

# 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 :** 18-006874  
**Issue Date :** 10/12/2018  
**Print Date :** 26/07/2019  
**Order Number :** 028882-1

**Sample Description** Clients Ref : "123 Earth Screen"  
Woven coated fabric  
Colour : Black  
End Use : Roller Blinds  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 250+/-5%  
Nominal Thickness : 0.40mm+/-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 11/12/2018  
Operator AWTA Test Operator 3  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	20.9	19.5	23.7	21.3	kW/m <sup>2</sup>
Average Specific extinction area	187.1	220.8	242.3	216.7	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	47	60	51	53	sec
Test duration	330	320	302	317	sec
Peak heat release after ignition	127.2	114.3	165.3	135.6	kW/m <sup>2</sup>
Average heat at 60 s	48.2	36.4	57.6	47.4	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	27.0	24.1	26.9	26.0	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	5.9	5.1	5.9	5.6	MJ/m <sup>2</sup>
Average effective heat of combustion	20.5	18.8	20.0	19.7	MJ/kg
Initial thickness	1	1	1	1.0	mm
Initial mass	2.6	2.5	2.8	2.6	g
Mass at sustained flaming	2.4	2.3	2.6	2.4	g
Mass remaining	0.1	0.4	0.4	0.3	g
Mass percentage pyrolysed	95.6	84.5	85.9	88.7	%
Mass loss	0.3	0.3	0.3	0.3	kg/m <sup>2</sup>
Average rate of mass loss	1.2	1.3	1.2	1.3	g/m <sup>2</sup> .s

**Additional Observations** Melting observed before ignition

**Difficulties Encountered during Testing** n/a

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 12mm spacer.

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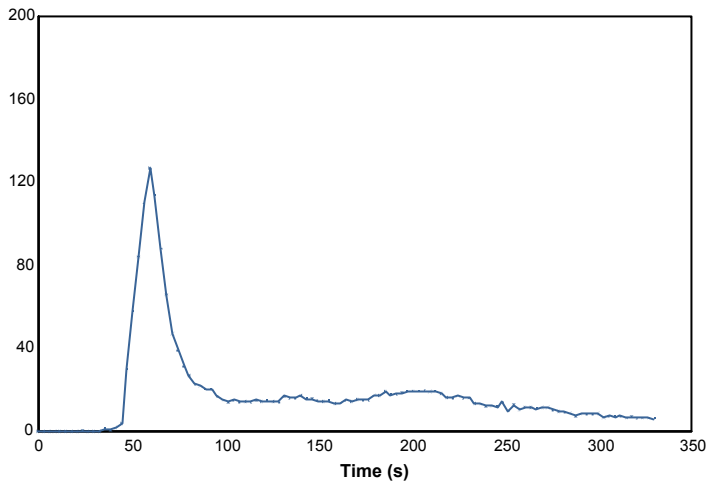
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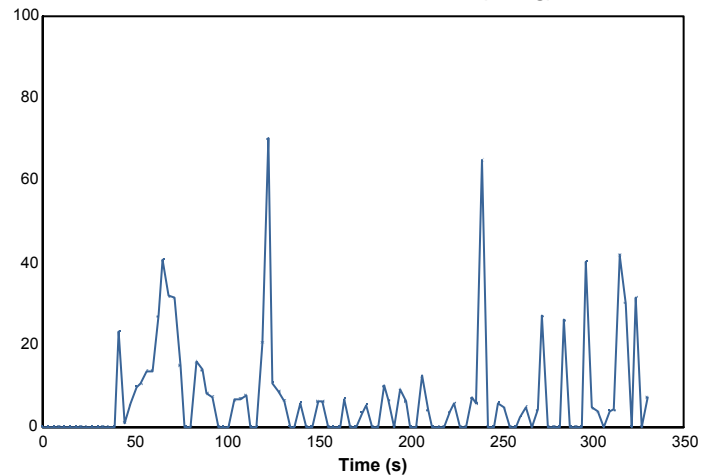
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**Specimen :** 1

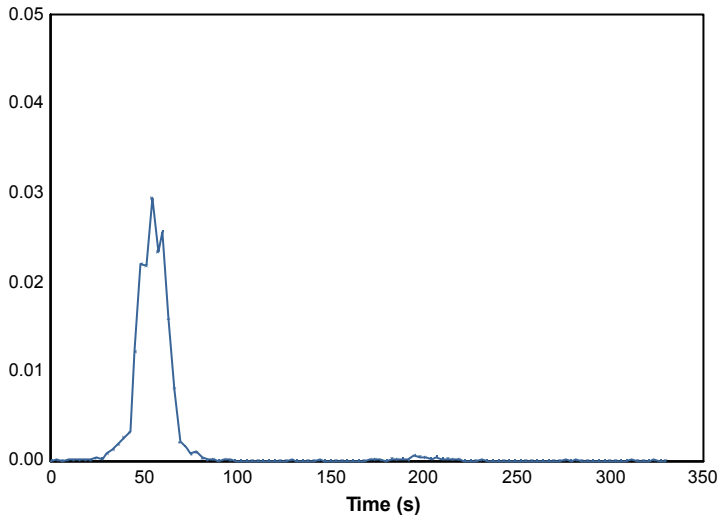
**Heat release rate (kW/m<sup>2</sup>)**



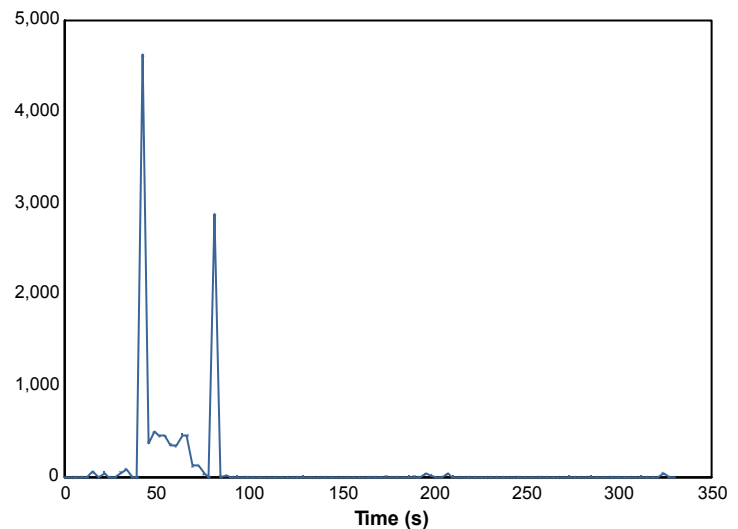
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



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



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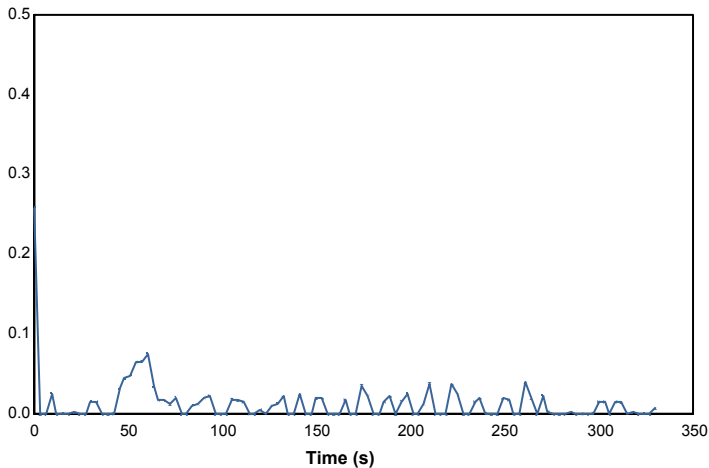
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## TEST REPORT

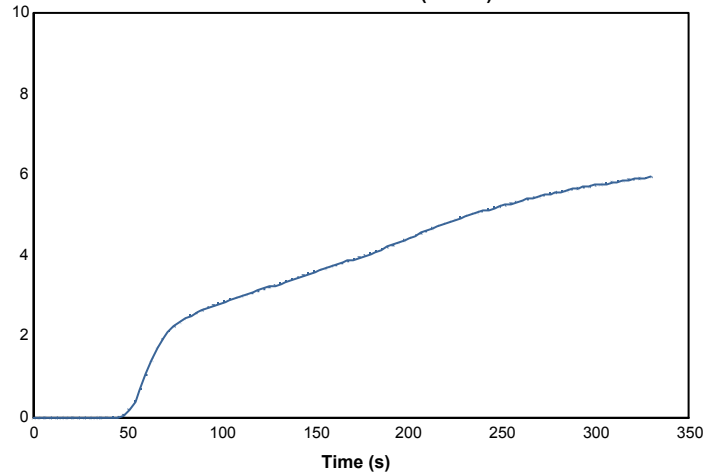
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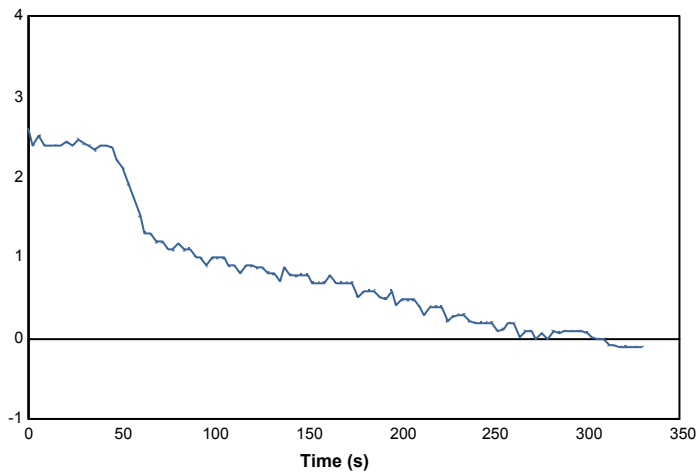
Mass loss rate (g/s)



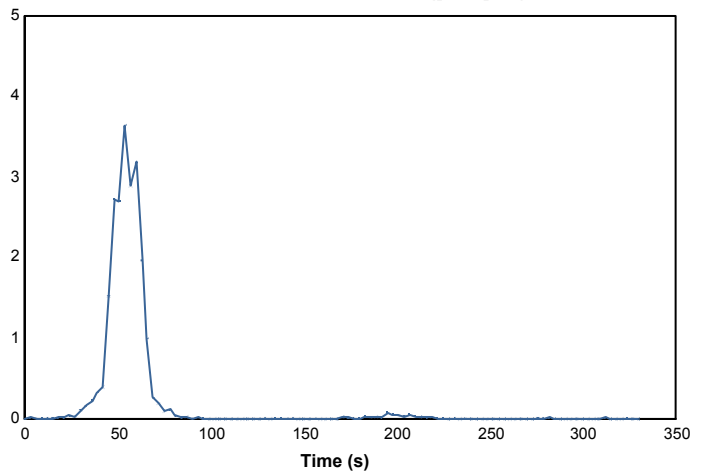
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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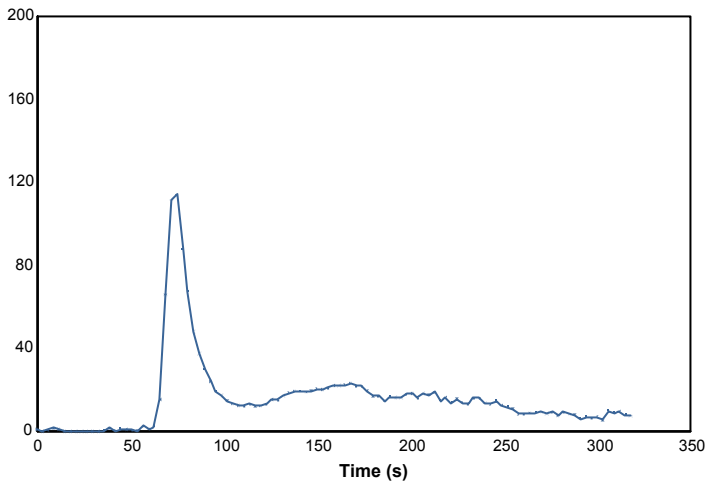
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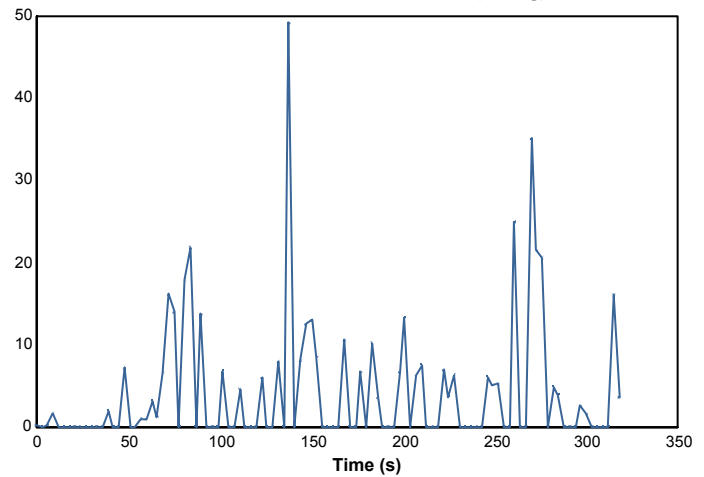
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**Specimen :** 2

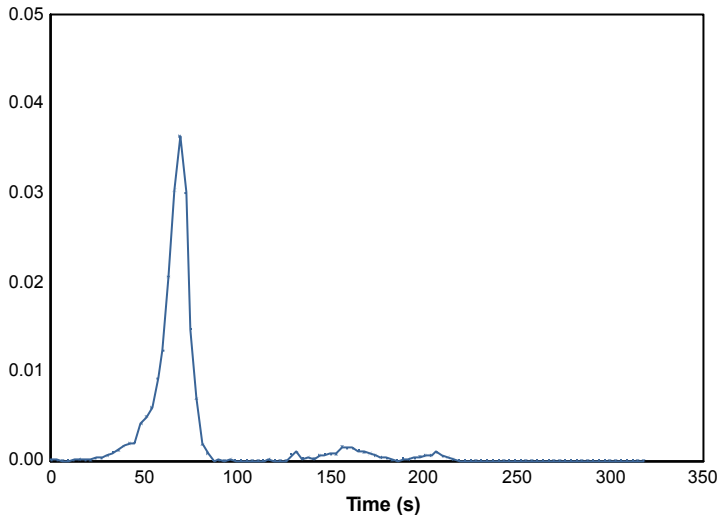
Heat release rate (kW/m<sup>2</sup>)



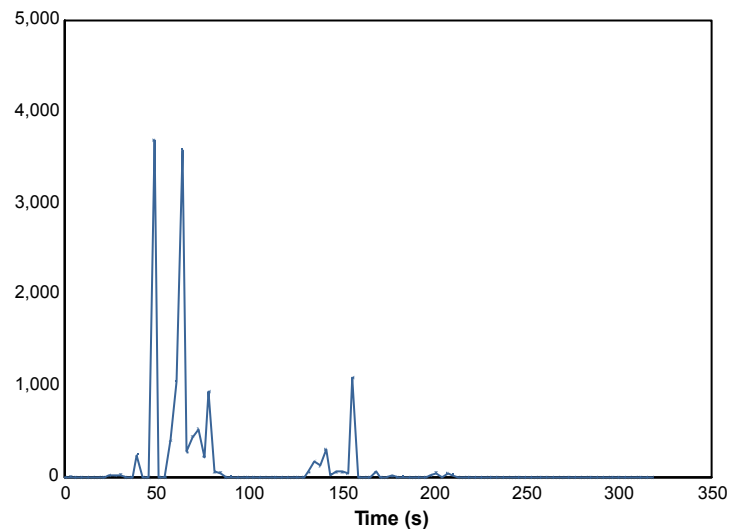
Effective heat of combustion (MJ/kg)



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



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



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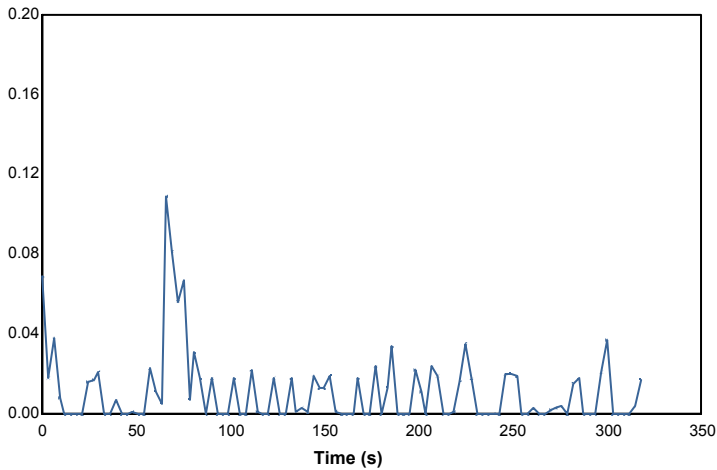
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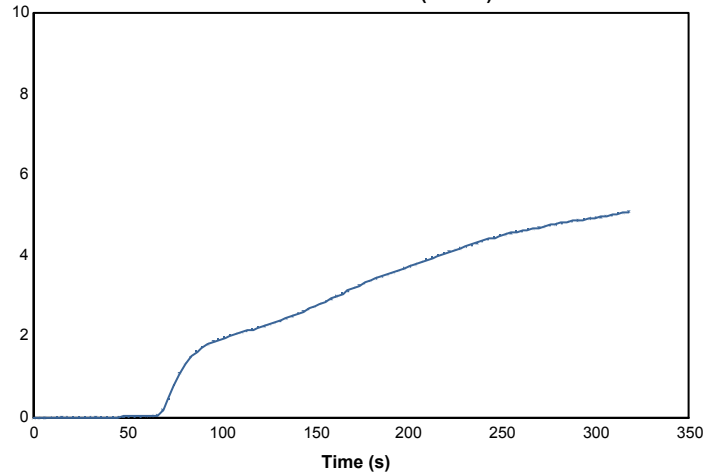
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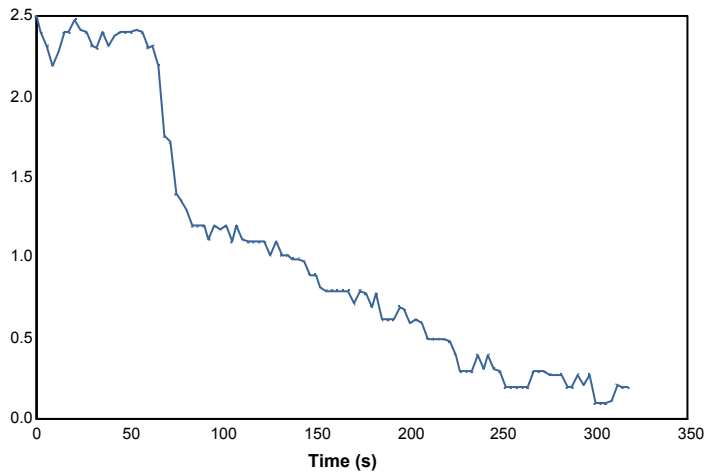
Mass loss rate (g/s)



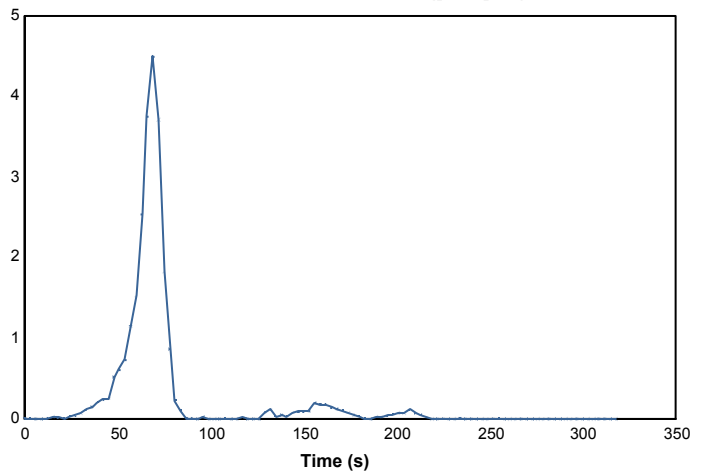
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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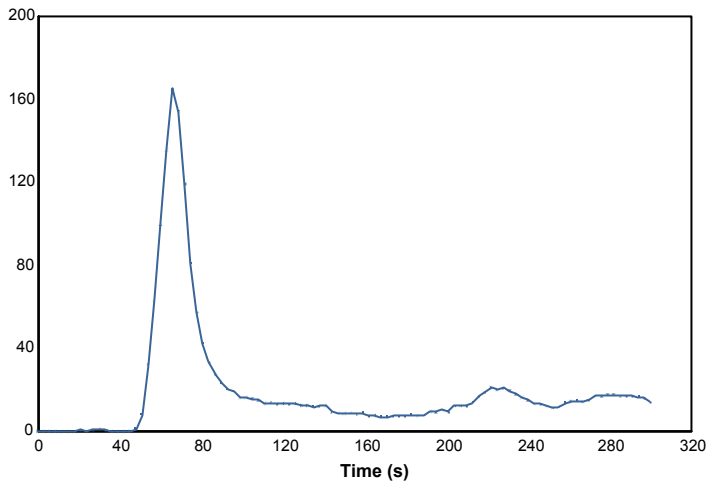
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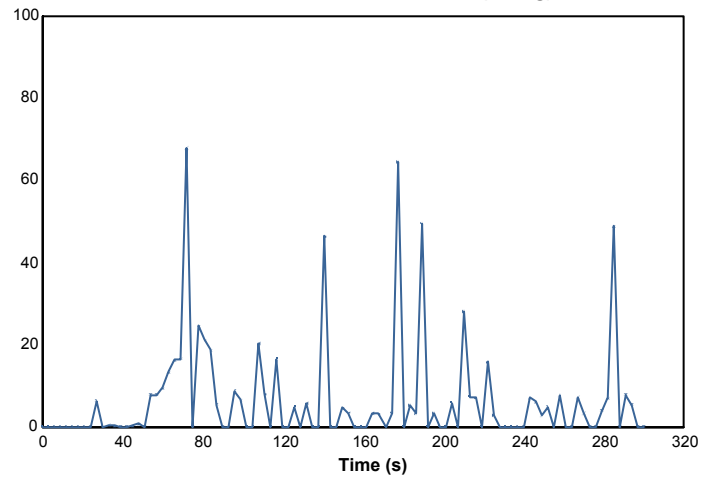
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**Specimen :** 3

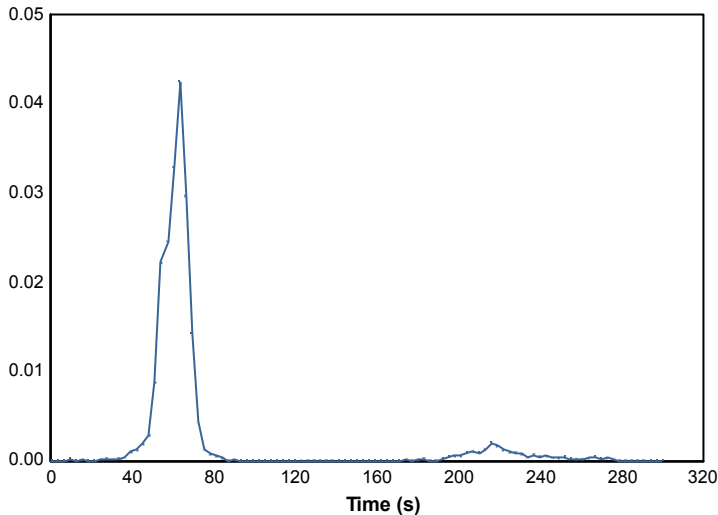
Heat release rate (kW/m<sup>2</sup>)



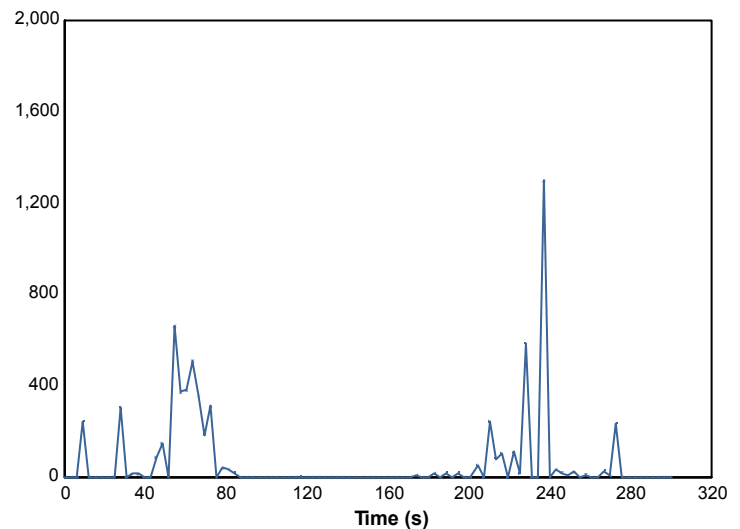
Effective heat of combustion (MJ/kg)



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



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



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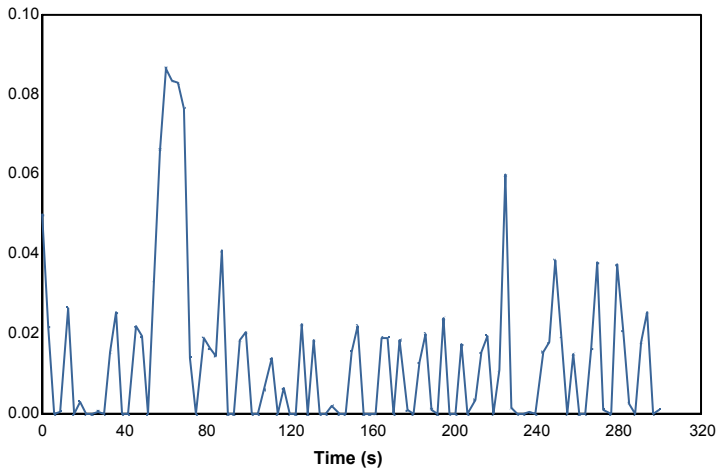
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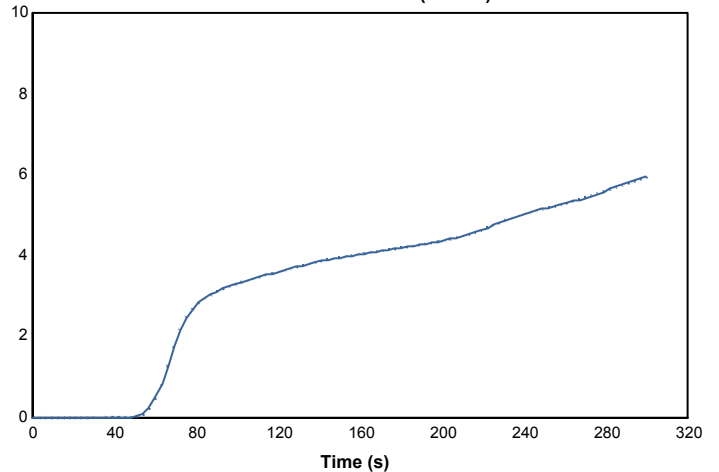
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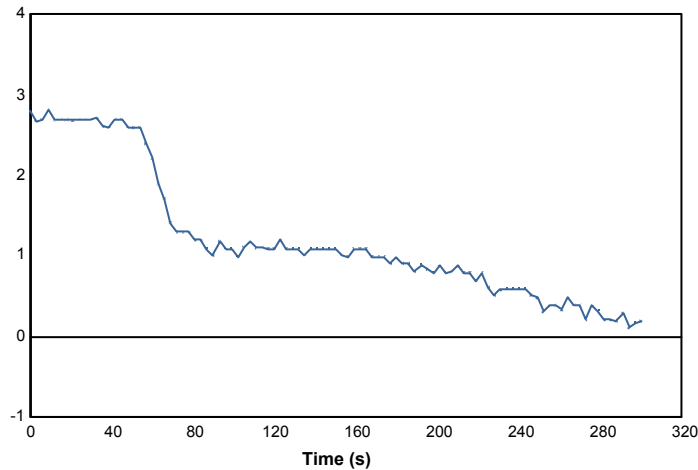
Mass loss rate (g/s)



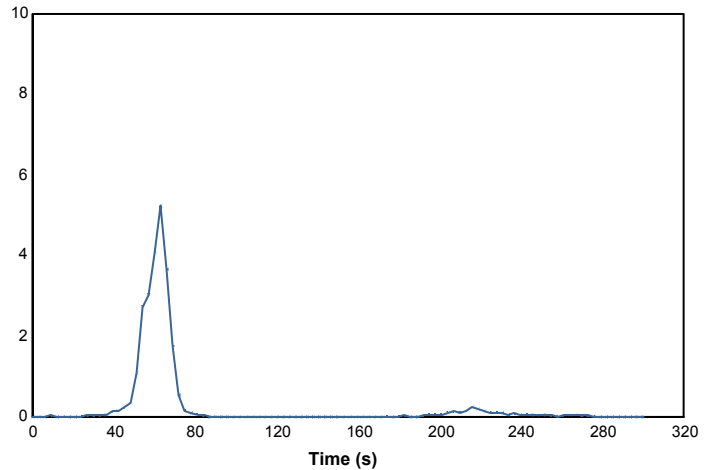
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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