

# 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 :** Warwick Fabrics Aust Pty Ltd  
6-10 Sackville Street  
Collingwood VIC 3066

**Test Number :** 20-005331  
**Issue Date :** 22/10/2020  
**Print Date :** 22/10/2020

**Sponsor Product** Clients Ref : "Lustrell Ranger" Cara Hunt  
Leather texture textile on knitted scrim  
Colour : Chocolate  
End Use : Wall Covering  
Nominal Composition : 83% PVC, 17% Polyester  
Nominal Mass per Unit Area/Density : Approx: 790g/m2  
Nominal Thickness : Approx: 1mm

Product Group Number Classification : 2

Average Specific Extinction Area : 193.7 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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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 21/10/2020  
Face Tested Chocolate

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	39.6	29.0	30.9	33.1	kW/m <sup>2</sup>
Average Specific extinction area	220.5	168.8	191.8	193.7	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	5	4	5	5	sec
Test duration	253	393	376	341	sec
Peak heat release after ignition	226.5	216.3	215.2	219.3	kW/m <sup>2</sup>
Average heat at 60 s	119.2	117.3	118.3	118.3	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	51.1	48.0	52.4	50.5	kW/m <sup>2</sup>
Average heat at 300 s	n/a	33.2	35.4	22.8	kW/m <sup>2</sup>
Total heat released	9.8	11.2	11.5	10.8	MJ/m <sup>2</sup>
Average effective heat of combustion	5.6	4.7	5.4	5.2	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	95.4	94.6	93.5	94.5	g
Mass remaining	81.2	75.2	76.3	77.6	g
Mass percentage pyrolysed	14.9	20.5	18.4	17.9	%
Mass loss	1.8	2.4	2.1	2.1	kg/m <sup>2</sup>
Average rate of mass loss	7.1	6.1	5.8	6.3	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 loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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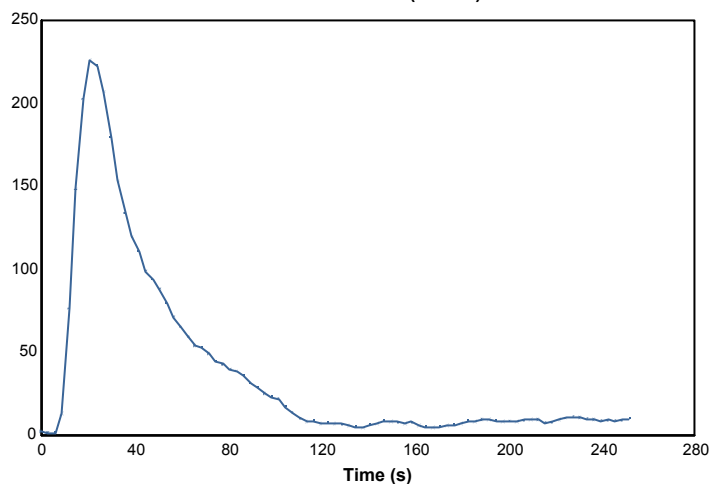
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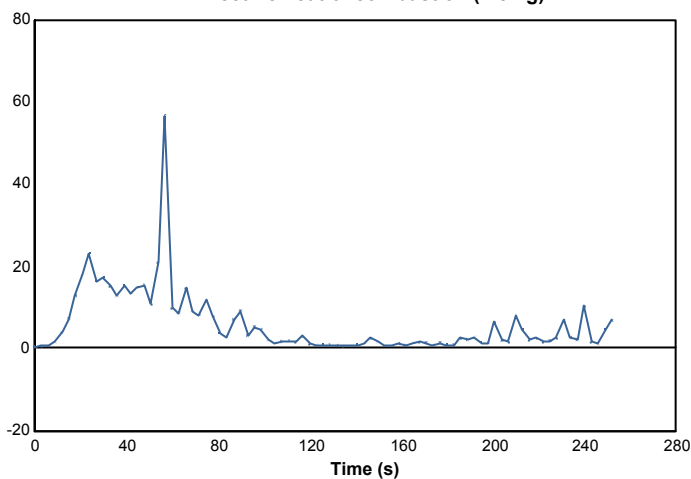
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**Issue Date :** 21/10/2020  
**Print Date :** 22/10/2020

**Specimen :** 1

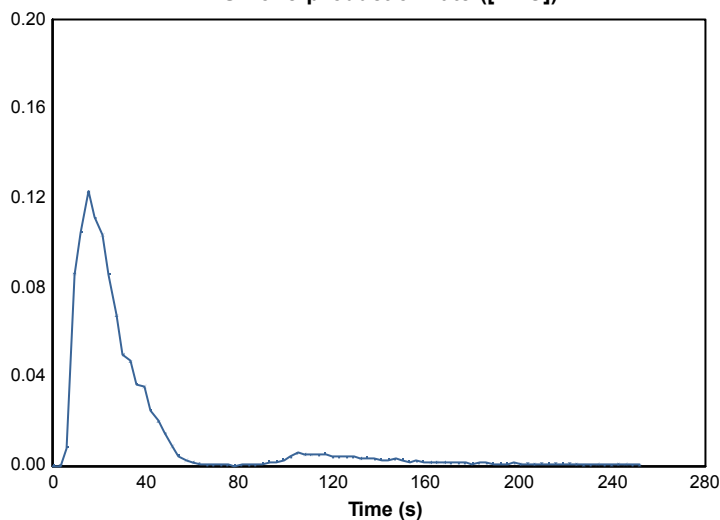
Heat release rate (kW/m<sup>2</sup>)



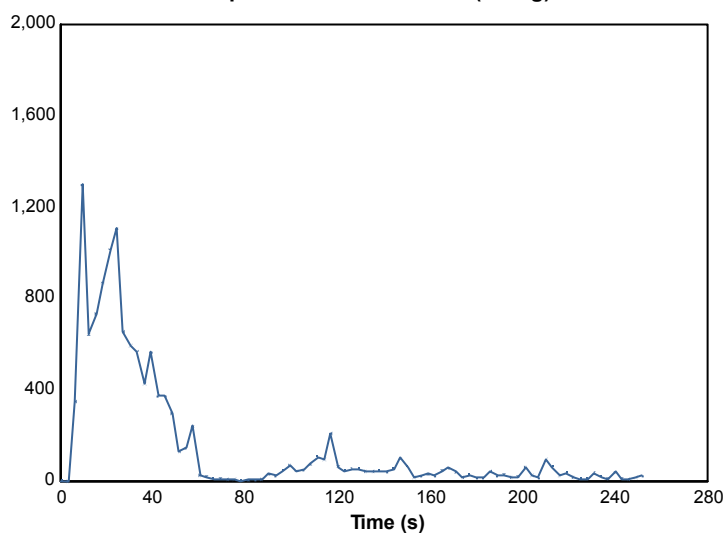
Effective heat of combustion (MJ/kg)



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



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



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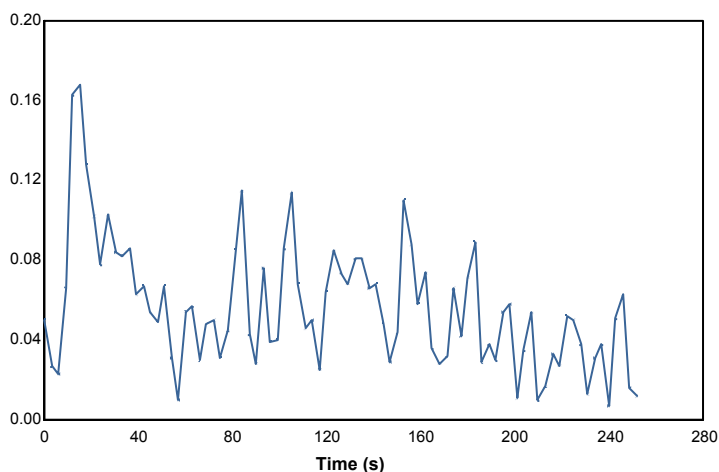
Phone (03) 9371 2400

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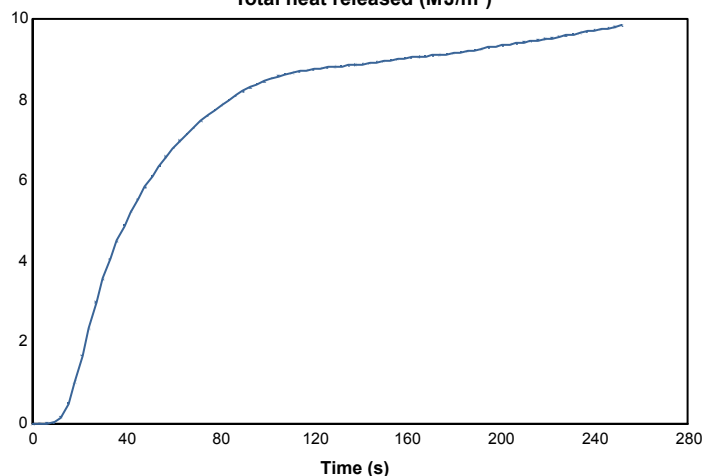
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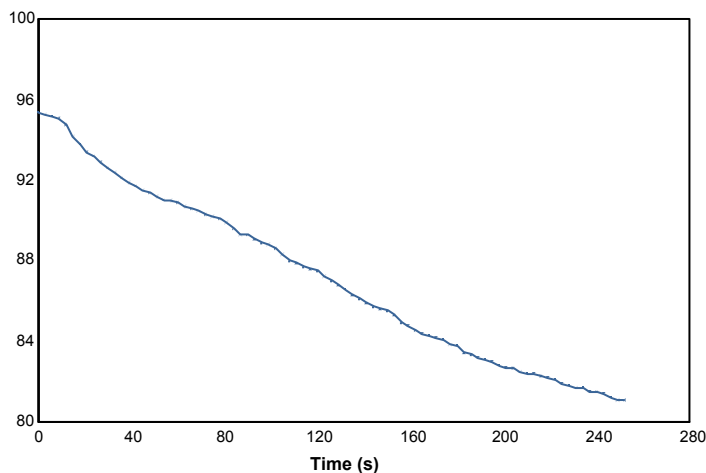
Mass loss rate (g/s)



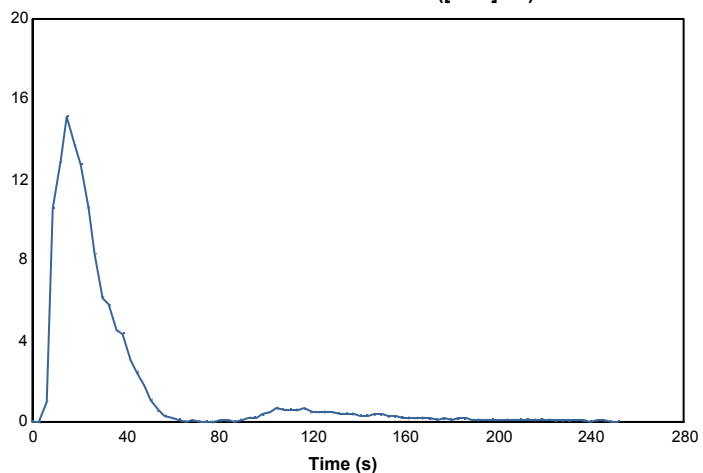
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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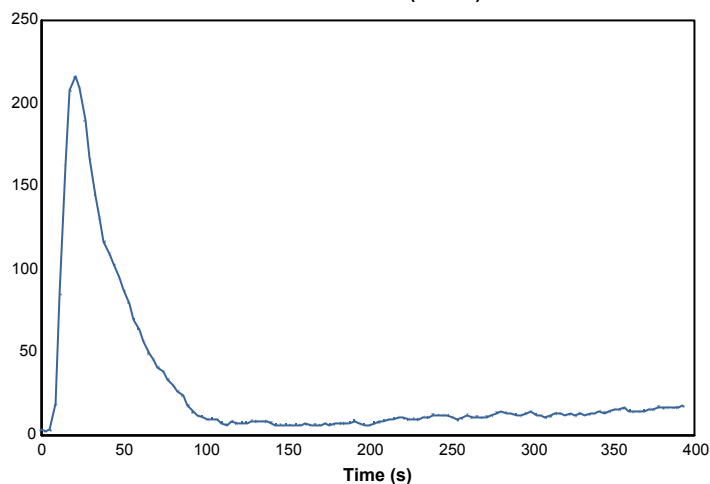
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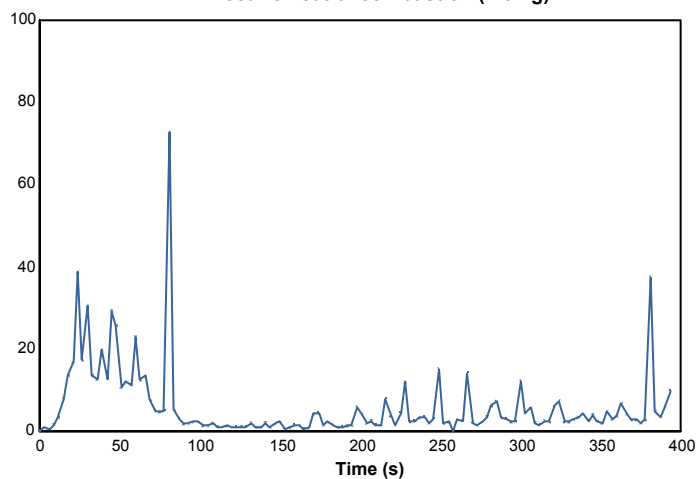
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**Specimen :** 2

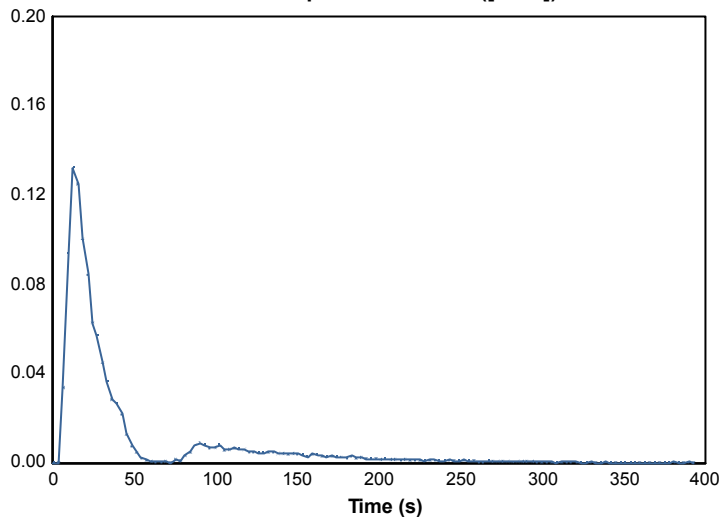
Heat release rate (kW/m<sup>2</sup>)



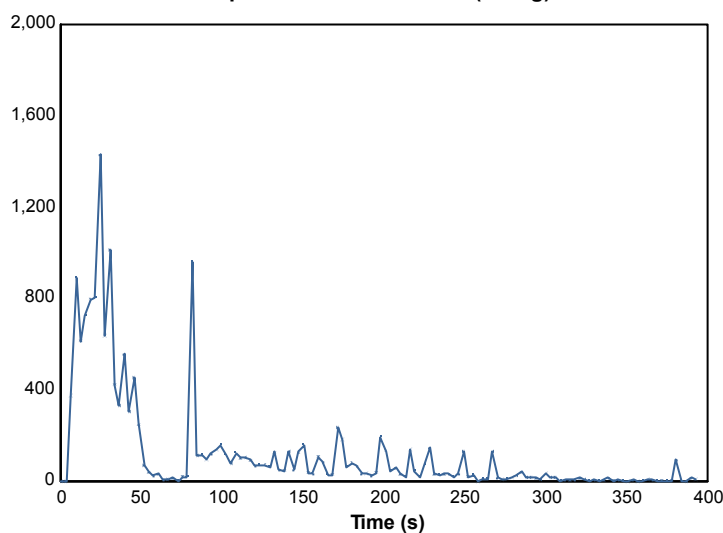
Effective heat of combustion (MJ/kg)



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



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



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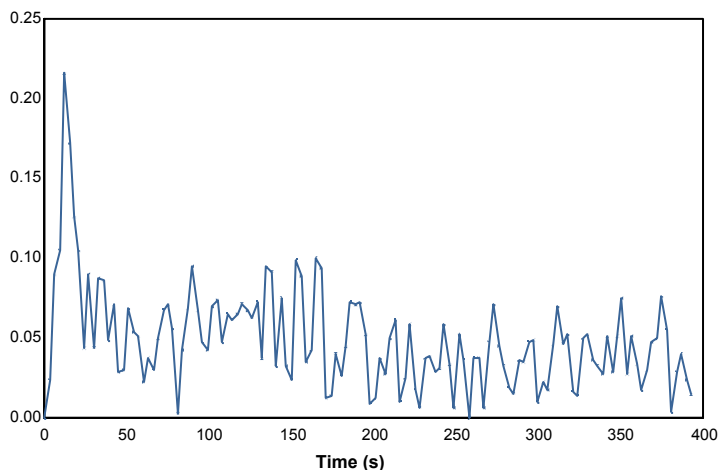
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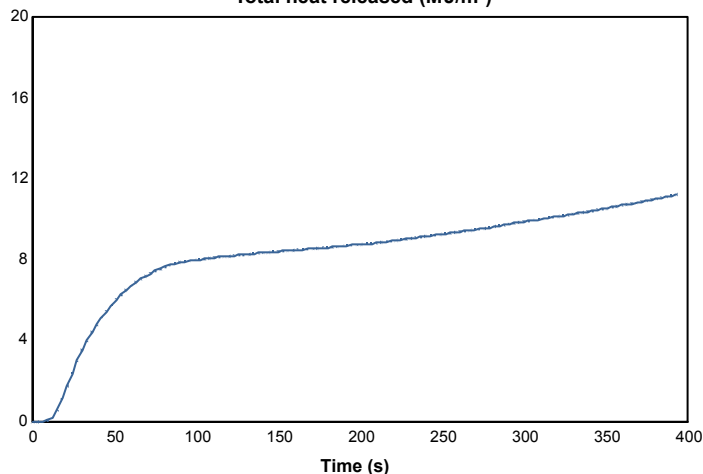
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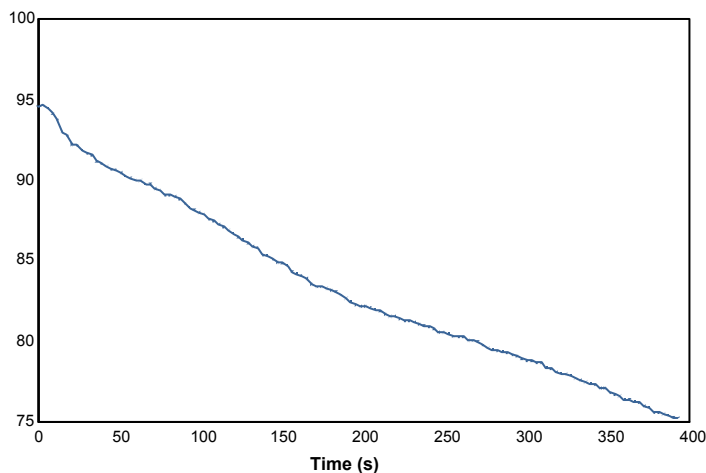
Mass loss rate (g/s)



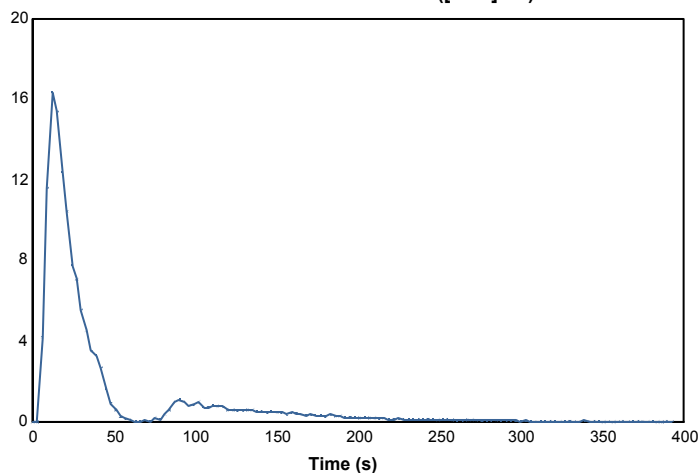
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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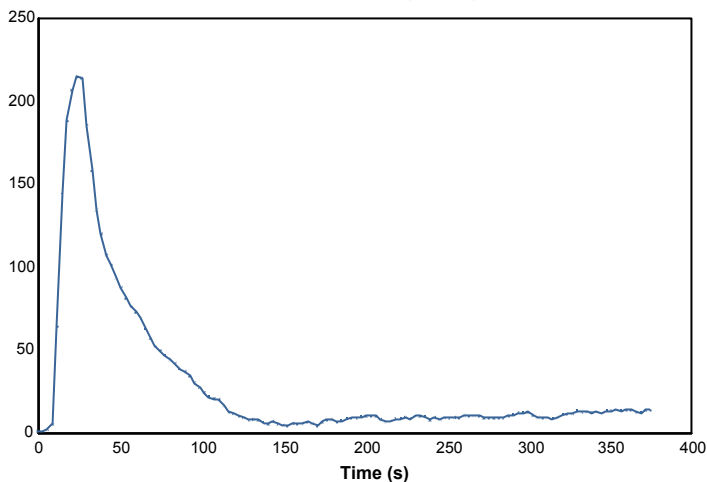
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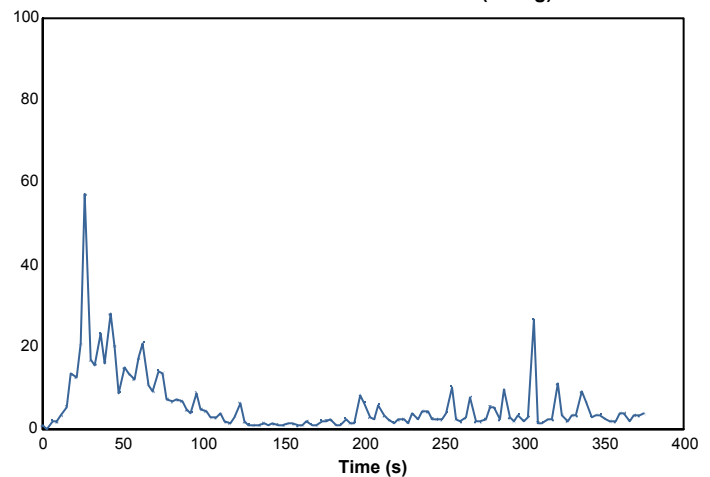
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**Specimen :** 3

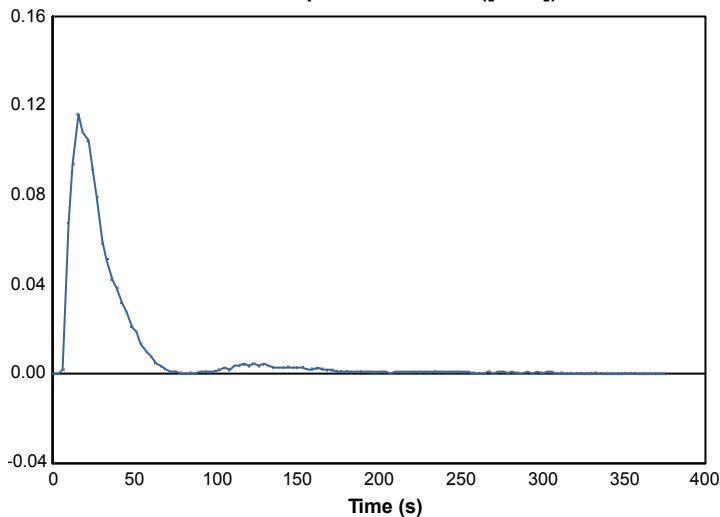
Heat release rate (kW/m<sup>2</sup>)



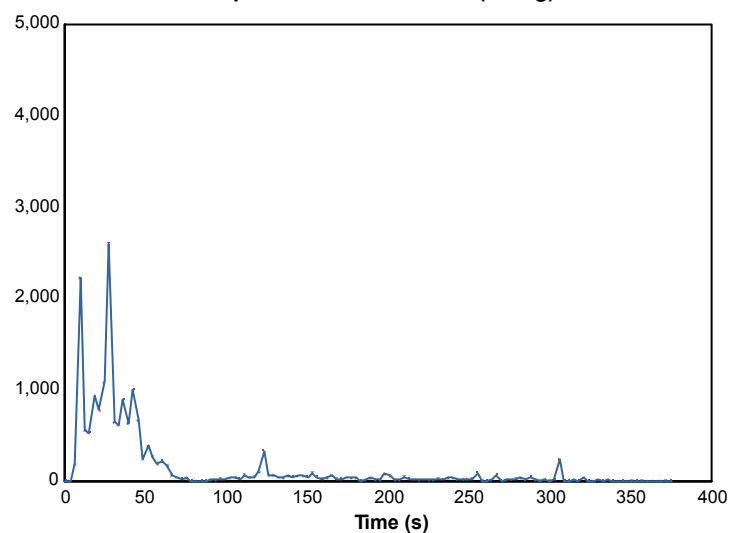
Effective heat of combustion (MJ/kg)



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



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



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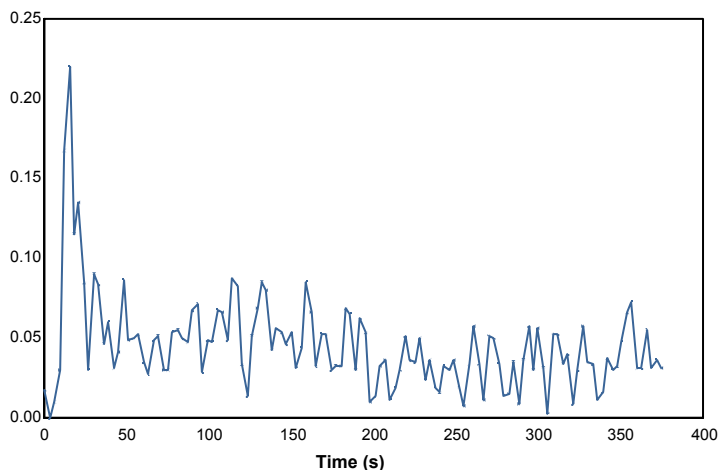
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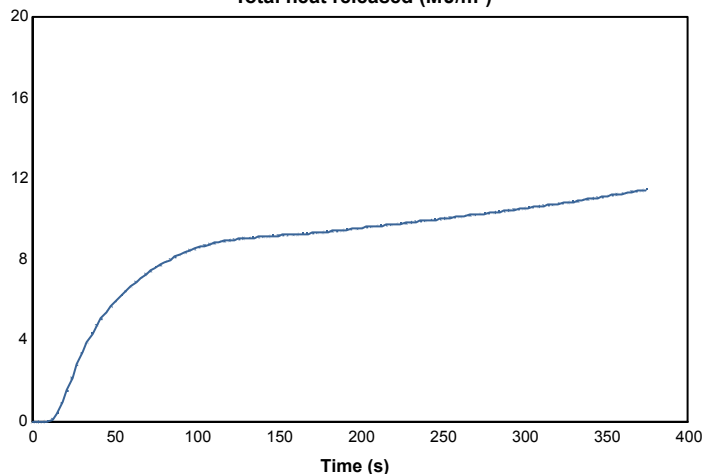
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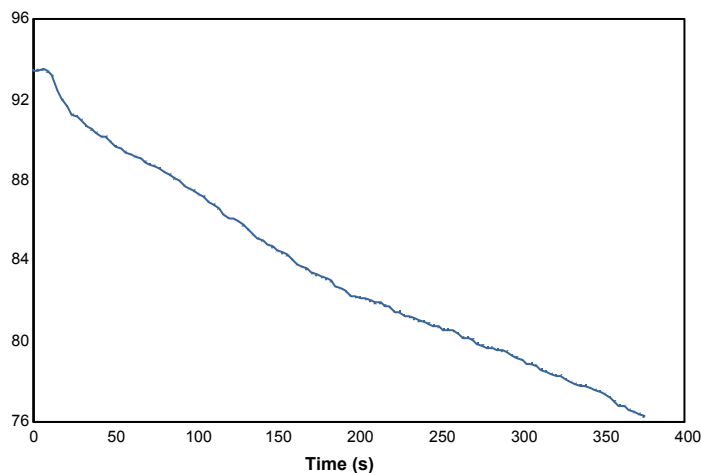
Mass loss rate (g/s)



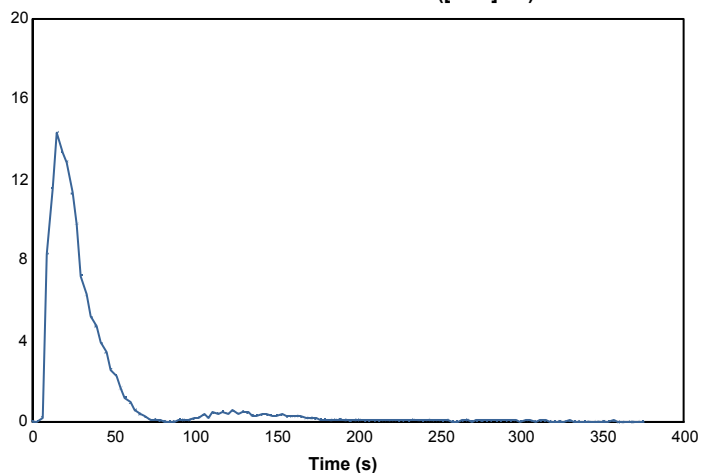
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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