

# 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

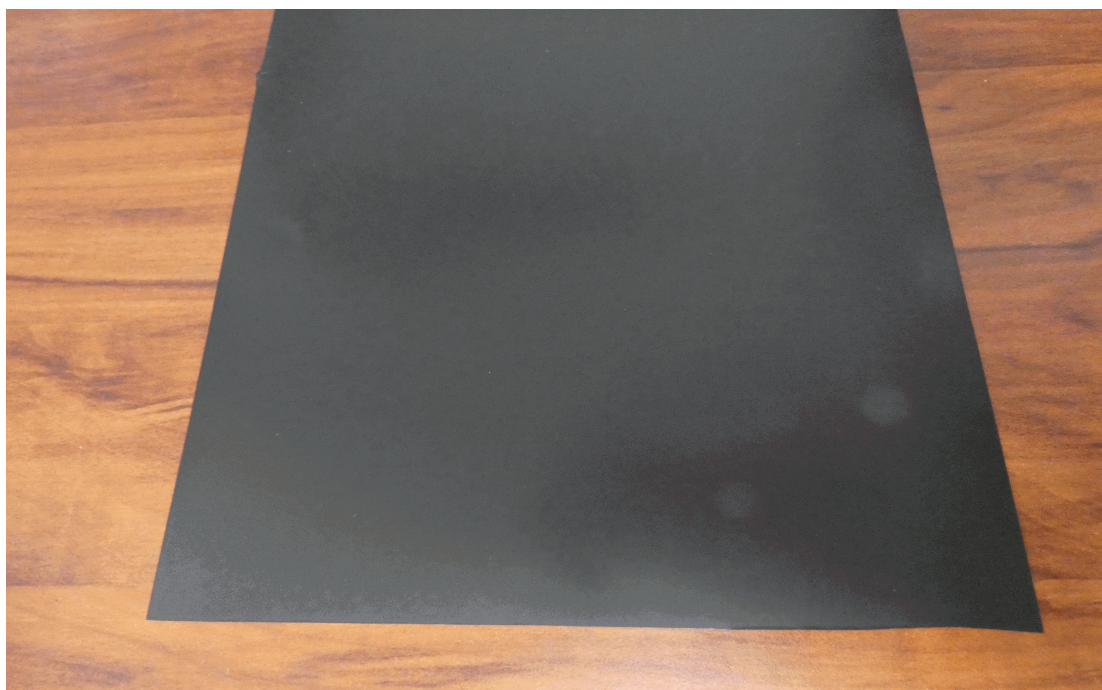
## TEST REPORT

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

**Test Number :** 23-002457  
**Issue Date :** 29/06/2023  
**Print Date :** 13/07/2023

### Sample Description

Clients Ref : "Oracal 8800"  
Self adhesive flexible film  
Colour : Translucent Black  
End Use : Rear Illuminated Signage  
Nominal Composition : PVC face with acrylic adhesive  
Nominal Thickness : 50 micron



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Chris Campbell

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** 28-06-2023  
**Operator** AWTA Test Operator 9  
**Face Tested** FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	25.1	25.6	25.3	25.3	kW/m <sup>2</sup>
Average Specific extinction area	24.6	18.0	18.3	20.3	m <sup>2</sup> /kg

(according to Specification C1.10 of the Building Code of Australia)

**Test orientation :** Horizontal

	Specimen			Mean	
	1	2	3		
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	25	29	25	26	sec
Test duration	206	210	206	207	sec
Peak heat release after ignition	80.8	90.3	80.5	83.9	kW/m <sup>2</sup>
Average heat at 60 s	50.0	51.1	49.5	50.2	kW/m <sup>2</sup>
Average heat at 180 s	25.1	25.6	25.3	25.3	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	4.5	4.6	4.5	4.5	MJ/m <sup>2</sup>
Average effective heat of combustion	4.6	4.6	4.6	4.6	MJ/kg
Initial thickness	10.1	10.1	10.1	10.1	mm
Initial mass	63.6	63.8	64	63.8	g
Mass remaining	55.6	55.6	56.0	55.7	g
Mass percentage pyrolysed	12.5	12.9	12.4	12.6	%

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Mass loss	1.0	1.0	1.0	1.0	kg/m <sup>2</sup>
Average rate of mass loss	5.4	5.5	5.5	5.5	g/m <sup>2</sup> .s

Additional Observations NONE

Difficulties Encountered during Testing NONE

Each specimen was self adhered to 10mm thick plasterboard prior to testing

Tests were conducted with a wire grid placed over the sample during testing .  
This was done to contain intumescent sample within the sample holder.

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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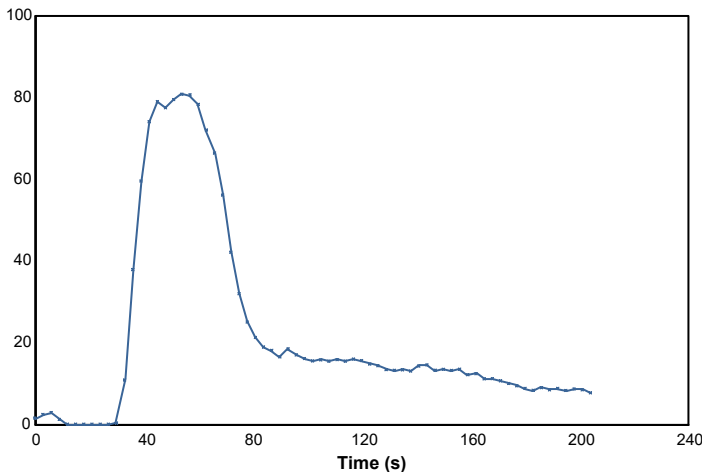
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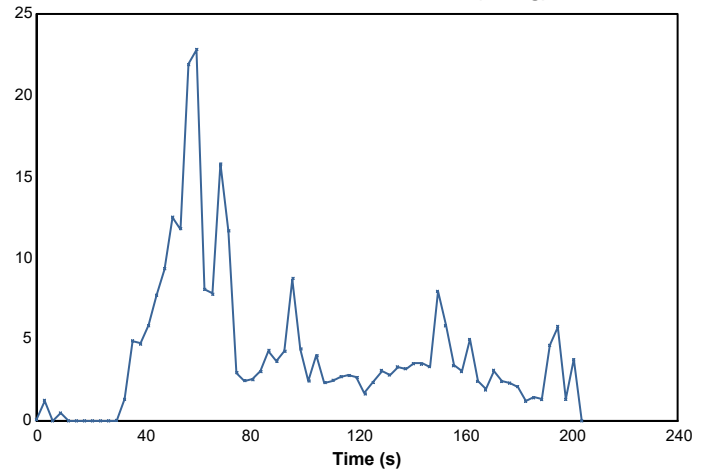
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**Issue Date :** 29/06/2023  
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**Specimen :** 1

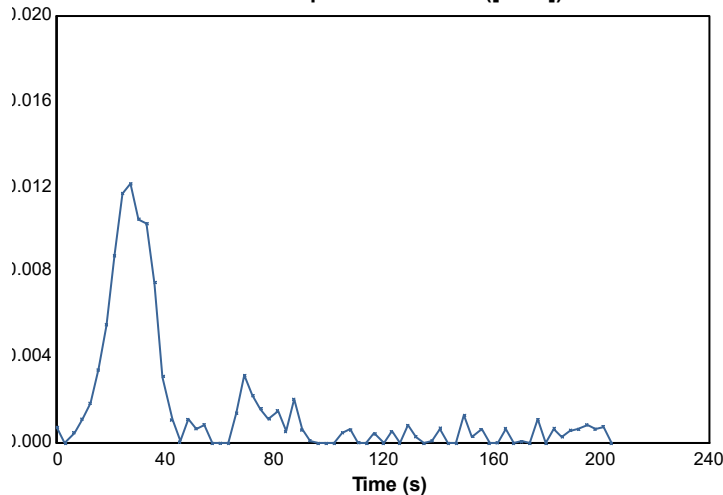
**Heat release rate (kW/m<sup>2</sup>)**



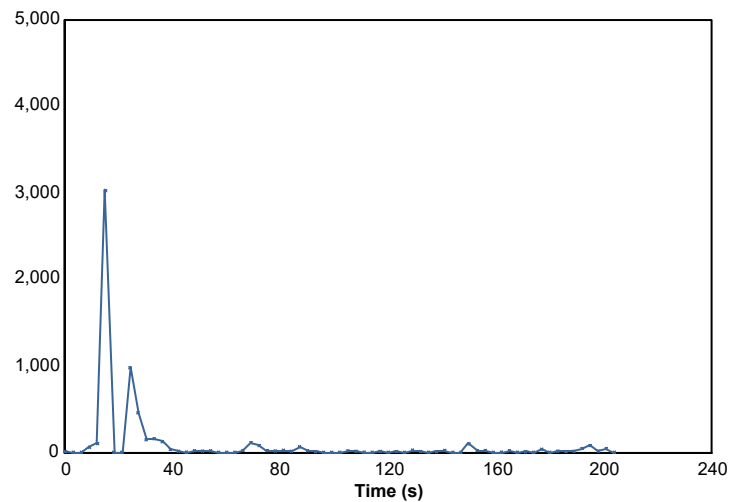
**Effective heat of combustion (MJ/kg)**



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



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



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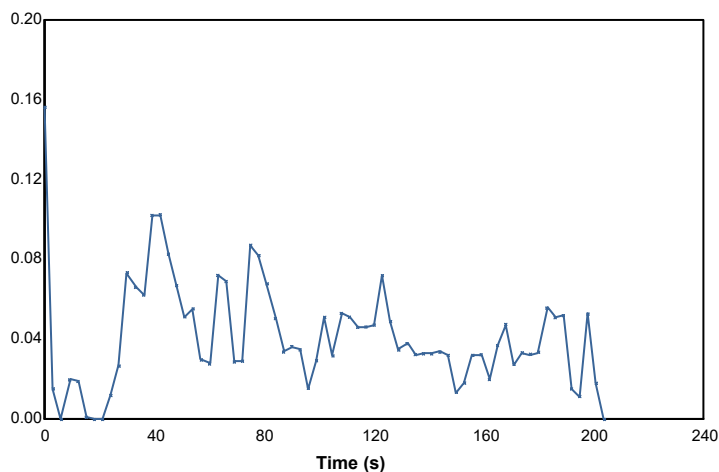
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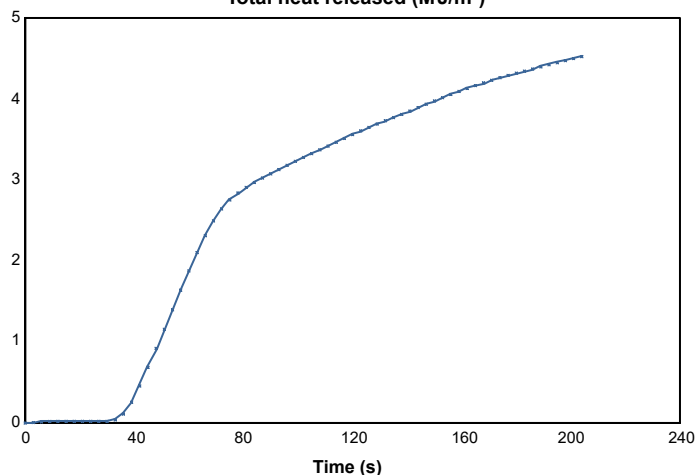
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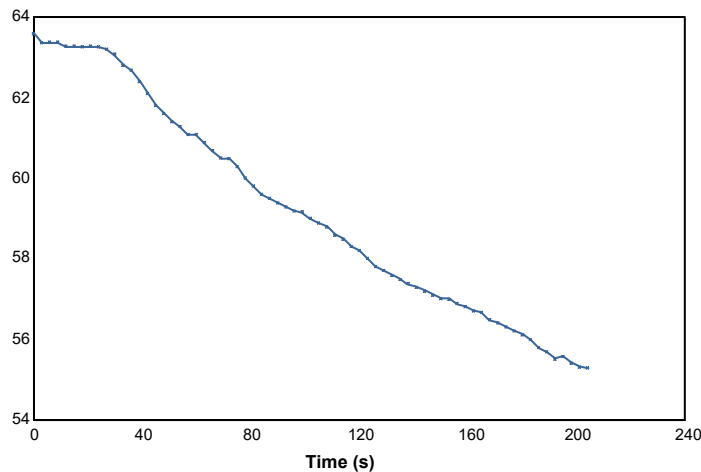
Mass loss rate (g/s)



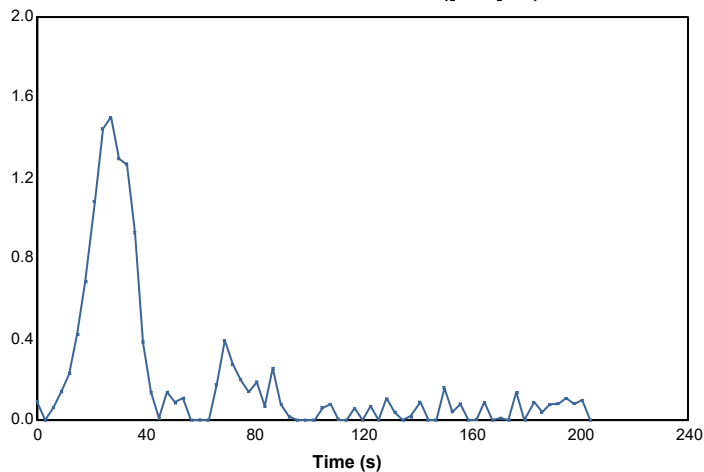
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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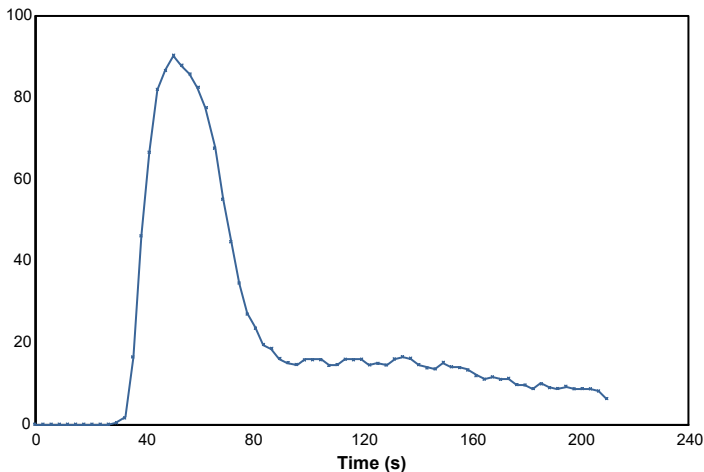
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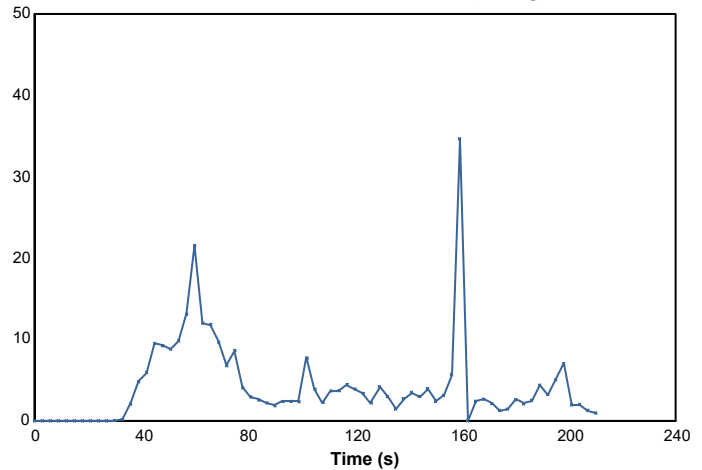
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**Specimen :** 2

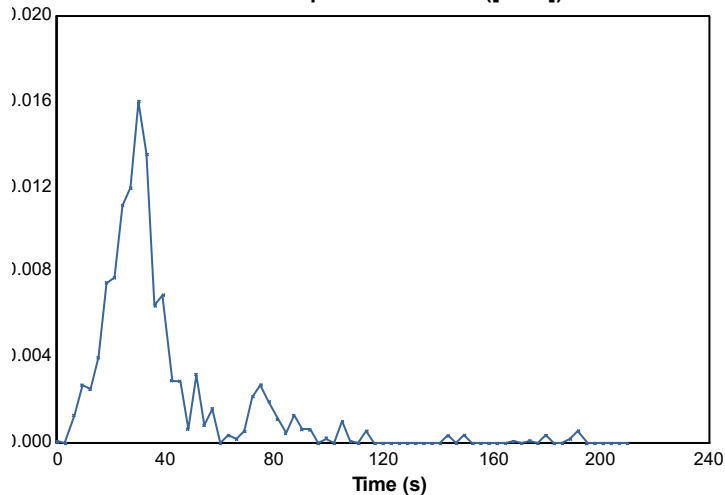
**Heat release rate (kW/m<sup>2</sup>)**



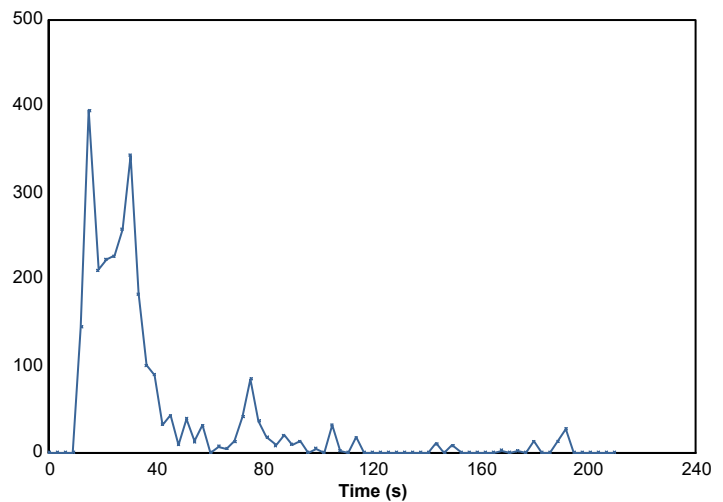
**Effective heat of combustion (MJ/kg)**



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



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



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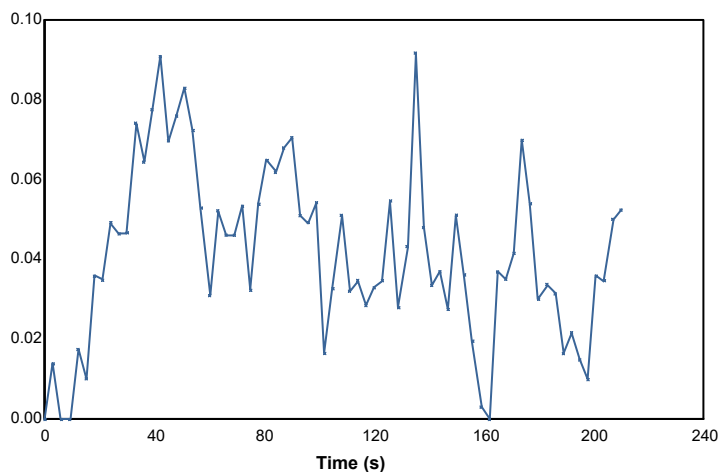
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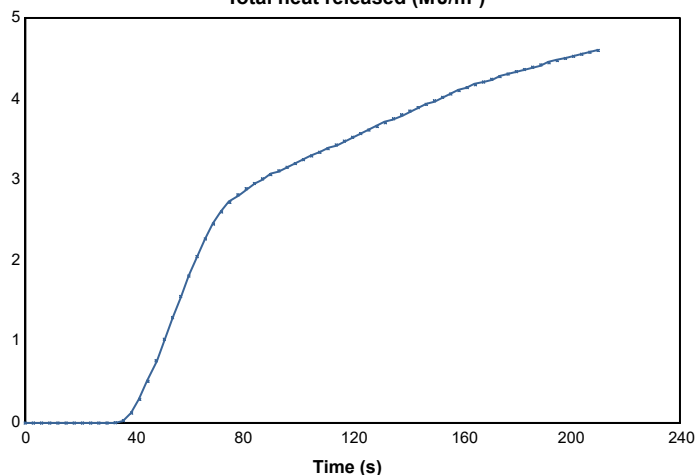
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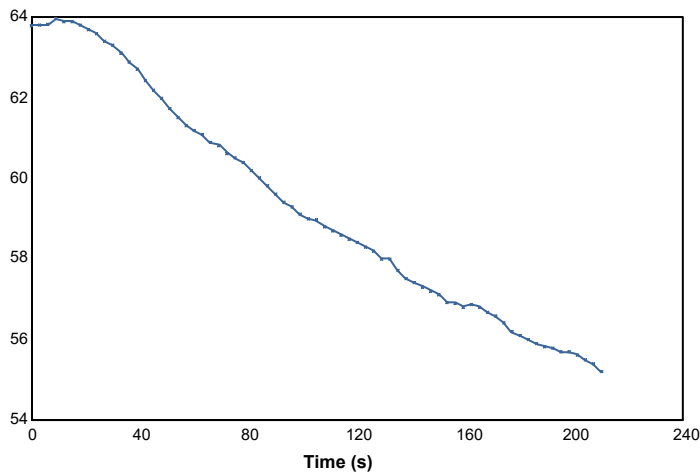
Mass loss rate (g/s)



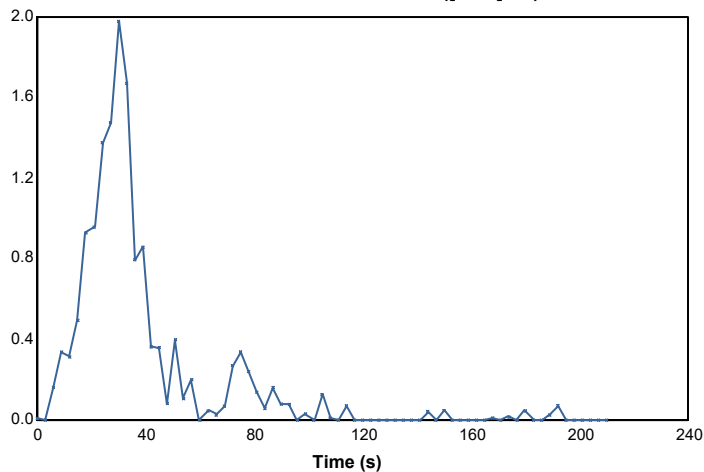
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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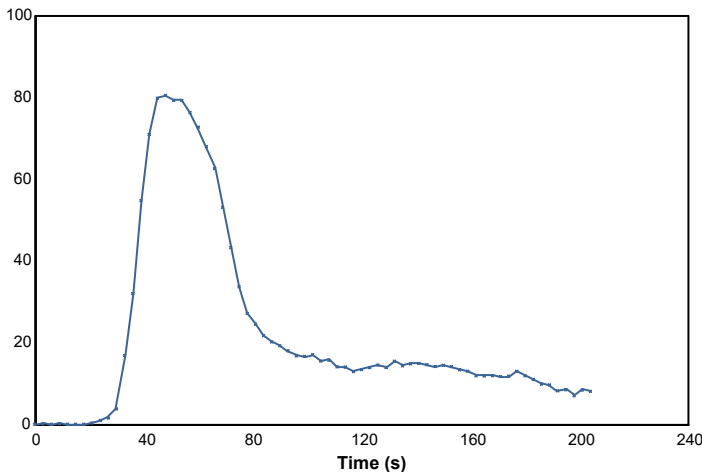
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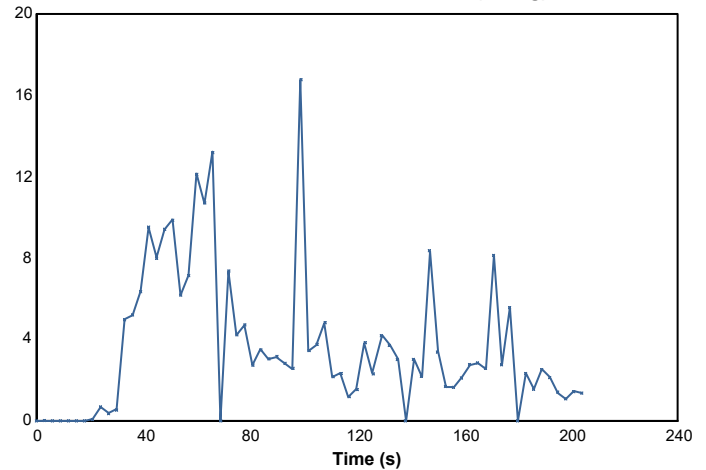
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**Specimen :** 3

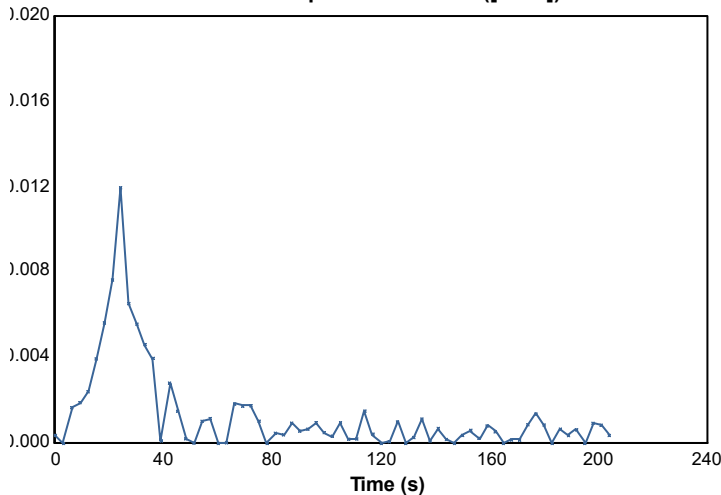
**Heat release rate (kW/m<sup>2</sup>)**



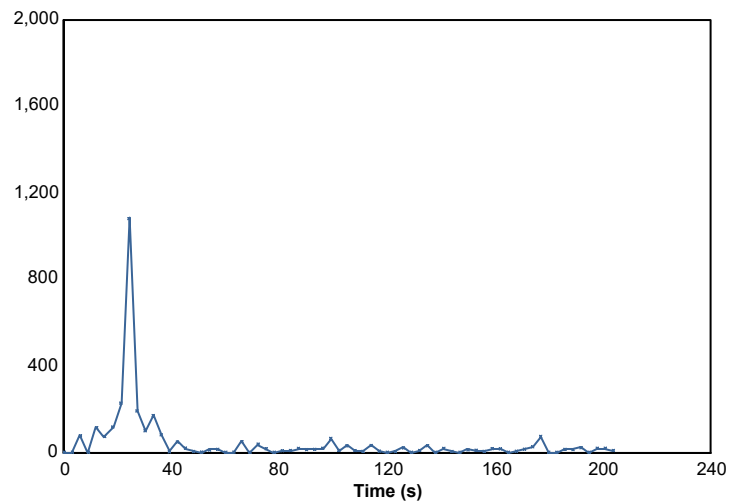
**Effective heat of combustion (MJ/kg)**



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



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



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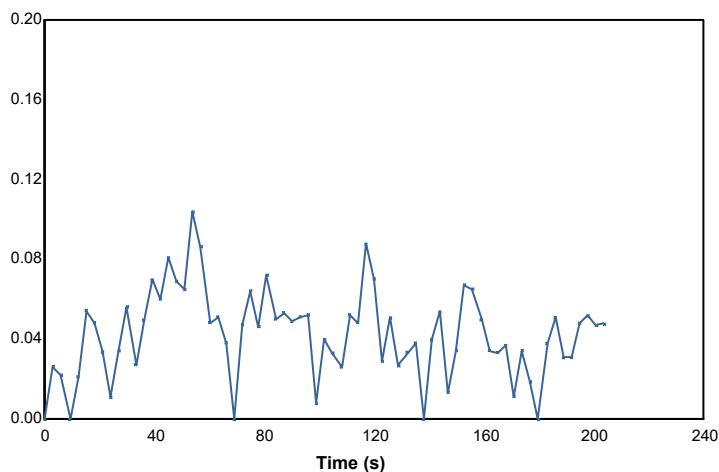
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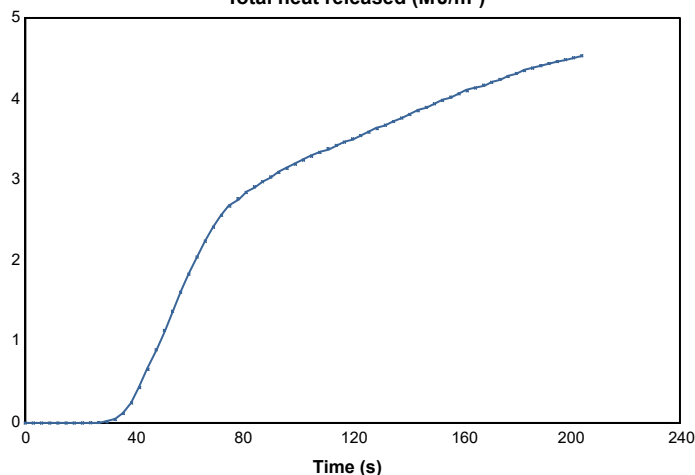
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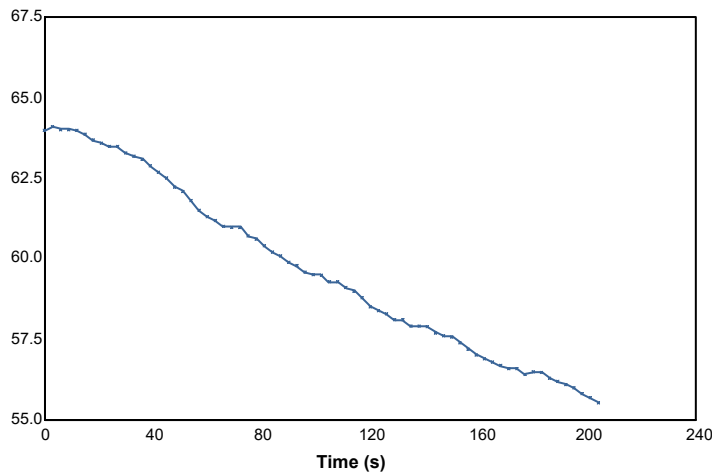
Mass loss rate (g/s)



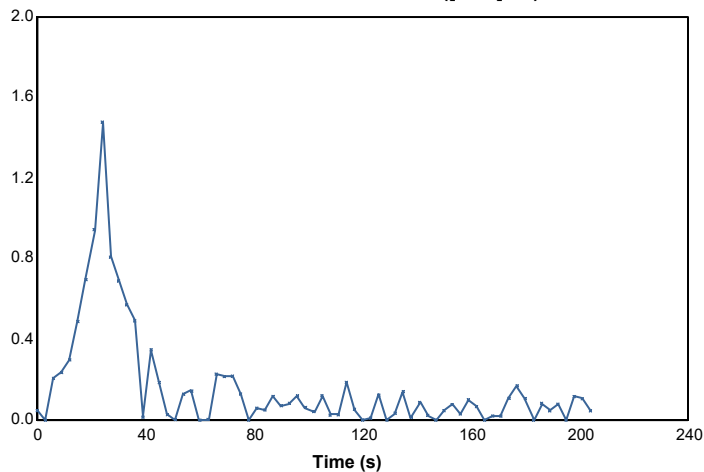
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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