

# 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 :** Unique Fabrics  
6 Mt Eden Road  
Eden Terrace, Auckland New Zealand  
New Zealand

**Test Number :** 24-003526  
**Issue Date :** 19/09/2024  
**Print Date :** 25/09/2024

### Sample Description

Clients Ref : "Les Tricots Chintz 73100/Tangram Myriad 24100/Les Naturels Verdure 26760"  
Textile on non-woven backing  
Colour : Multicolour  
End Use : Wall Covering  
Nominal Mass per Unit Area/Density : Approx: 220g/m2  
Nominal Thickness : Approx: 0.9mm



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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 18-09-2024  
Operator AWTA Test Operator 21  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	42.7	46.3	46.7	45.2	kW/m <sup>2</sup>
Average Specific extinction area	68.0	61.9	47.5	59.1	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	42	49	47	46	sec
Test duration	231	239	229	233	sec
Peak heat release after ignition	177.7	169.0	171.8	172.9	kW/m <sup>2</sup>
Average heat at 60 s	94.8	99.4	102.5	98.9	kW/m <sup>2</sup>
Average heat at 180 s	44.3	47.9	46.7	46.3	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	8.2	8.8	8.5	8.5	MJ/m <sup>2</sup>
Average effective heat of combustion	6.7	7.2	7.2	7.0	MJ/kg
Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	62.3	62.1	62.6	62.3	g
Mass remaining	52.4	52.2	53.0	52.5	g
Mass percentage pyrolysed	15.9	15.9	15.3	15.7	%

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Mass loss	1.2	1.2	1.2	1.2	kg/m <sup>2</sup>
Average rate of mass loss	6.4	6.4	6.5	6.4	g/m <sup>2</sup> .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

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

Retainer grid was used to contain the test specimen 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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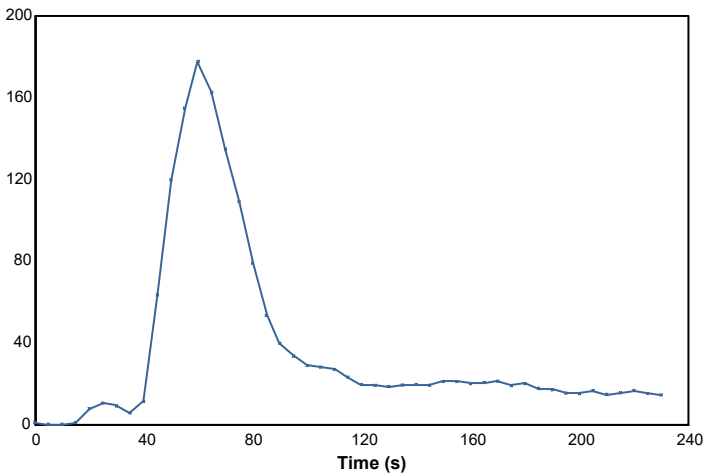
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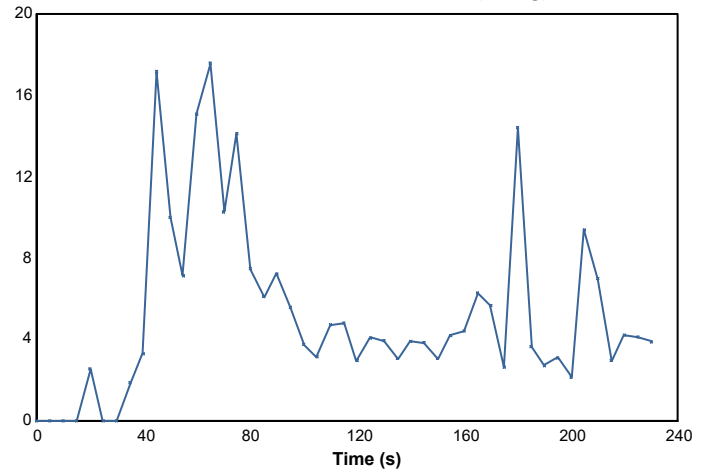
**Test Number :** 24-003526  
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**Specimen :** 1

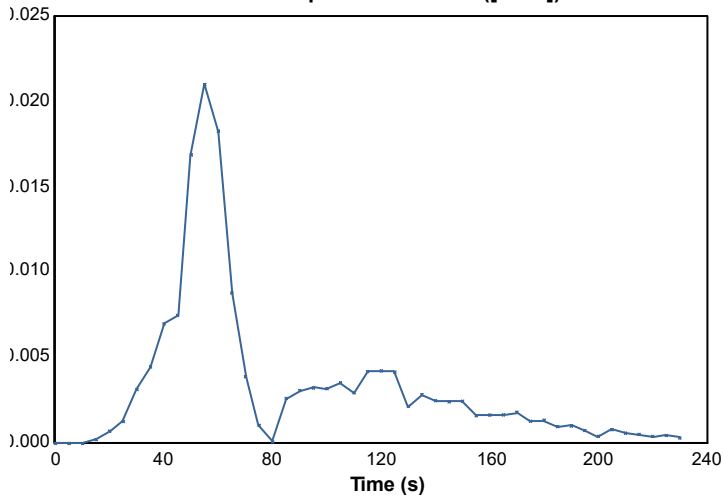
**Heat release rate (kW/m<sup>2</sup>)**



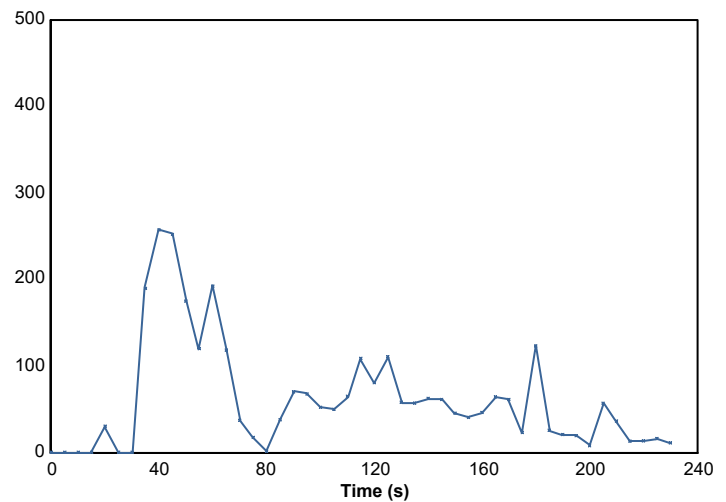
**Effective heat of combustion (MJ/kg)**



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



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



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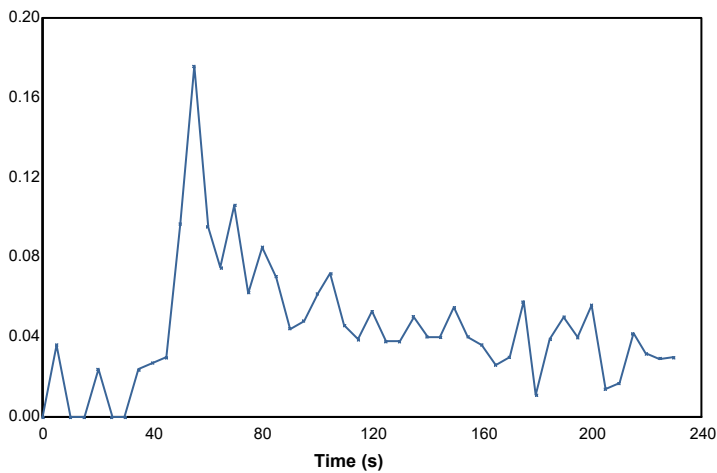
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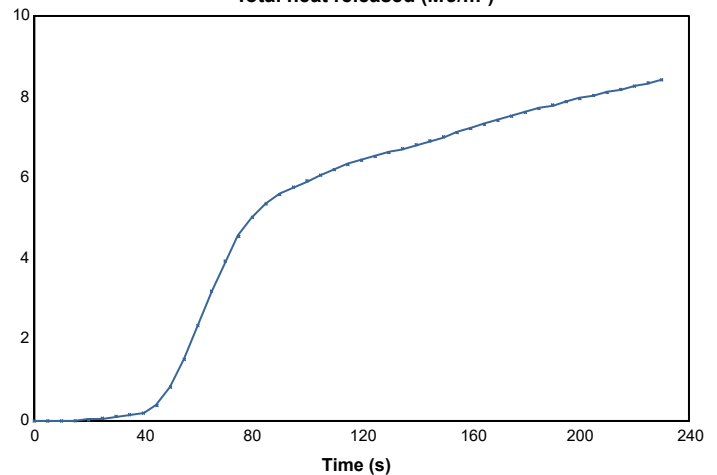
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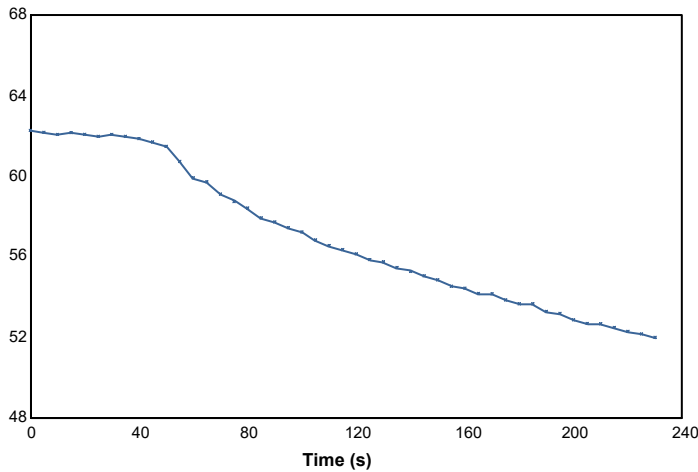
Mass loss rate (g/s)



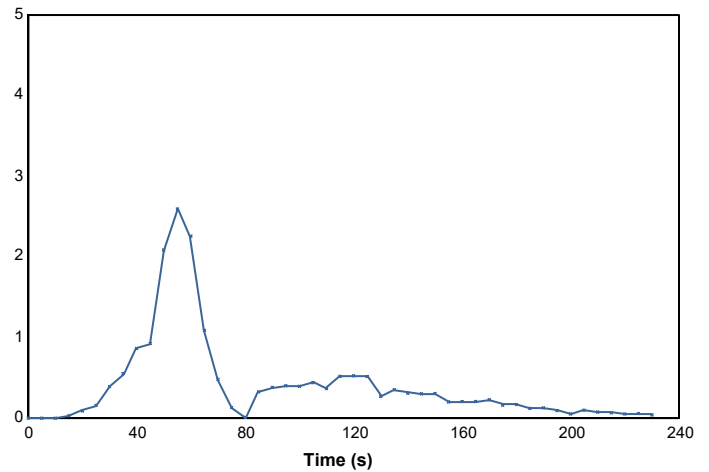
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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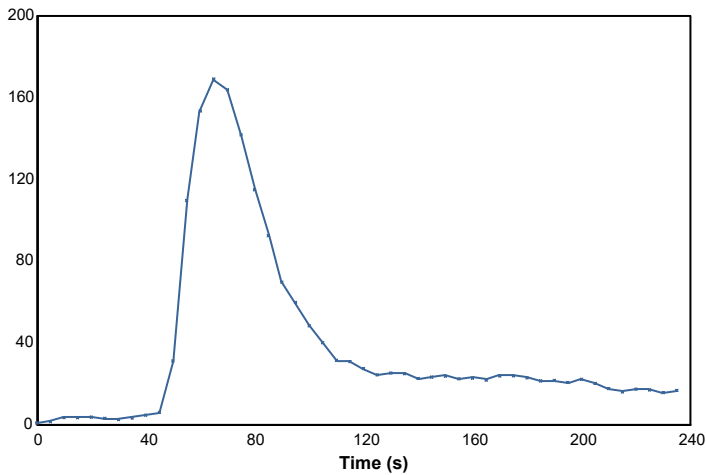
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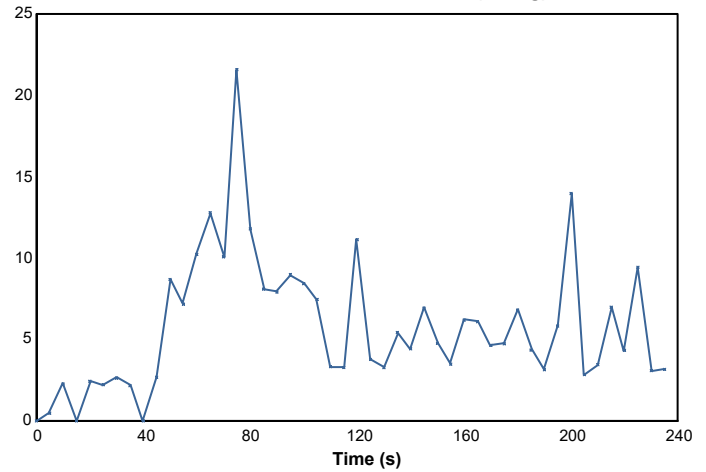
**Test Number :** 24-003526  
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**Specimen :** 2

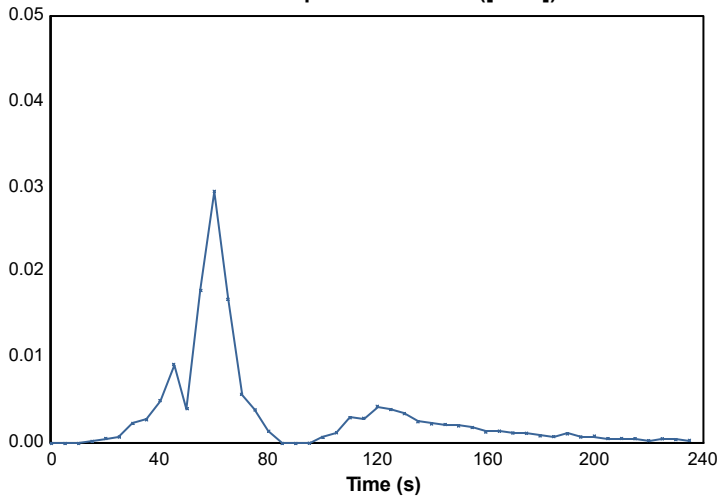
**Heat release rate (kW/m<sup>2</sup>)**



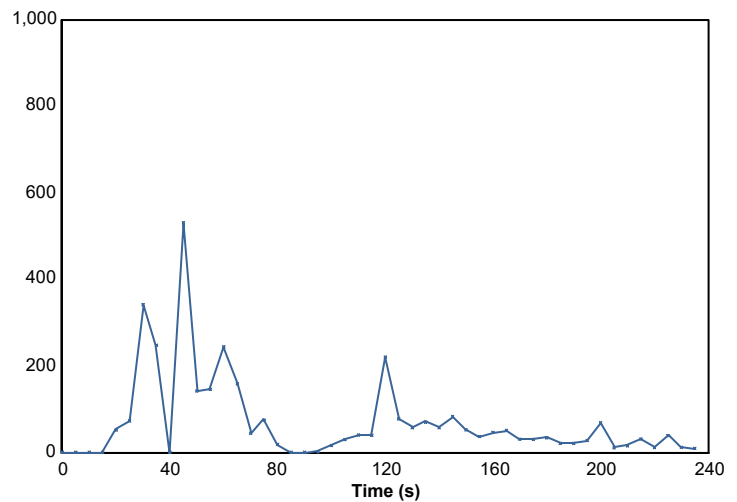
**Effective heat of combustion (MJ/kg)**



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



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



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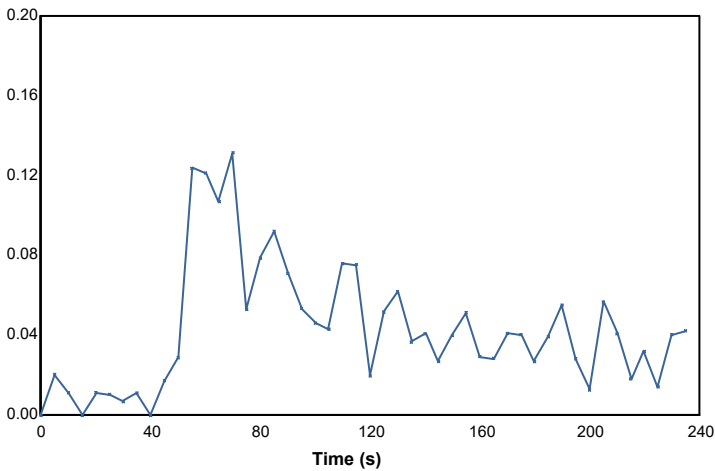
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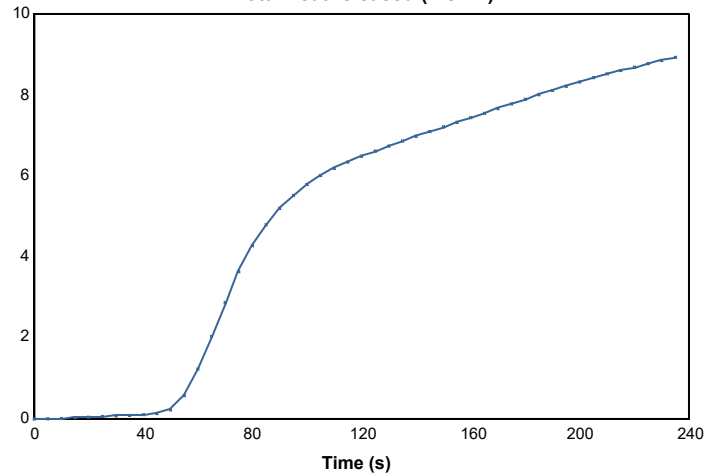
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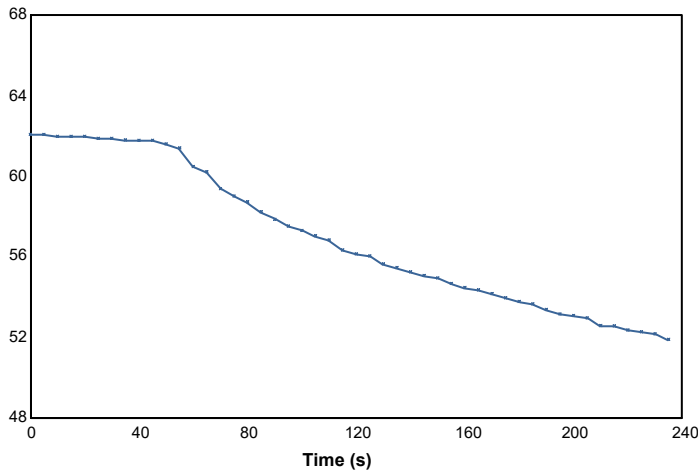
Mass loss rate (g/s)



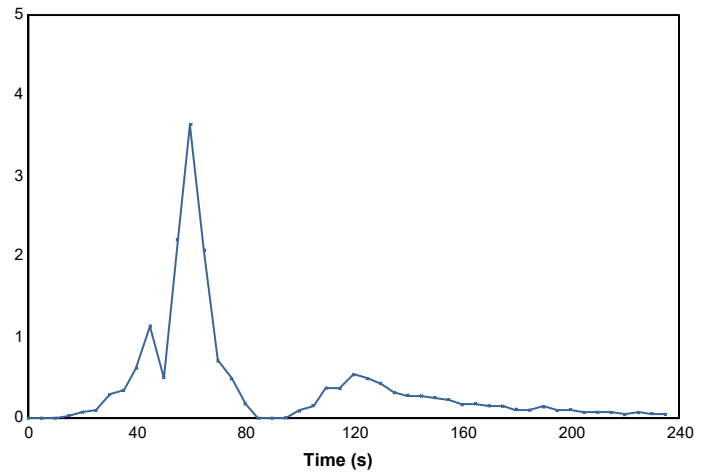
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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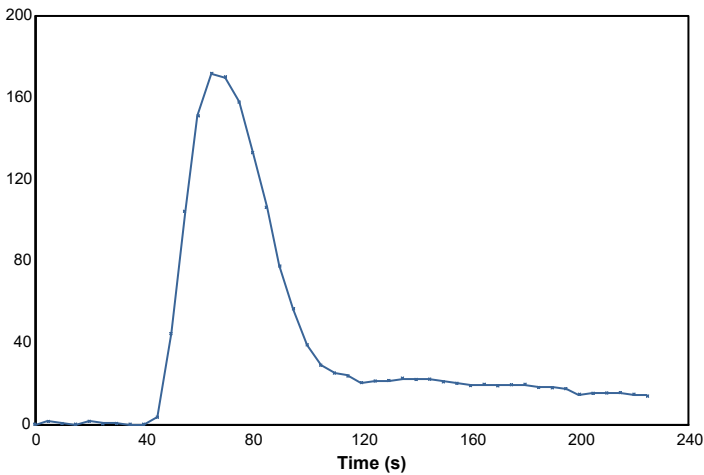
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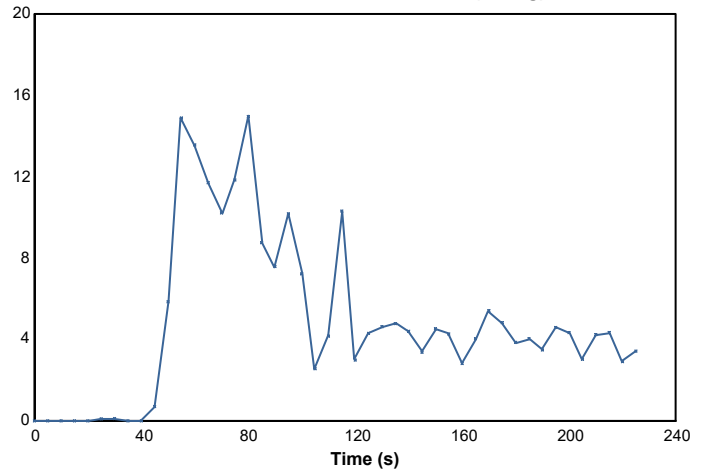
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**Specimen :** 3

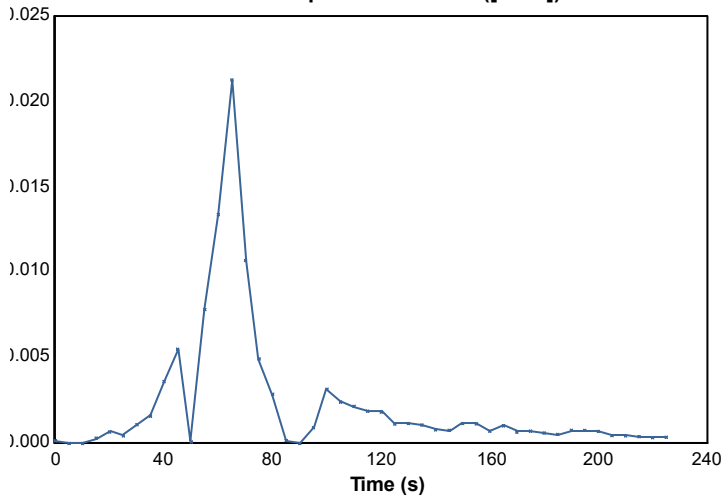
**Heat release rate (kW/m<sup>2</sup>)**



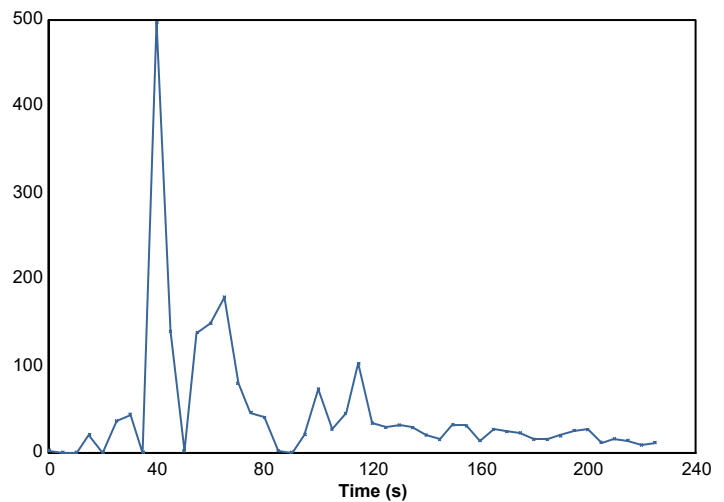
**Effective heat of combustion (MJ/kg)**



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



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



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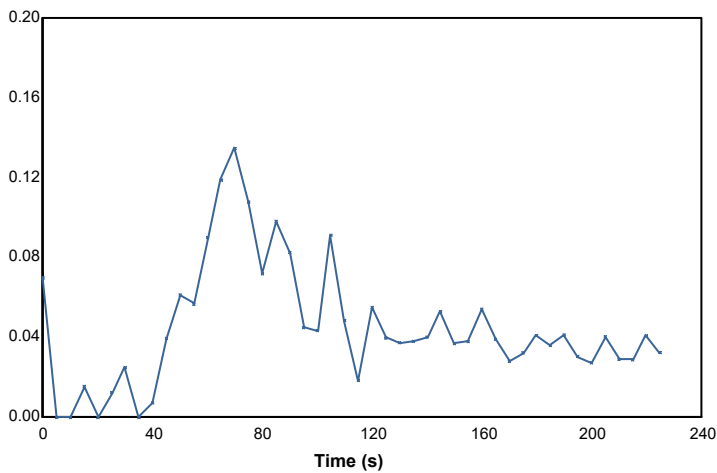
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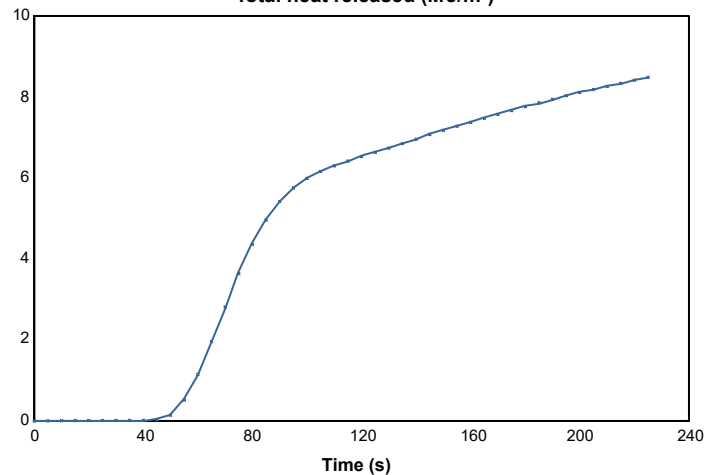
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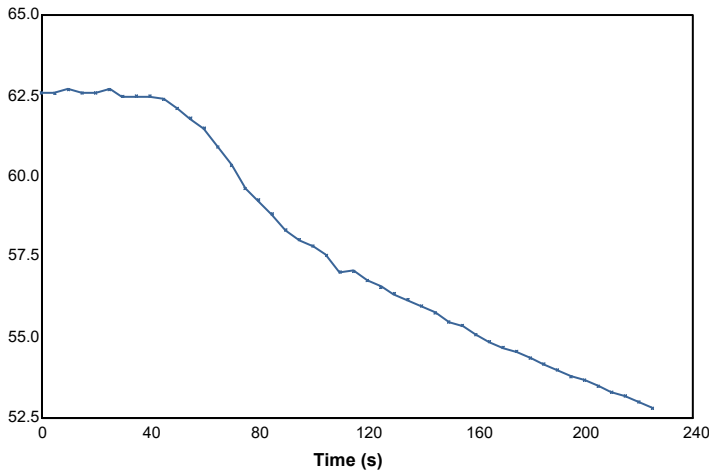
Mass loss rate (g/s)



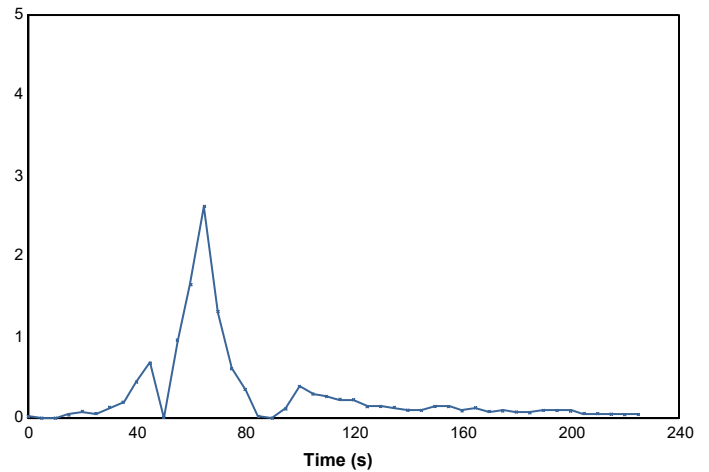
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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