
Operator AWTA Test Operator 2  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	43.5	44.7	41.2	43.1	kW/m <sup>2</sup>
Average Specific extinction area	134.1	110.7	108.8	117.9	m <sup>2</sup> /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 <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	109	128	124	120	sec
Test duration	359	367	374	367	sec
Peak heat release after ignition	147.7	123.6	116.3	129.2	kW/m <sup>2</sup>
Average heat at 60 s	100.6	99.1	82.5	94.1	kW/m <sup>2</sup>

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APPROVED SIGNATORY

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

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Average heat at 180 s	53.0	52.7	49.3	51.6	kW/m <sup>2</sup>
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>
Total heat released	10.8	10.7	10.2	10.6	MJ/m <sup>2</sup>
Average effective heat of combustion	8.1	7.5	7.0	7.6	MJ/kg
Initial thickness	8	8	8	8.0	mm
Initial mass	85.5	87.5	83.6	85.5	g
Mass at sustained flaming	82.8	83.2	79.4	81.8	g
Mass remaining	74.6	75.9	71.5	74.0	g
Mass percentage pyrolysed	12.7	13.3	14.5	13.5	%
Mass loss	1.3	1.4	1.5	1.4	kg/m <sup>2</sup>
Average rate of mass loss	5.4	5.9	5.9	5.7	g/m <sup>2</sup> .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.

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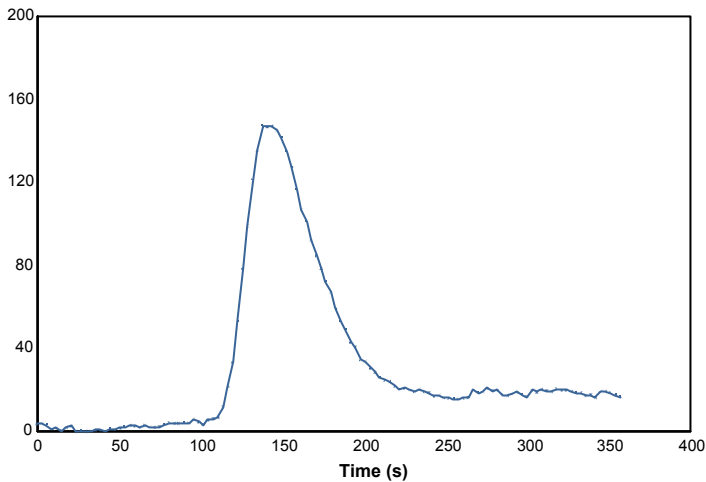
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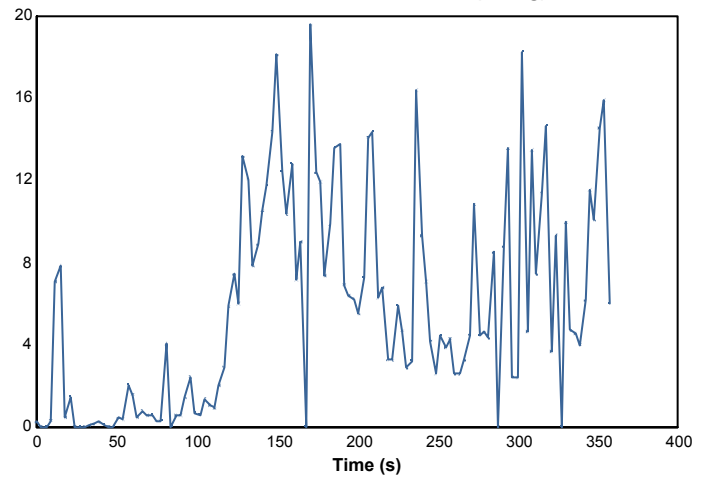
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**Issue Date :** 11/12/2019  
**Print Date :** 11/12/2019

**Specimen :** 1

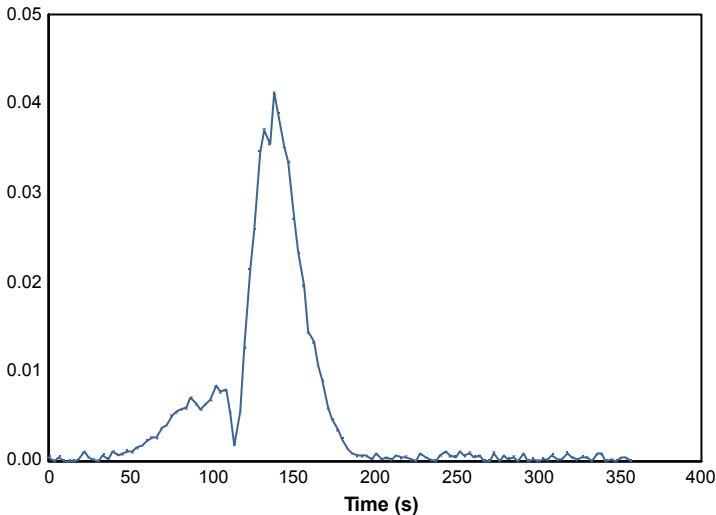
Heat release rate (kW/m<sup>2</sup>)



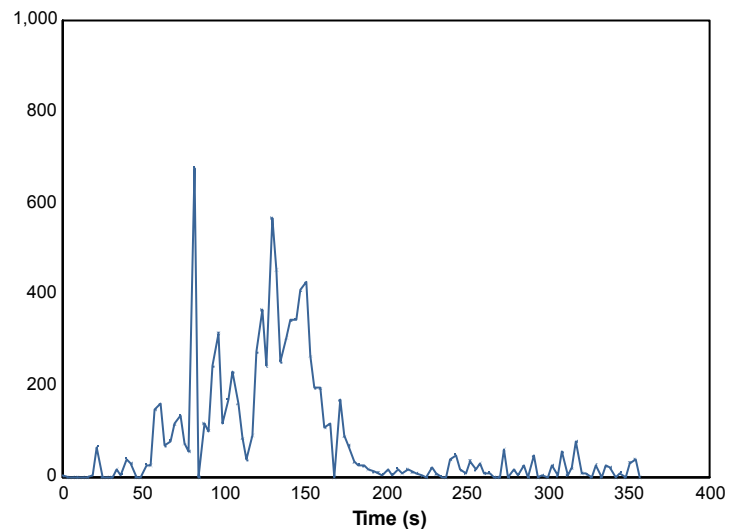
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m<sup>2</sup>/s)



Specific extinction area (m<sup>2</sup>/kg)



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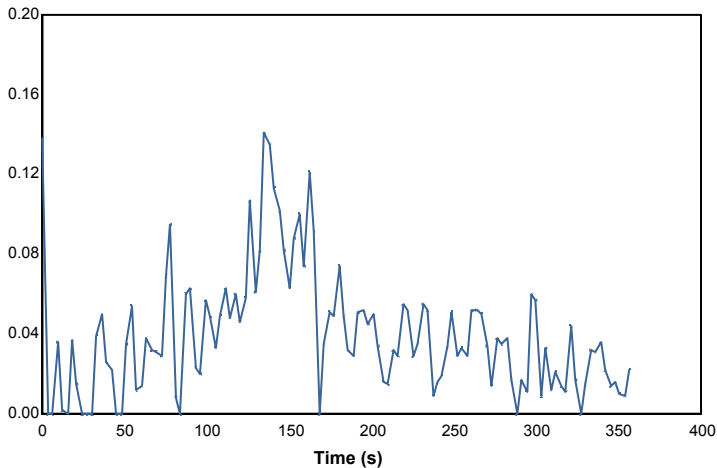
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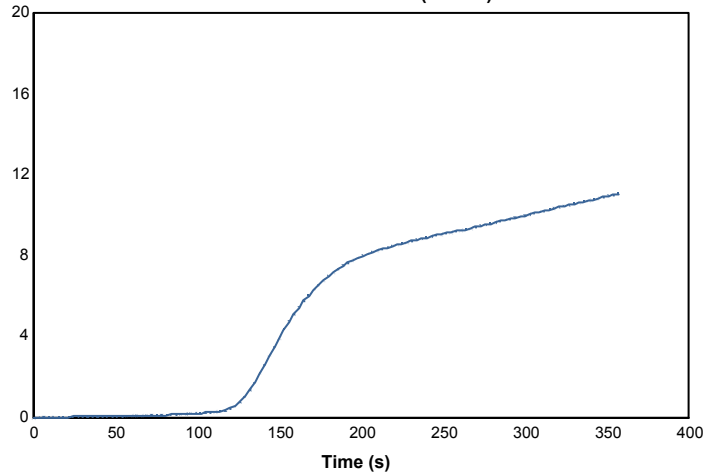
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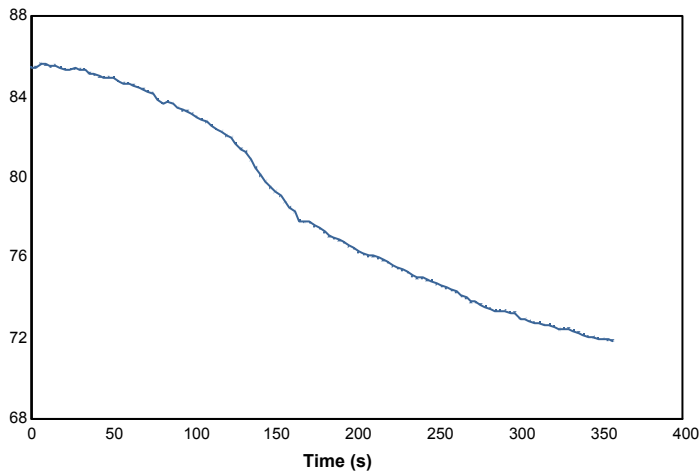
Mass loss rate (g/s)



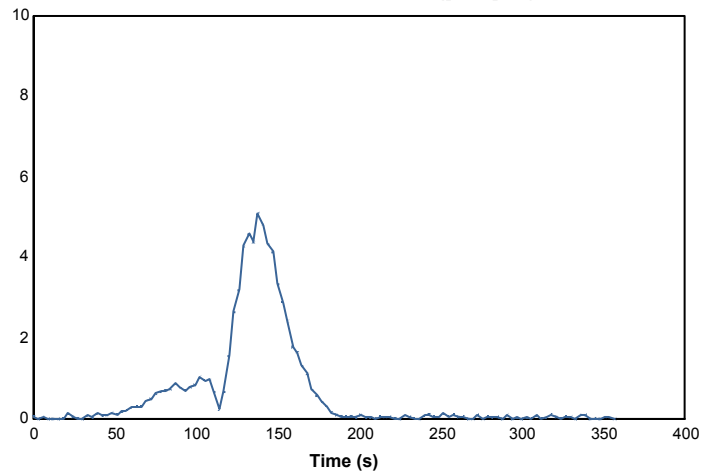
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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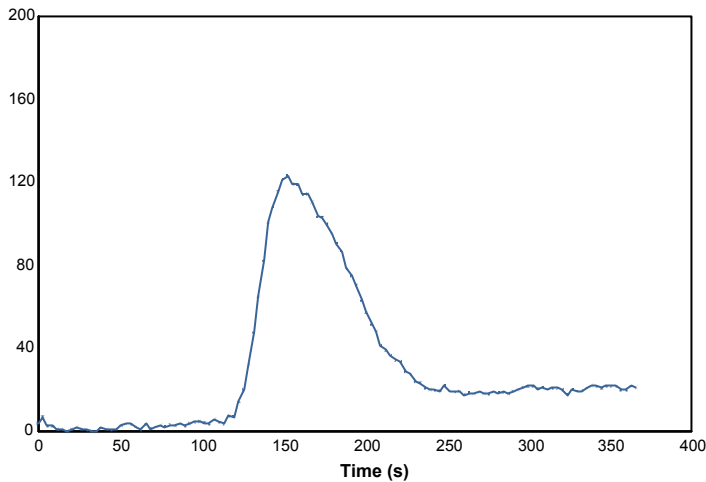
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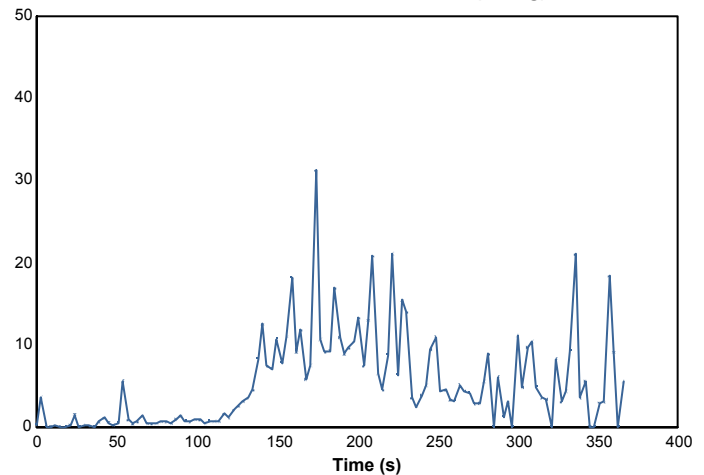
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**Specimen :** 2

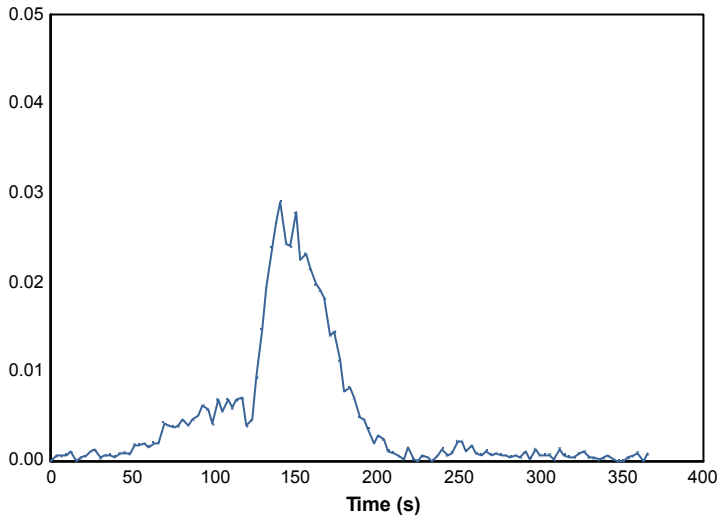
Heat release rate (kW/m<sup>2</sup>)



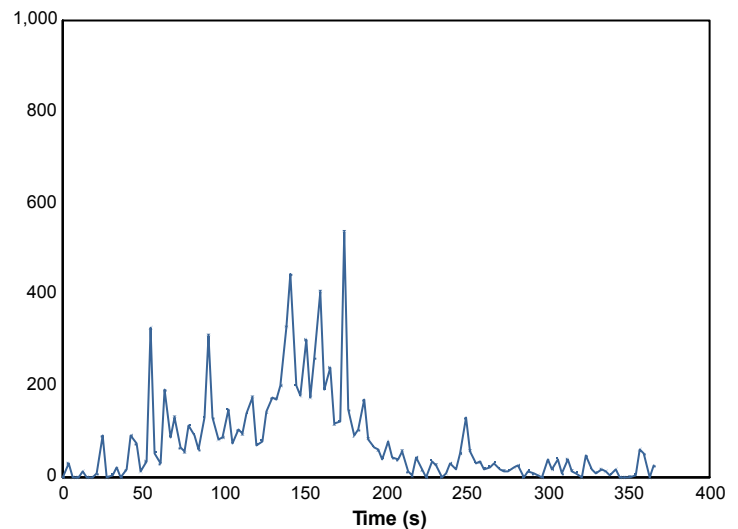
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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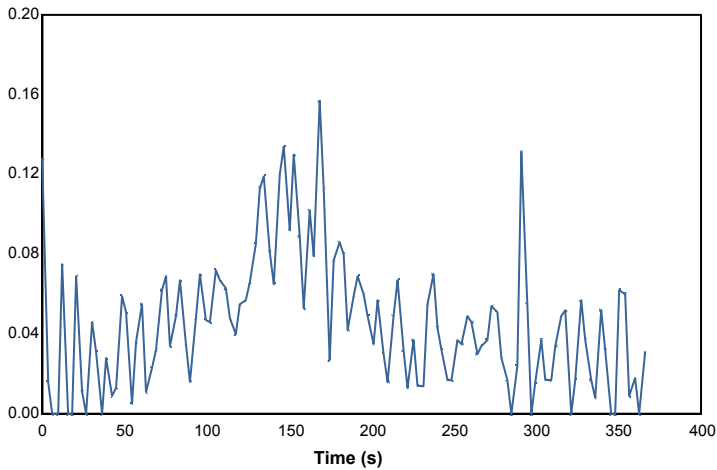
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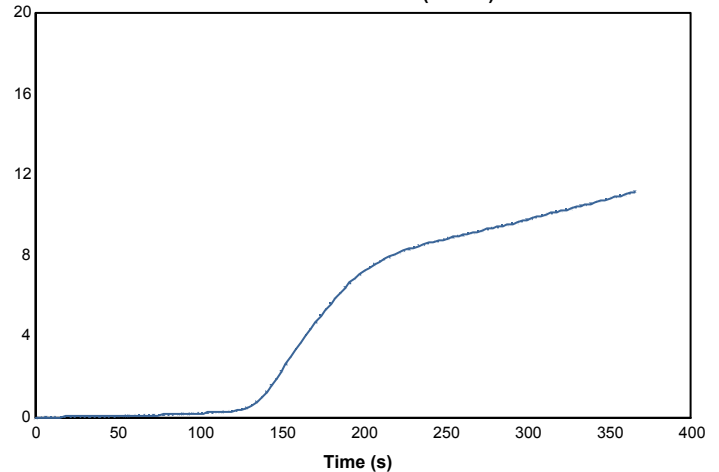
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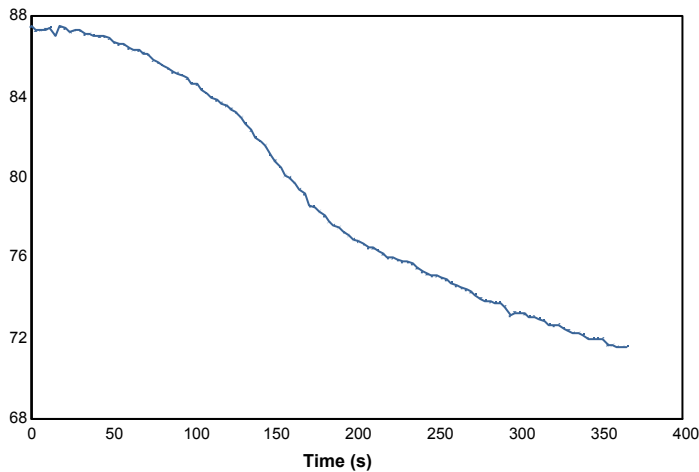
Mass loss rate (g/s)



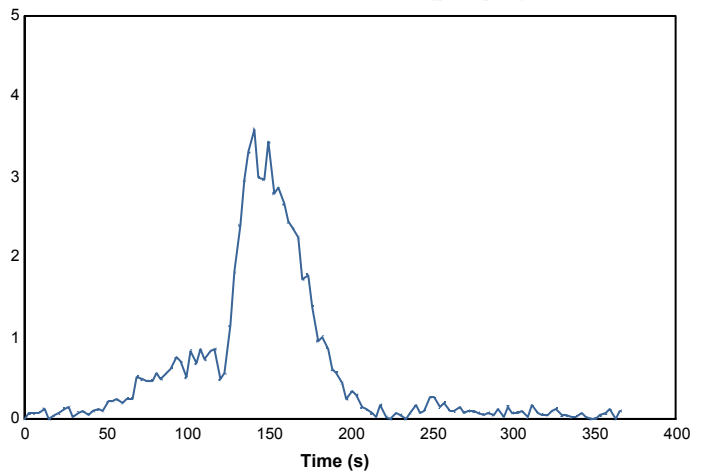
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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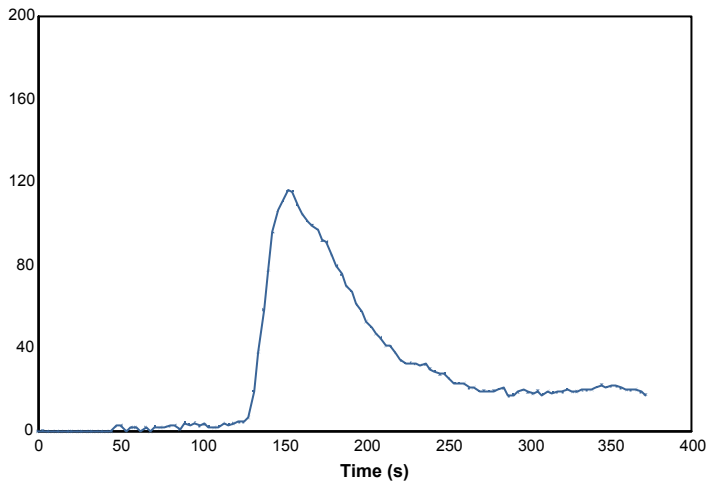
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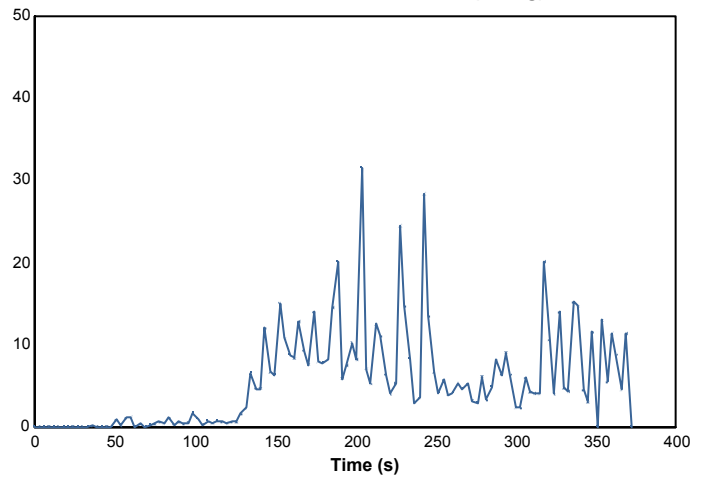
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**Specimen :** 3

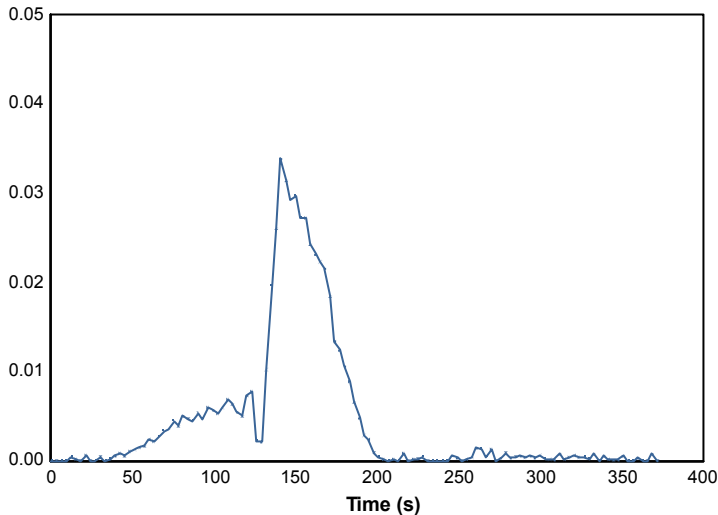
Heat release rate (kW/m<sup>2</sup>)



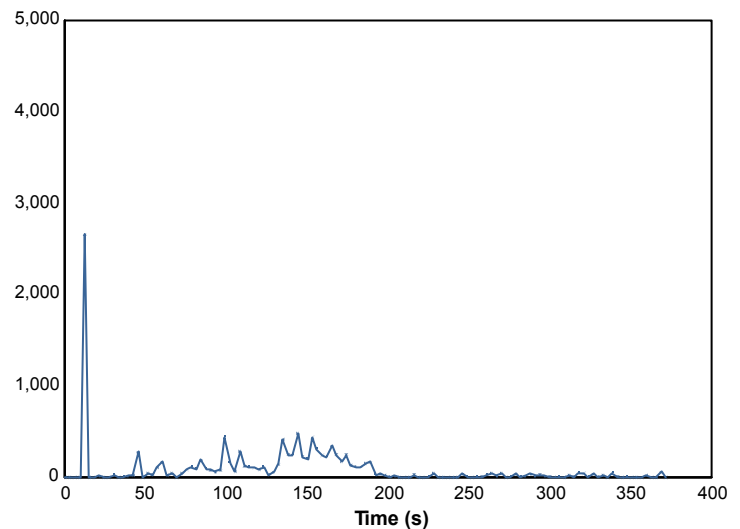
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m<sup>2</sup>/s)



Specific extinction area (m<sup>2</sup>/kg)



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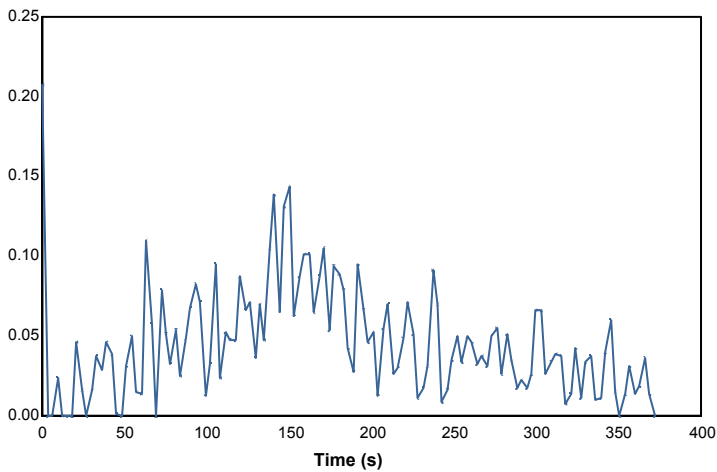
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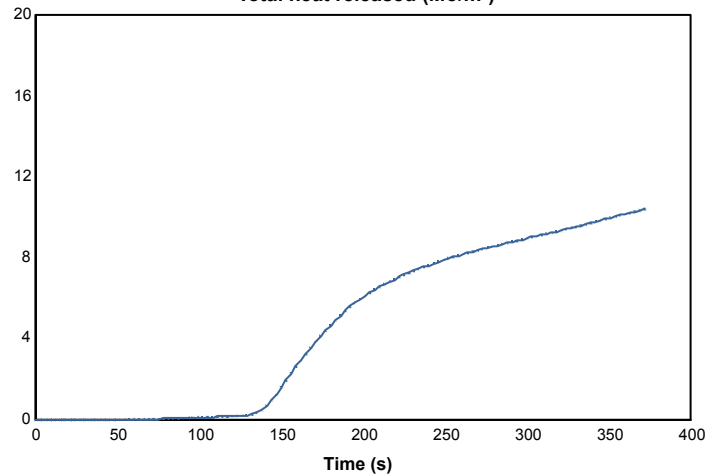
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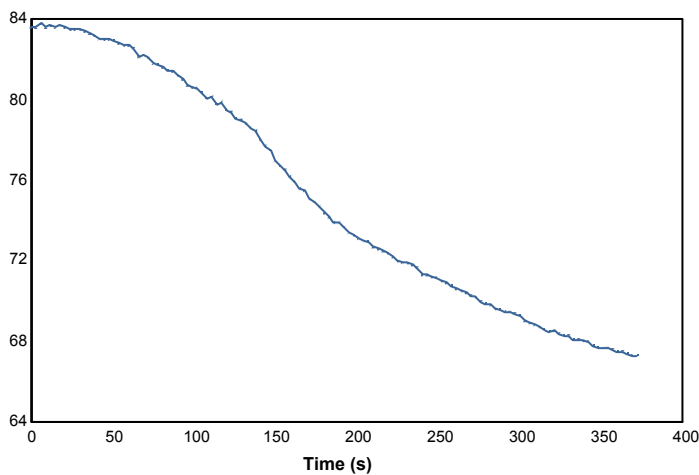
Mass loss rate (g/s)



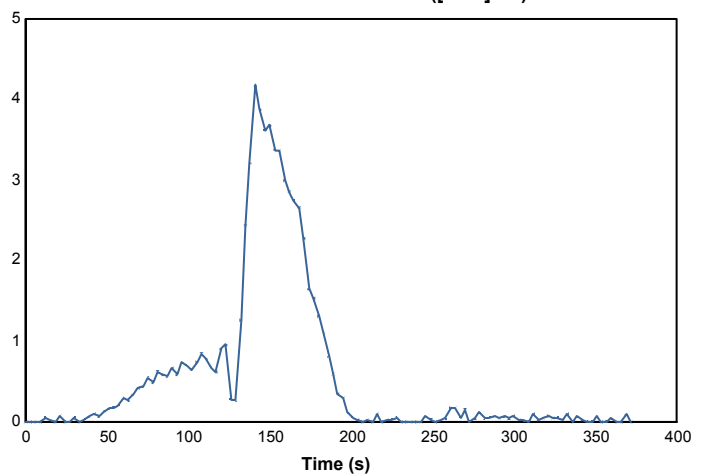
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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