

# 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

## Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

**Test Sponsor :** Materialised Pty Ltd  
19 Heath Road  
Blakehurst NSW 2221

**Test Number :** 21-003070  
**Issue Date :** 24/06/2021  
**Print Date :** 15/09/2021

**Sponsor Product** Wallpaper sample  
Colour : Natural  
End Use : Wallcovering  
Nominal Composition : 100% Cellulose  
Nominal Mass per Unit Area/Density : Approx 150g/m2  
Nominal Thickness : Approx 0.2mm

Product Group Number Classification : 1

Average Specific Extinction Area : 15.3 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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## TEST REPORT

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19 Heath Road  
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**Test Number :** 21-003070  
**Issue Date :** 24/06/2021  
**Print Date :** 15/09/2021  
**Order Number :** 45001

**Sample Description** Wallpaper sample  
Colour : Natural  
End Use : Wallcovering  
Nominal Composition : 100% Cellulose  
Nominal Mass per Unit Area/Density : Approx 150g/m2  
Nominal Thickness : Approx 0.2mm

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

Date Tested 24-06-2021  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	30.2	28.6	32.0	30.3	kW/m <sup>2</sup>
Average Specific extinction area	14.5	13.5	18.0	15.3	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	11	10	8	10	sec
Test duration	239	235	224	233	sec
Peak heat release after ignition	81.9	73.1	88.1	81.0	kW/m <sup>2</sup>
Average heat at 60 s	53.3	44.6	54.2	50.7	kW/m <sup>2</sup>
Average heat at 180 s	34.8	32.4	35.5	34.3	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	6.9	6.4	6.9	6.7	MJ/m <sup>2</sup>

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

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Average effective heat of combustion	5.5	5.3	5.9	5.6	MJ/kg
Initial thickness	10.2	10.2	10.2	10.2	mm
Initial mass	56.5	60.6	56.5	57.9	g
Mass remaining	46.5	50.7	47.0	48.1	g
Mass percentage pyrolysed	17.7	16.3	16.8	16.9	%
Mass loss	1.2	1.2	1.2	1.2	kg/m <sup>2</sup>
Average rate of mass loss	5.4	5.4	5.4	5.4	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.

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

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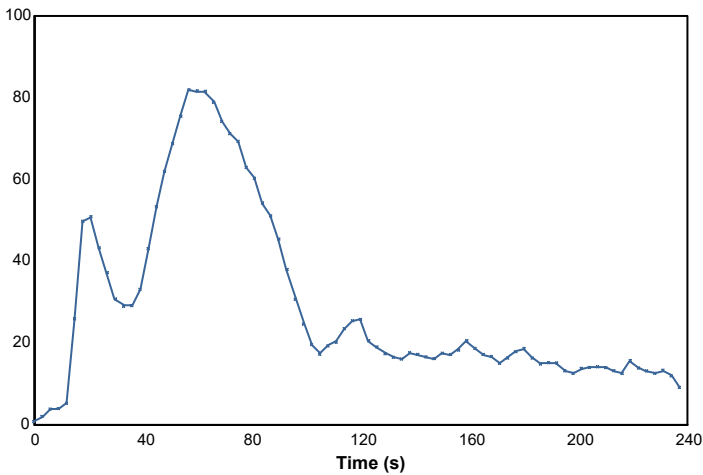
## TEST REPORT

**Client :** Materialised Pty Ltd  
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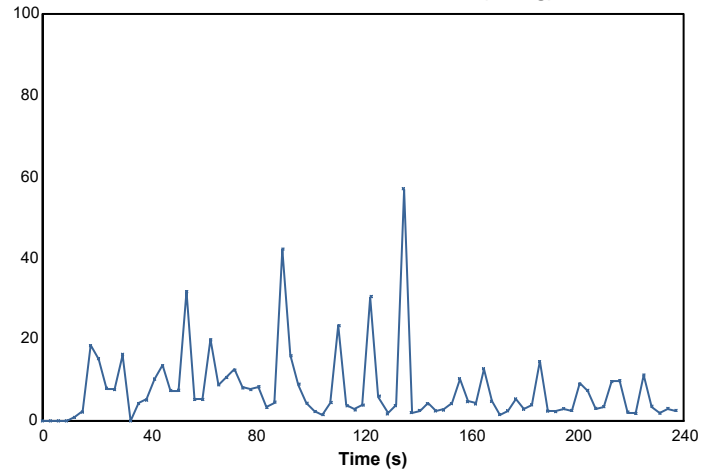
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**Issue Date :** 24/06/2021  
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**Order Number :** 45001

**Specimen :** 1

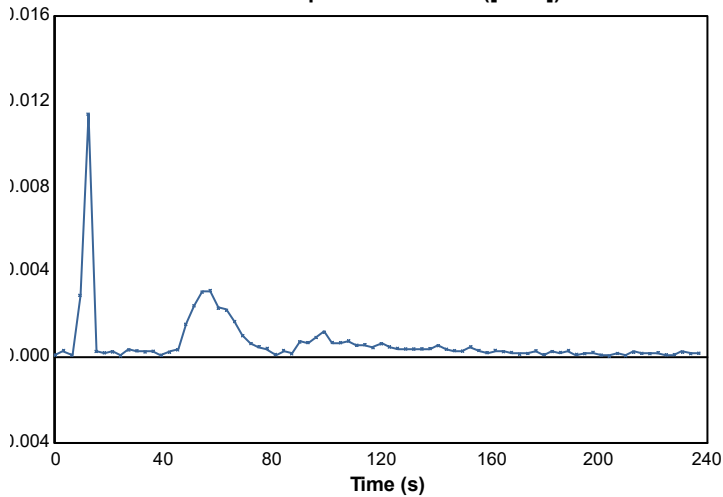
**Heat release rate (kW/m<sup>2</sup>)**



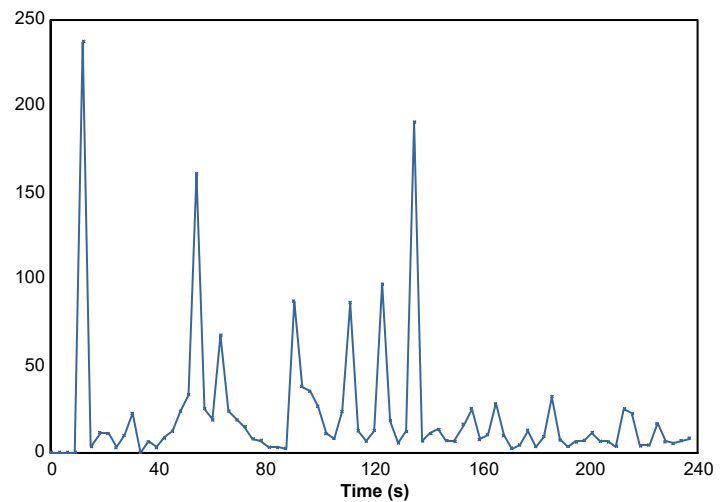
**Effective heat of combustion (MJ/kg)**



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



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



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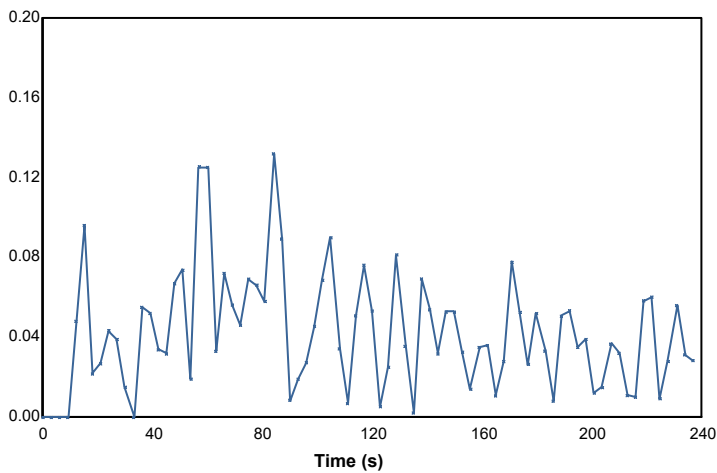
Phone (03) 9371 2400

## TEST REPORT

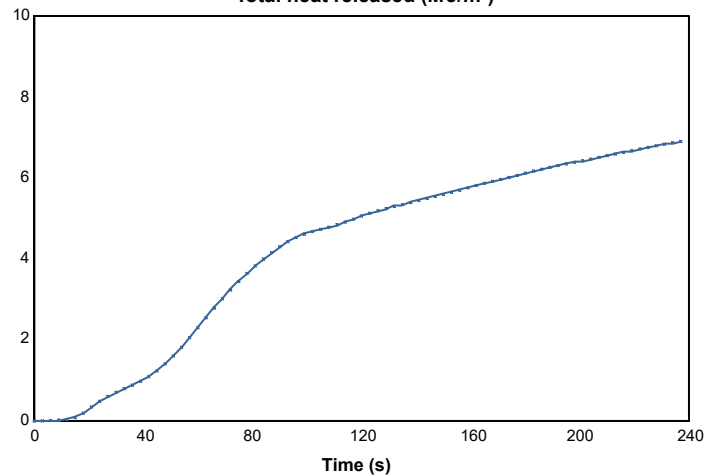
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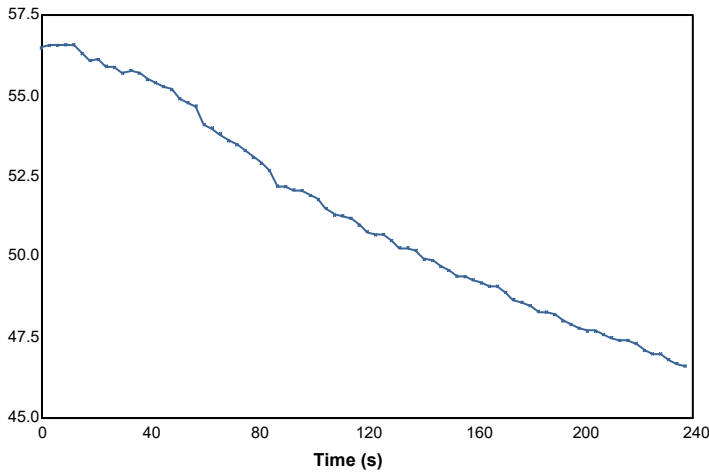
**Mass loss rate (g/s)**



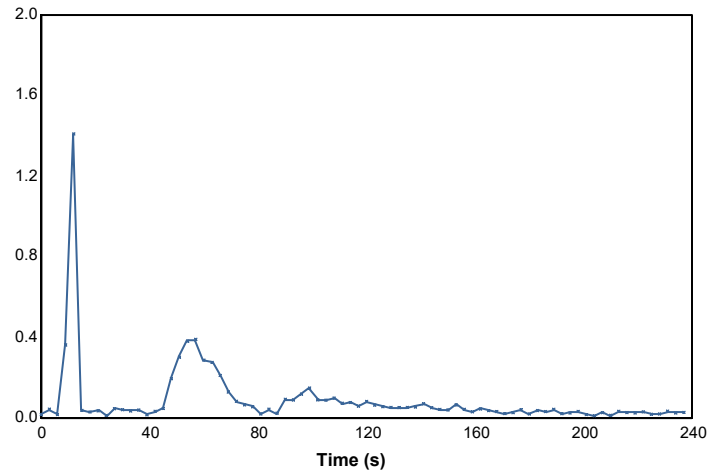
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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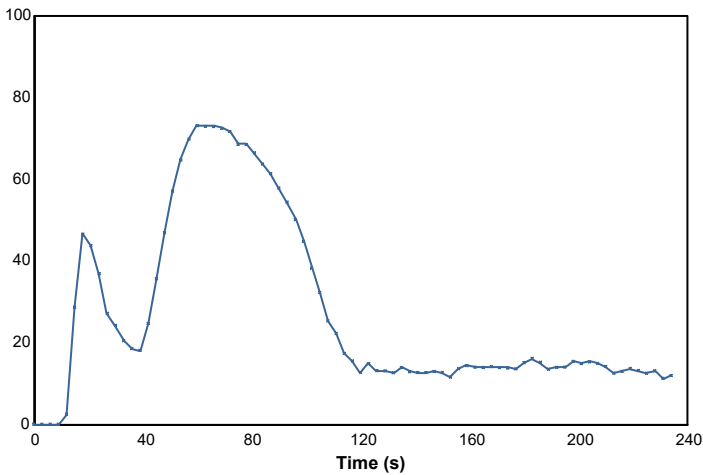
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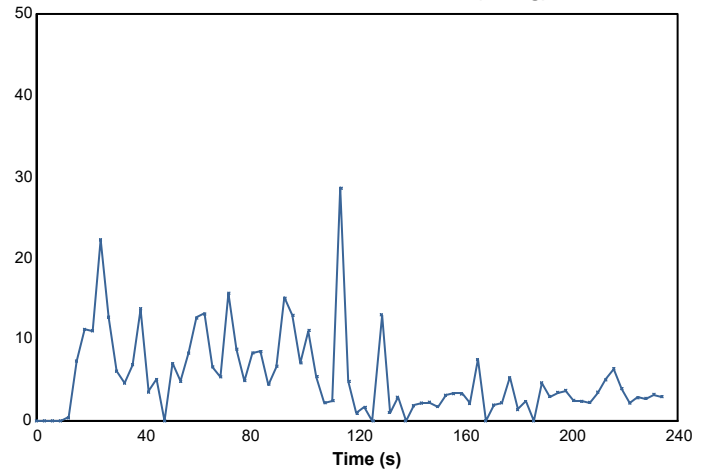
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**Specimen :** 2

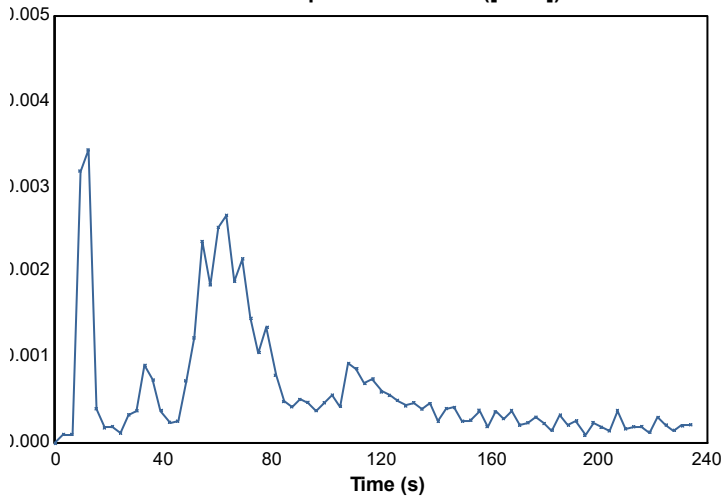
**Heat release rate (kW/m<sup>2</sup>)**



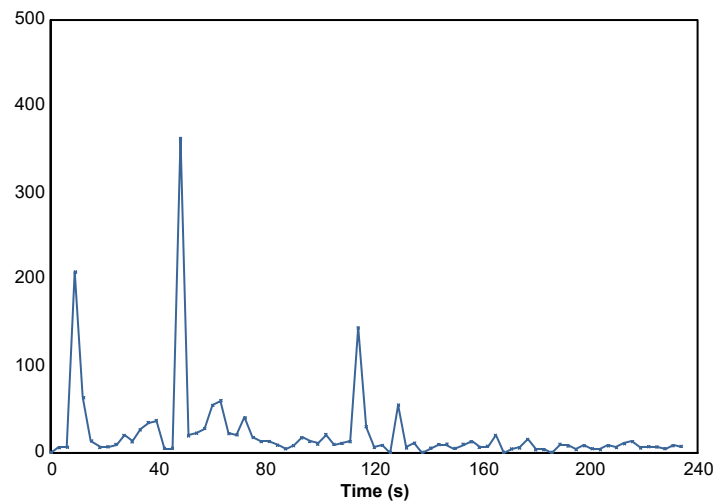
**Effective heat of combustion (MJ/kg)**



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



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



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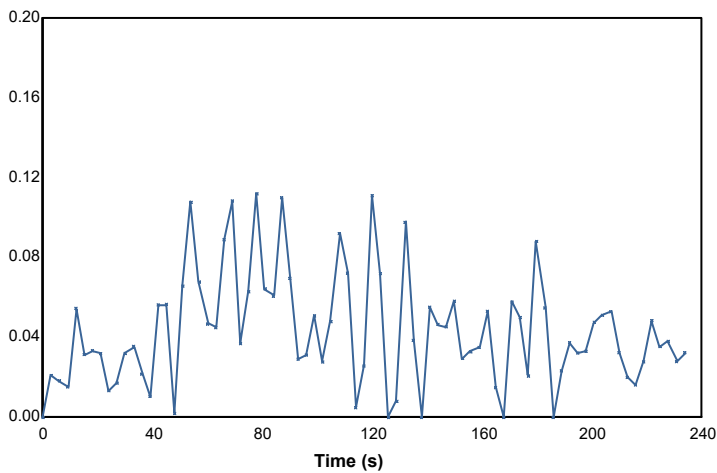
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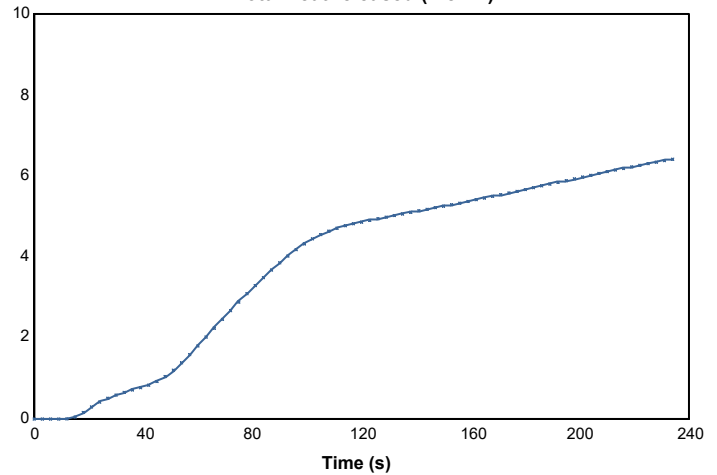
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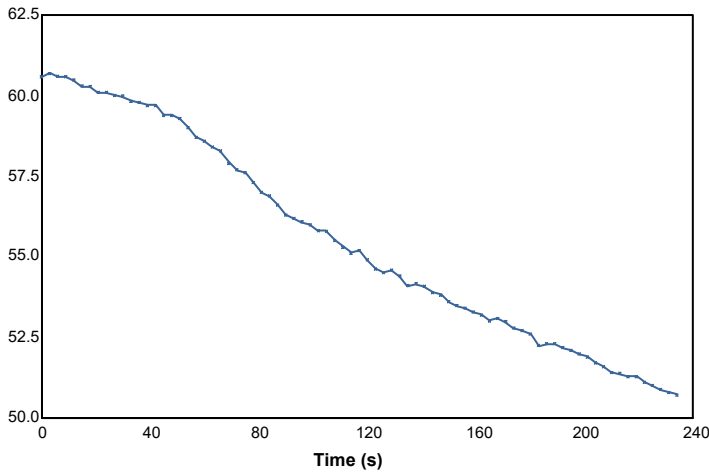
**Mass loss rate (g/s)**



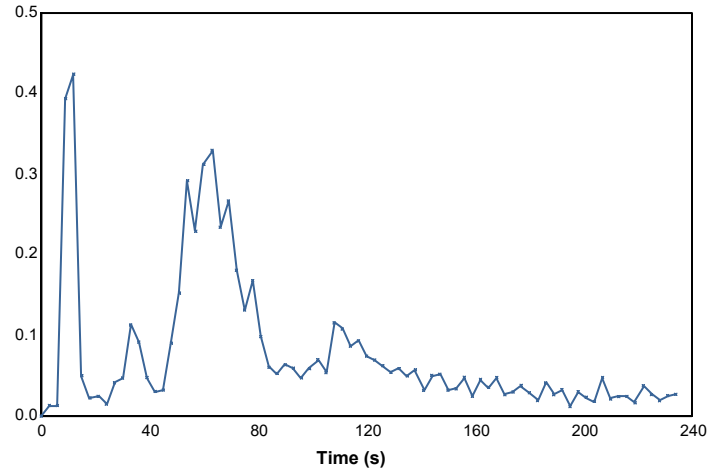
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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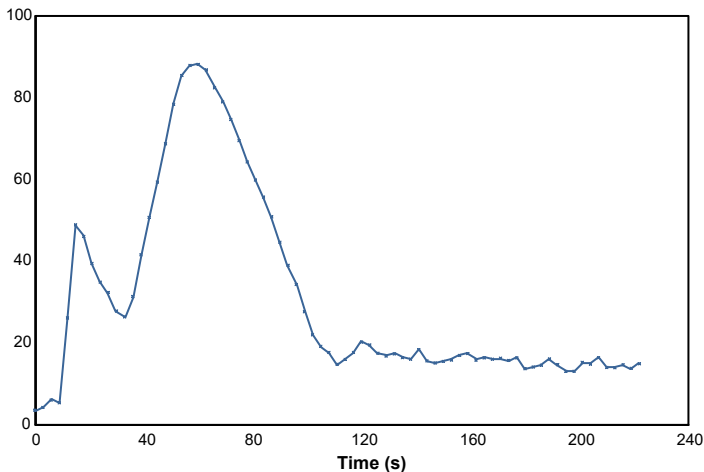
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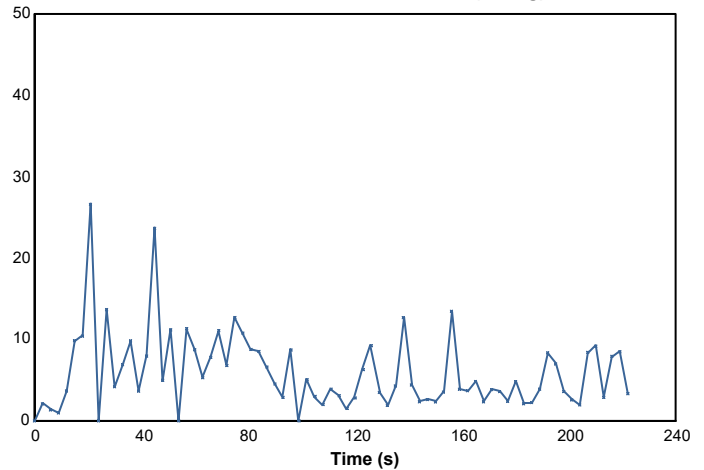
**Test Number :** 21-003070  
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**Specimen :** 3

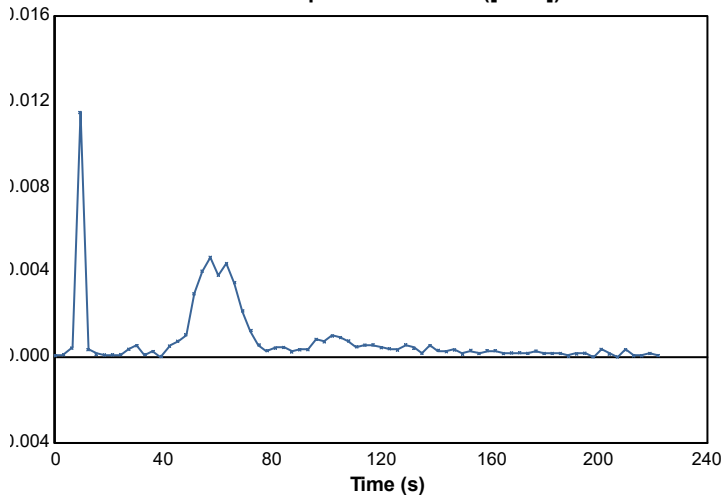
**Heat release rate (kW/m<sup>2</sup>)**



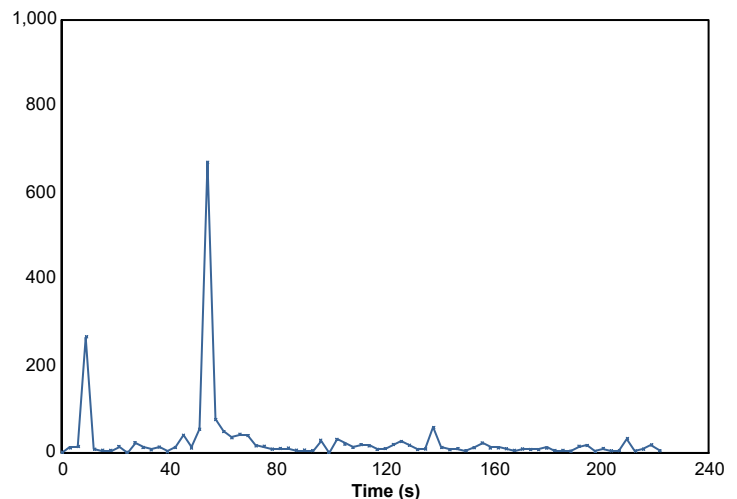
**Effective heat of combustion (MJ/kg)**



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



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



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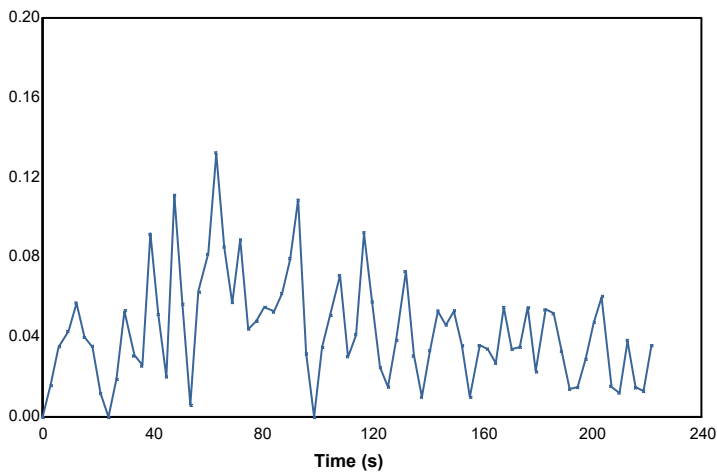
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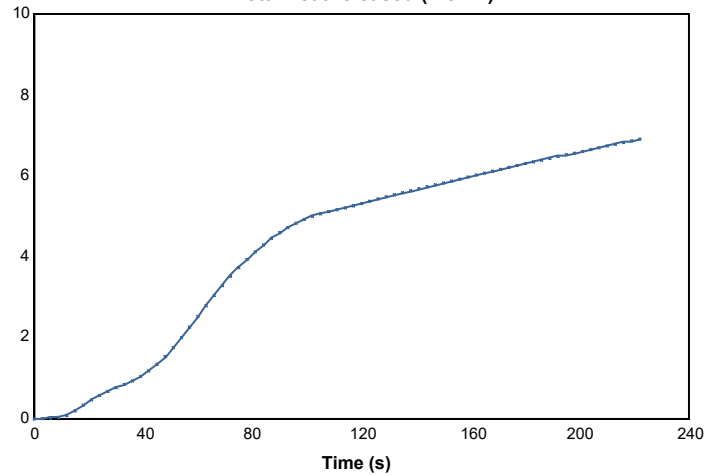
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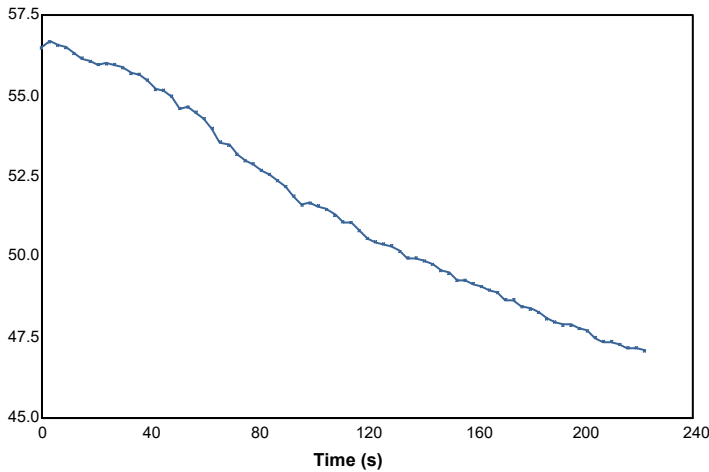
**Mass loss rate (g/s)**



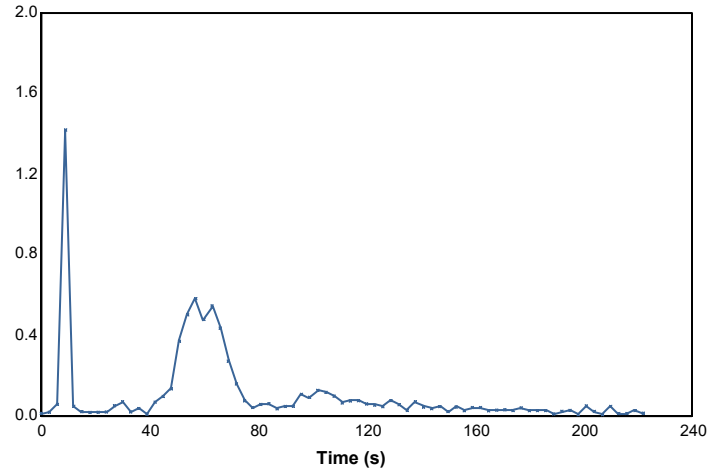
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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