

# 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 :** Orafol Australia  
8 Blanck Street  
Ormeau QLD 4208

**Test Number :** 21-005921  
**Issue Date :** 08/12/2021  
**Print Date :** 8/12/2021

### Sample Description

Clients Ref : "Oraguard 236" Flexible self-adhesive film  
Composition: Polypropylene, Thickness: 0.060mm, Mass: Approx 70g/m2  
Colour : Clear  
End Use : Wallcovering



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Fiona McDonald

APPROVED SIGNATORY

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

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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 08-12-2021  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	32.5	31.1	31.5	31.7	kW/m <sup>2</sup>
Average Specific extinction area	27.8	31.0	31.8	30.2	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	29	27	30	29	sec
Test duration	210	208	211	210	sec
Peak heat release after ignition	102.3	100.7	102.1	101.7	kW/m <sup>2</sup>
Average heat at 60 s	65.8	62.3	65.6	64.6	kW/m <sup>2</sup>
Average heat at 180 s	32.5	31.5	31.9	32.0	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	5.7	5.7	5.8	MJ/m <sup>2</sup>
Average effective heat of combustion	5.5	5.3	5.5	5.4	MJ/kg
Initial thickness	10.1	10.1	10.1	10.1	mm
Initial mass	65.9	64.9	64.5	65.1	g
Mass remaining	57.3	56.4	56.1	56.6	g
Mass percentage pyrolysed	13.0	13.1	13.0	13.0	%

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Mass loss	1.1	1.1	1.0	1.0	kg/m <sup>2</sup>
Average rate of mass loss	5.9	5.8	5.7	5.8	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.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder. Each specimen was self adhered to 10mm plasterboard prior to testing

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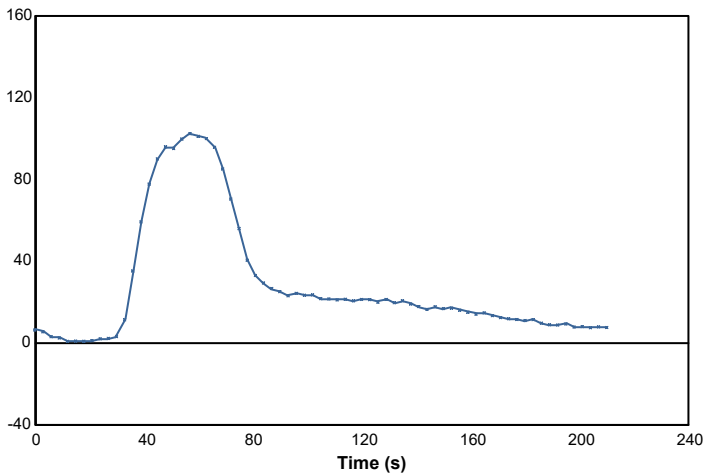
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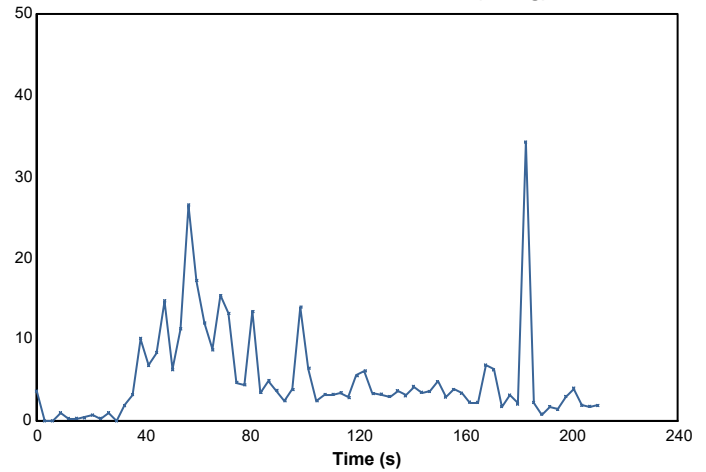
**Test Number :** 21-005921  
**Issue Date :** 08/12/2021  
**Print Date :** 8/12/2021

**Specimen :** 1

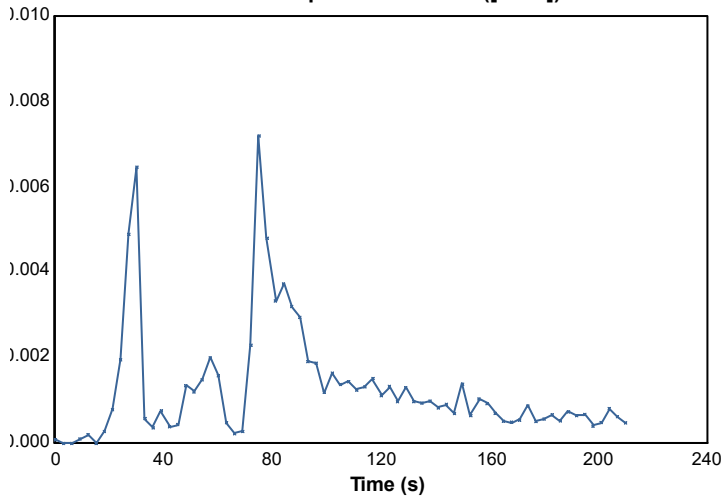
**Heat release rate (kW/m<sup>2</sup>)**



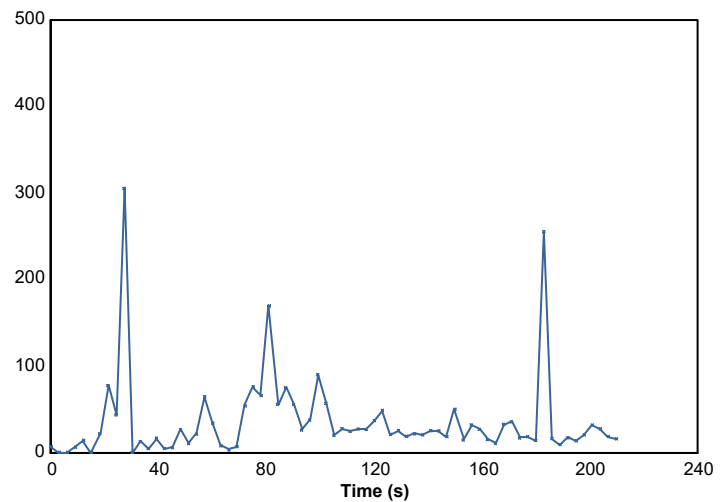
**Effective heat of combustion (MJ/kg)**



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



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



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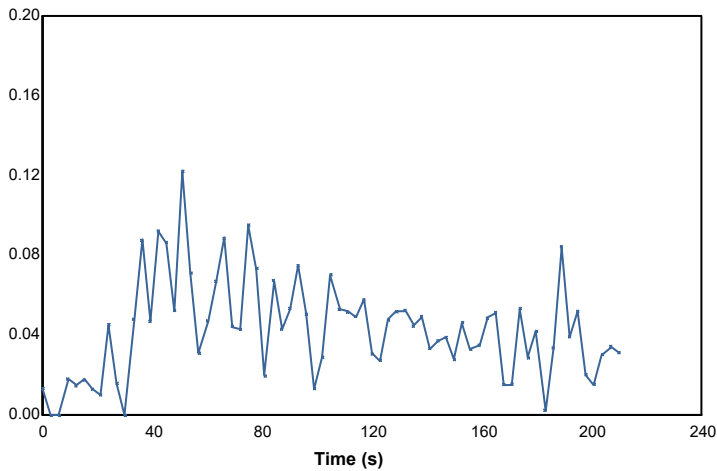
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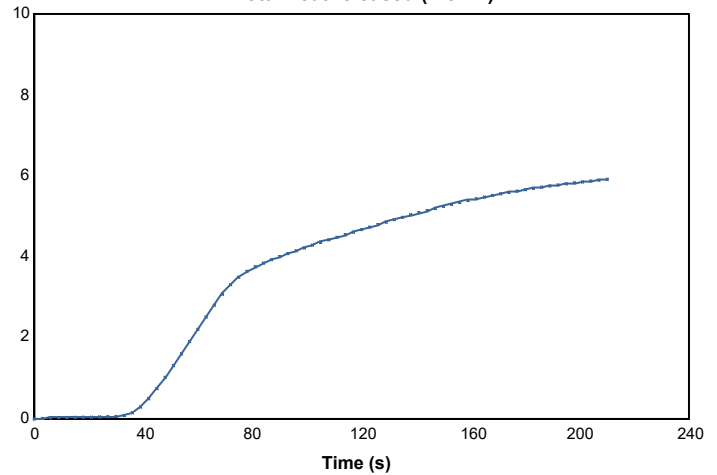
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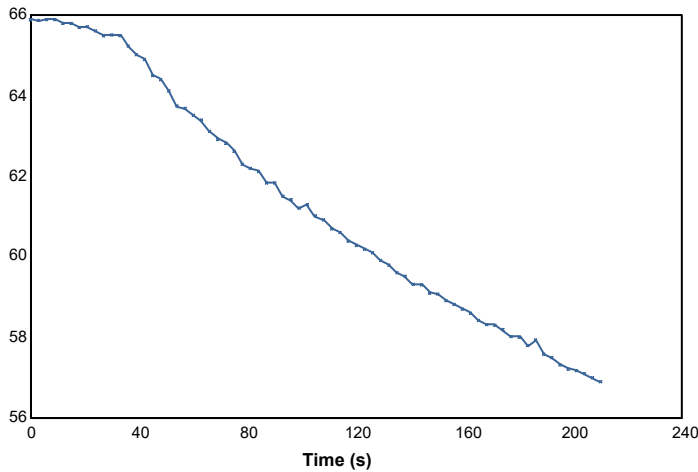
Mass loss rate (g/s)



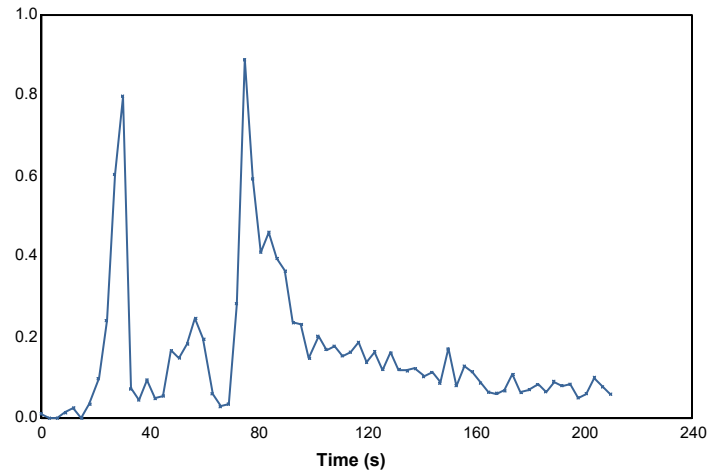
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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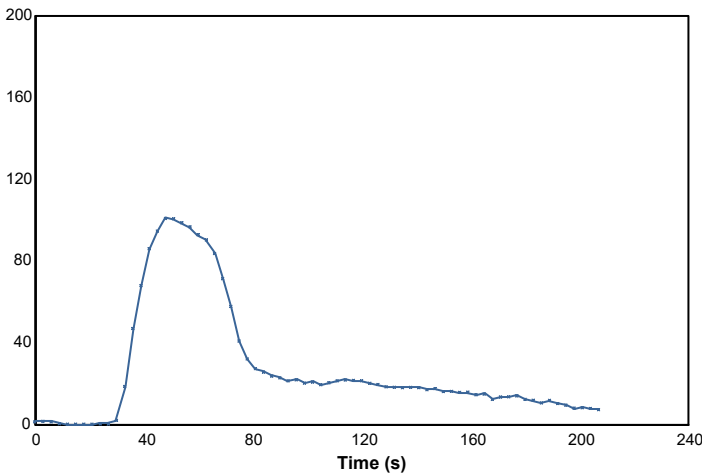
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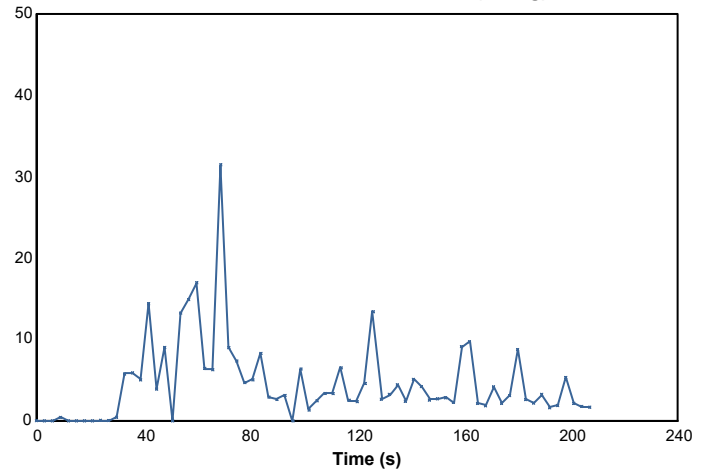
**Test Number :** 21-005921  
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**Specimen :** 2

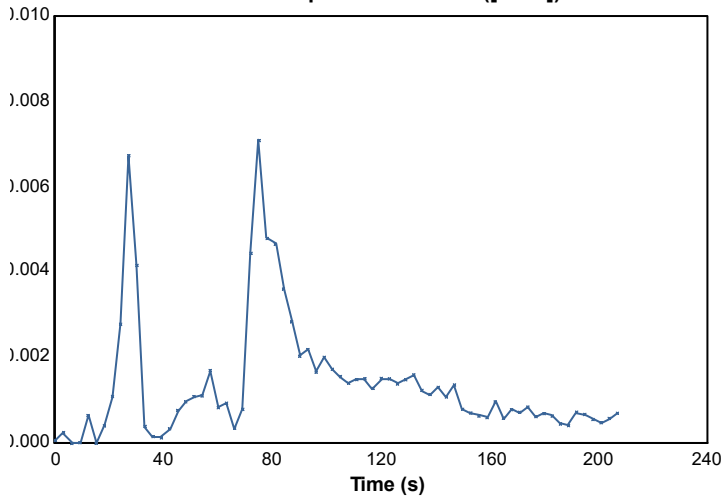
**Heat release rate (kW/m<sup>2</sup>)**



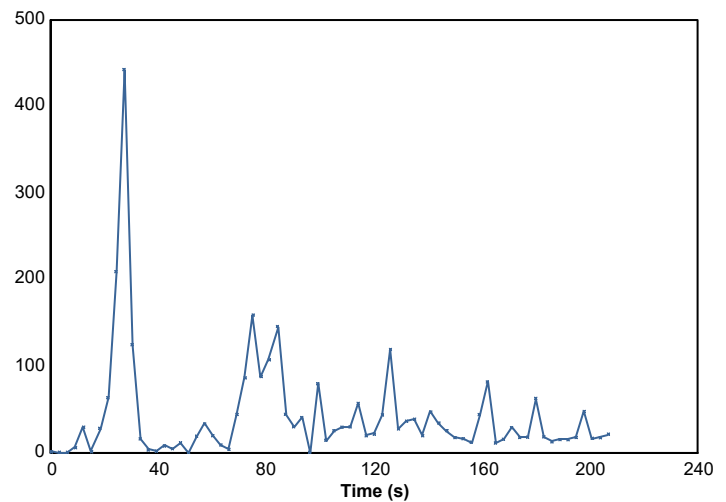
**Effective heat of combustion (MJ/kg)**



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



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



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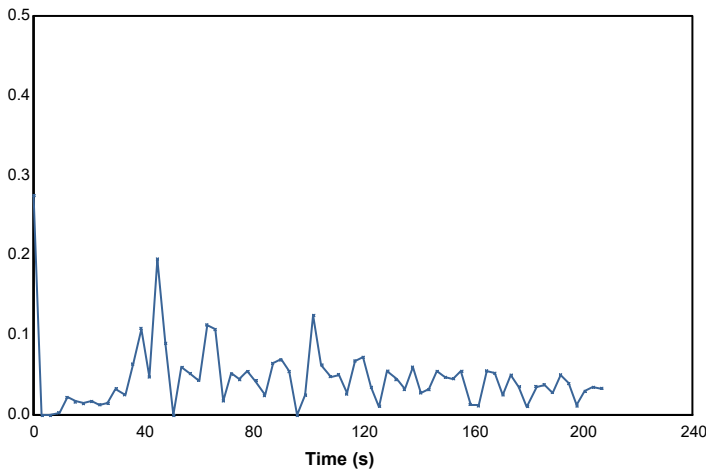
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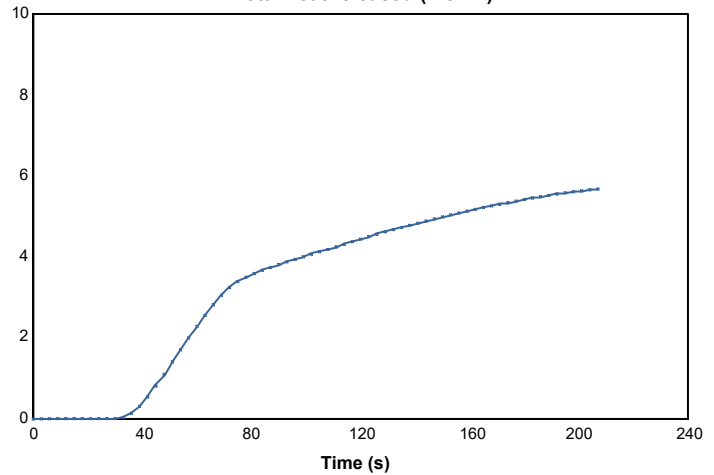
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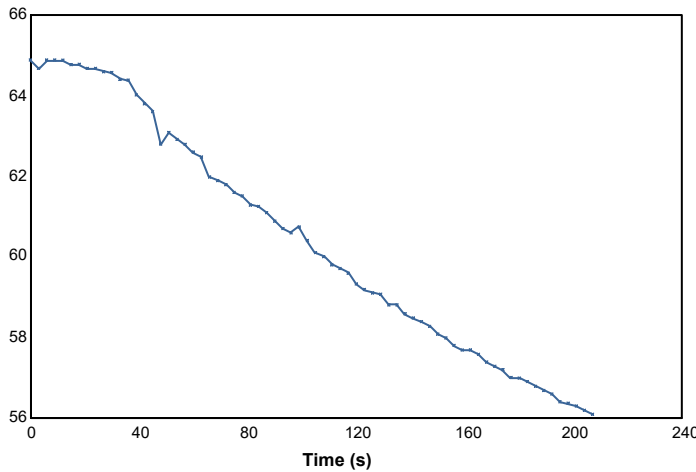
Mass loss rate (g/s)



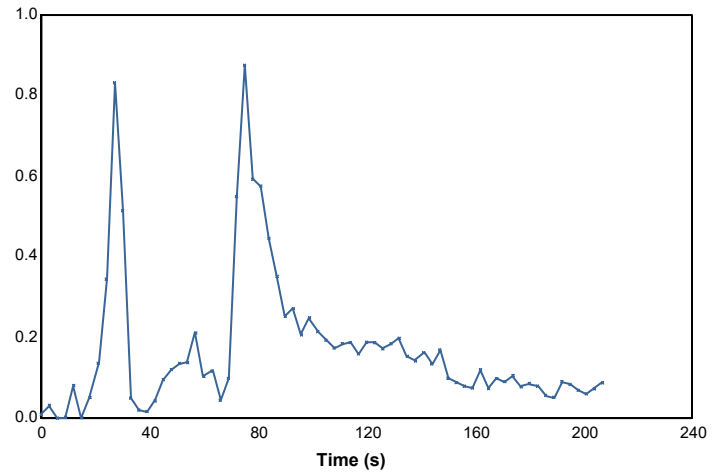
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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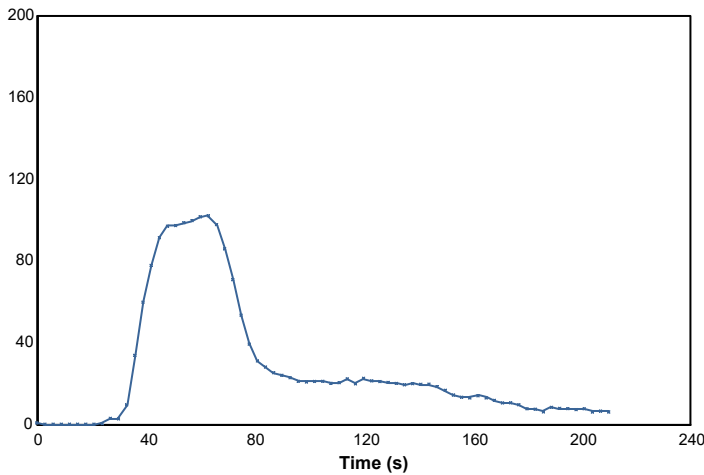
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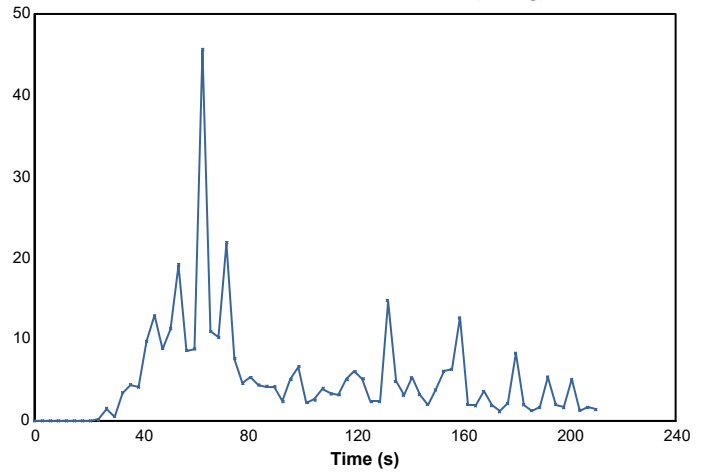
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**Specimen :** 3

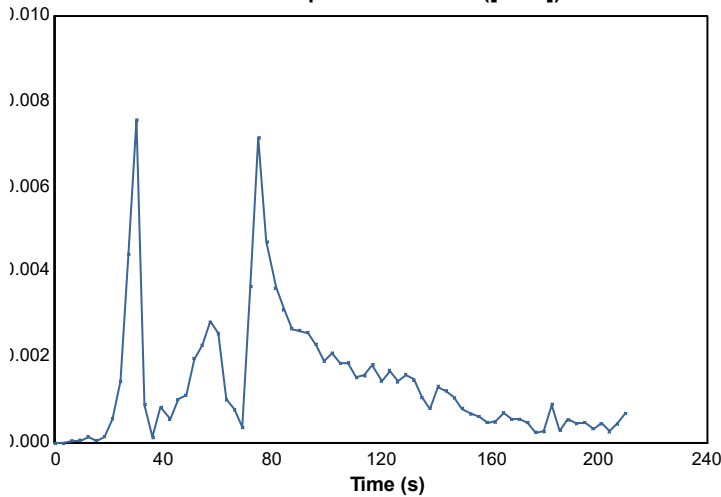
**Heat release rate (kW/m<sup>2</sup>)**



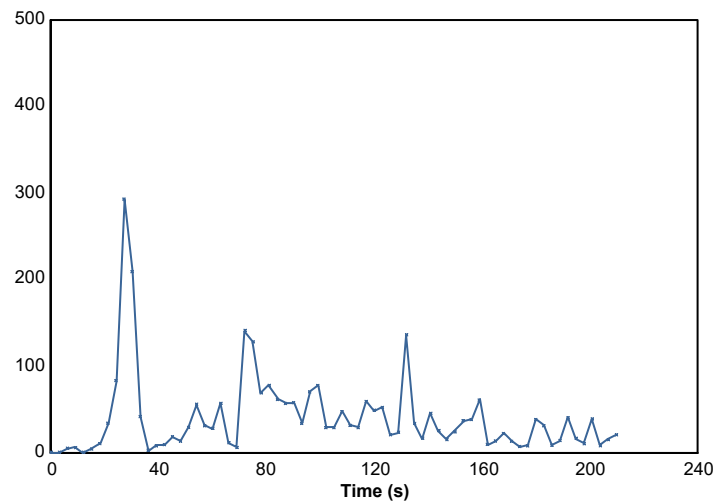
**Effective heat of combustion (MJ/kg)**



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



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



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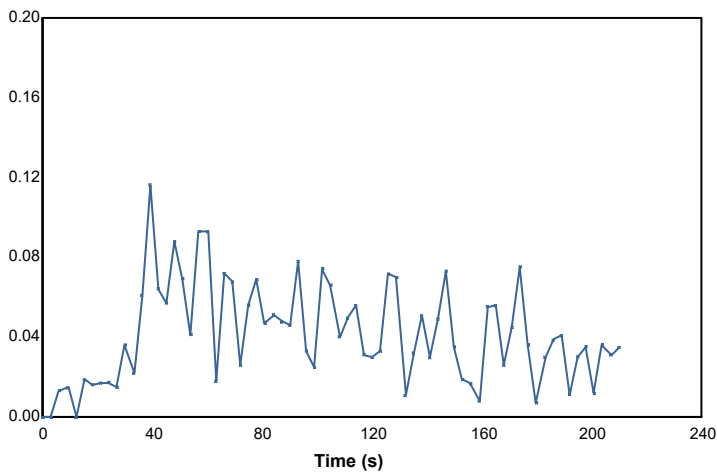
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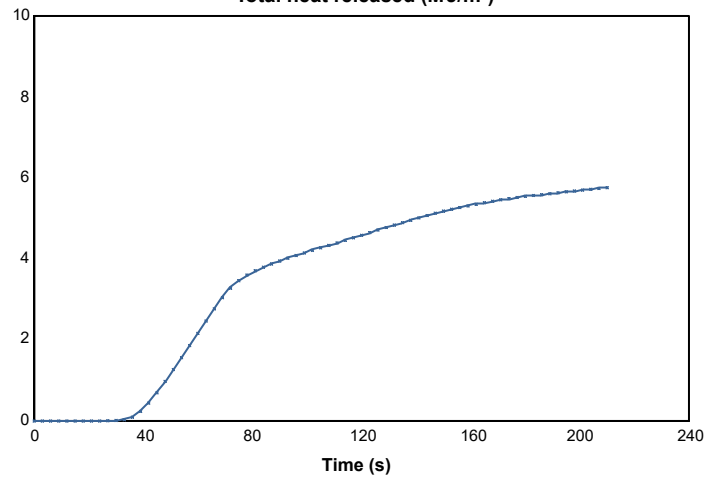
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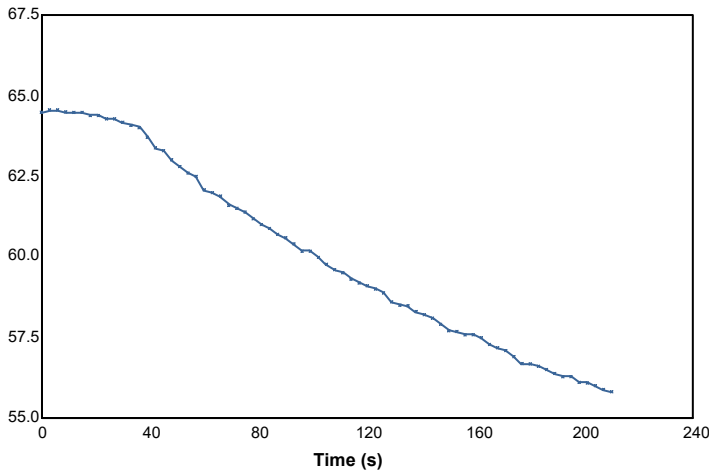
Mass loss rate (g/s)



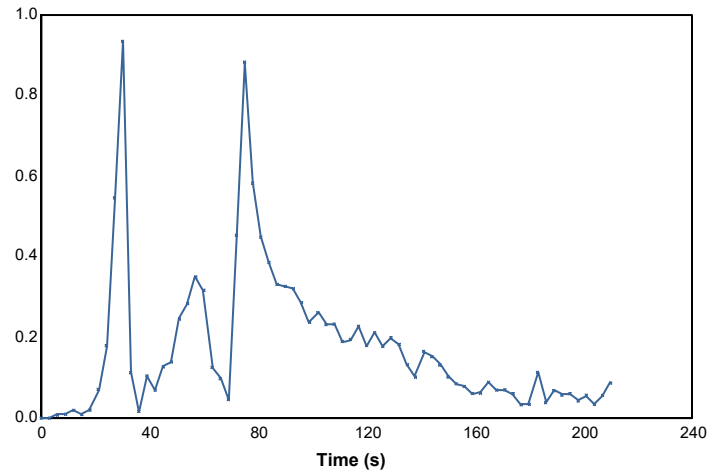
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s)/m<sup>2</sup>)



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