

# 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 Fax (03) 9371 2499

## 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.

**Test Sponsor :** Gerflor Australasia Pty Ltd  
17 Cato Street  
Hawthorn East VIC 3123

**Test Number :** 19-006605  
**Issue Date :** 8/01/2020  
**Print Date :** 8/01/2020

**Sponsor Product** Clients Ref : "Mural Plus"  
Flexible panel  
Colour : Beige  
End Use : Commercial wall covering  
Nominal Composition : Homogenous PVC  
Nominal Mass per Unit Area/Density : 17.5kg/m2  
Nominal Thickness : 1mm

Product Group Number Classification : 1  
Average Specific Extinction Area : 108.5 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

40418

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## TEST REPORT

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**Print Date :** 8/01/2020

**Sample Description** Clients Ref : "Mural Plus"  
Flexible panel  
Colour : Beige  
End Use : Commercial wall covering  
Nominal Composition : Homogenous PVC  
Nominal Mass per Unit Area/Density : 17.5kg/m<sup>2</sup>  
Nominal Thickness : 1mm

### AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 08/01/2020  
Operator AWTA Test Operator 5  
Face Tested Face

#### Specimen

	1	2	3	Mean	
Average Heat Release Rate	37.8	30.7	32.1	33.5	kW/m <sup>2</sup>
Average Specific extinction area	122.7	84.6	118.2	108.5	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	28	26	24	26	sec
Test duration	448	492	472	471	sec
Peak heat release after ignition	80.9	74.9	86.2	80.7	kW/m <sup>2</sup>
Average heat at 60 s	70.0	66.9	47.1	61.3	kW/m <sup>2</sup>

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- Mechanical Testing  
- Performance & Approvals Testing

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: Accreditation No. 985  
: Accreditation No. 1356



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APPROVED SIGNATORY

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

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Average heat at 180 s	58.4	51.9	53.9	54.7	kW/m <sup>2</sup>
Average heat at 300 s	58.4	51.9	53.9	54.7	kW/m <sup>2</sup>
Total heat released	15.9	14.4	14.4	14.9	MJ/m <sup>2</sup>
Average effective heat of combustion	7.7	6.5	6.8	7.0	MJ/kg
Initial thickness	1	1	1	1.0	mm
Initial mass	103.5	103.2	101.7	102.8	g
Mass at sustained flaming	103.3	103.4	101.9	102.9	g
Mass remaining	86.9	85.2	84.5	85.5	g
Mass percentage pyrolysed	16.1	17.4	16.9	16.8	%
Mass loss	2.1	2.2	2.1	2.1	kg/m <sup>2</sup>
Average rate of mass loss	4.9	4.7	4.7	4.8	g/m <sup>2</sup> .s
Additional Observations	None				
Difficulties Encountered during Testing	None				

Samples were adhered to a substrate of 6mm thick cement sheet using Roberts 656 wallcovering adhesive 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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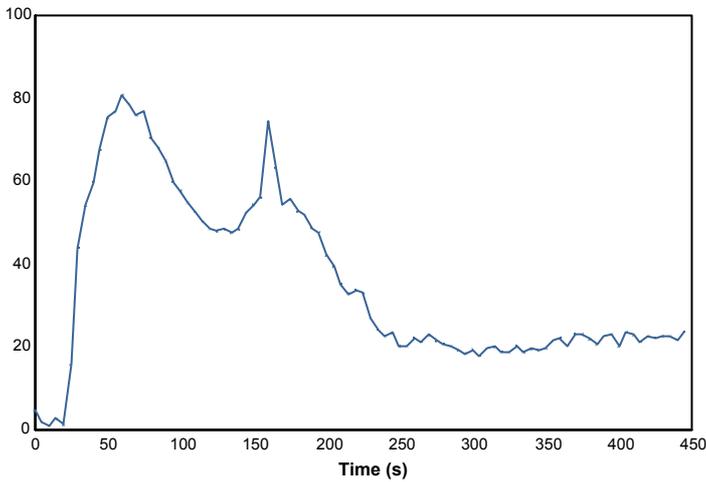
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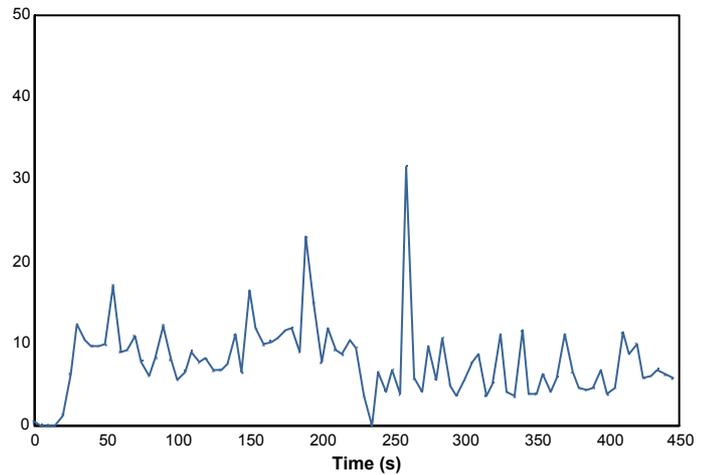
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**Print Date :** 8/01/2020

**Specimen :** 1

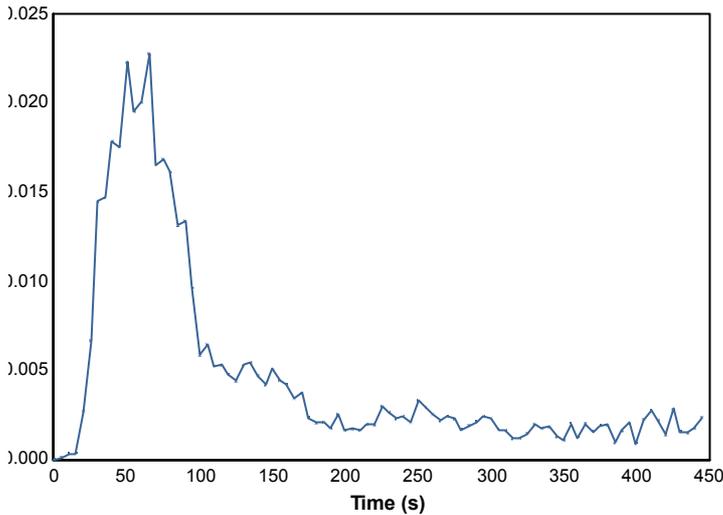
Heat release rate (kW/m<sup>2</sup>)



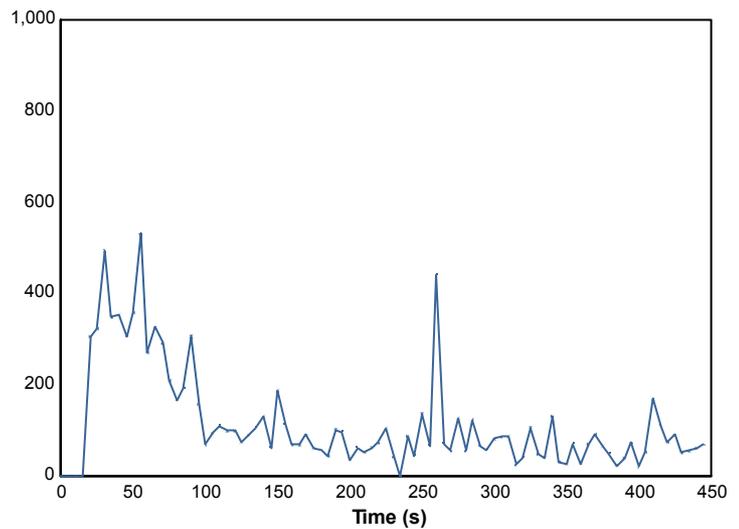
Effective heat of combustion (MJ/kg)



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



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



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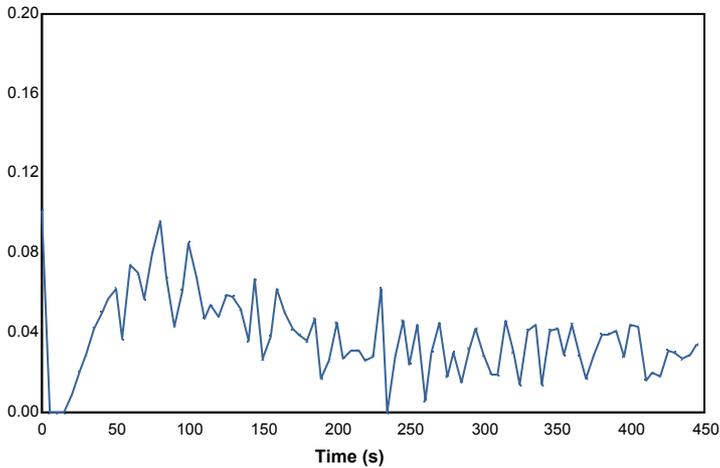
Phone (03) 9371 2400 Fax (03) 9371 2499

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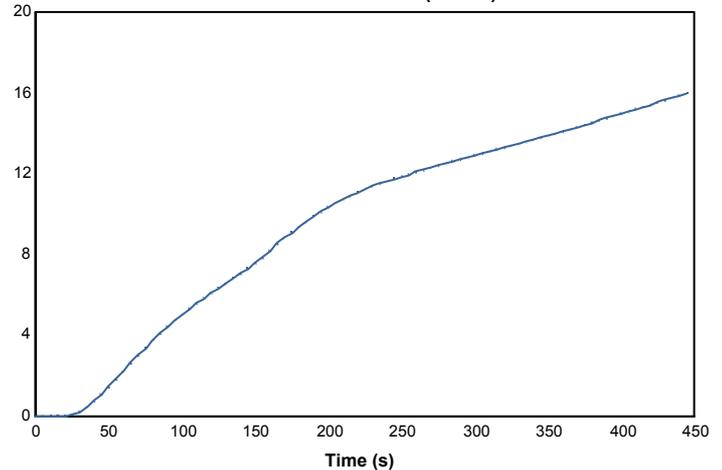
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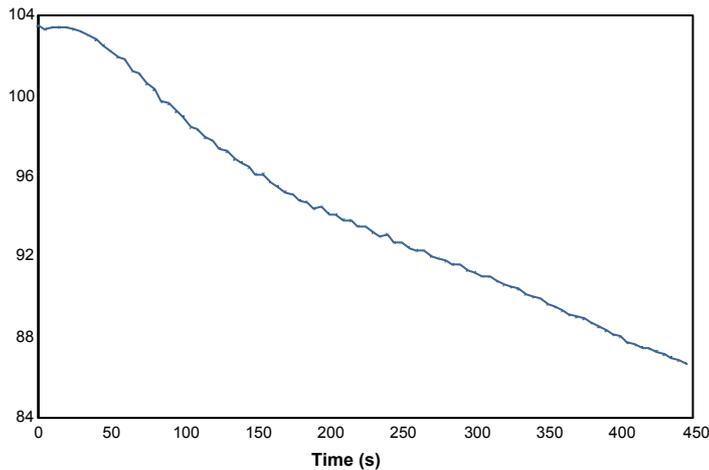
Mass loss rate (g/s)



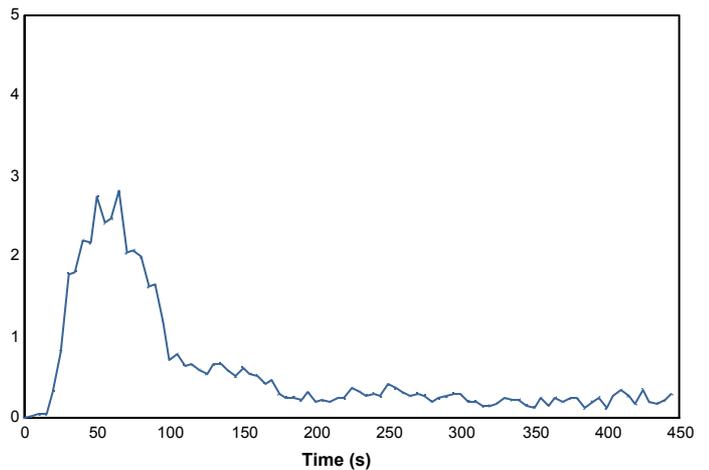
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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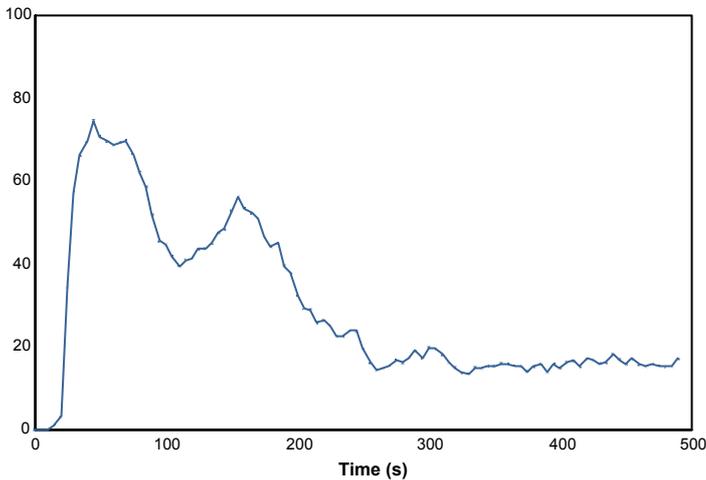
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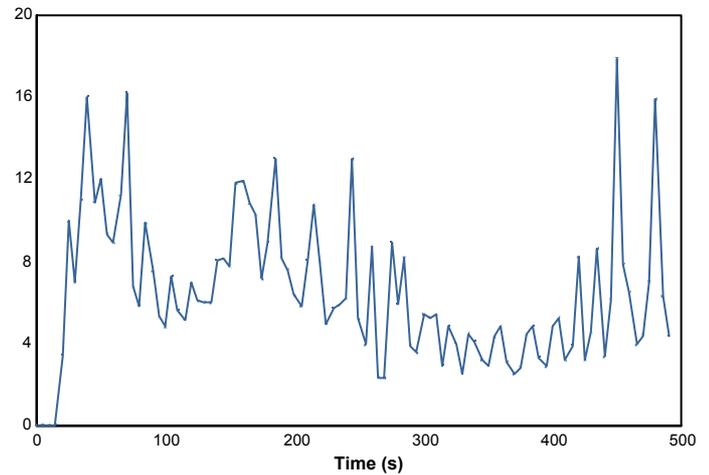
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**Specimen :** 2

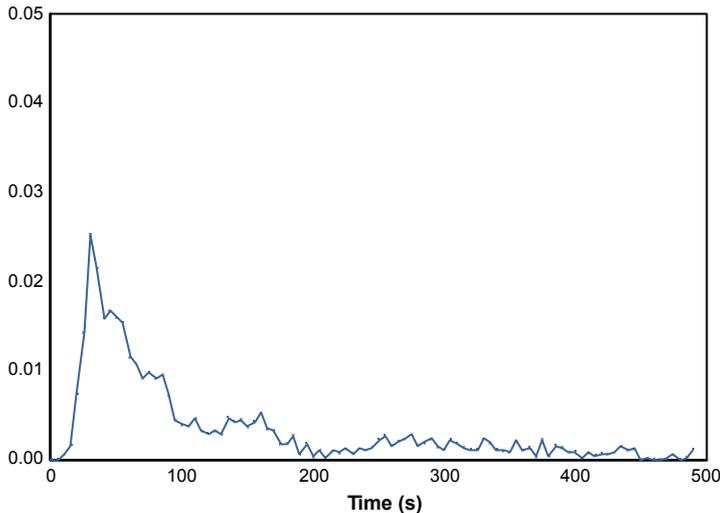
Heat release rate (kW/m<sup>2</sup>)



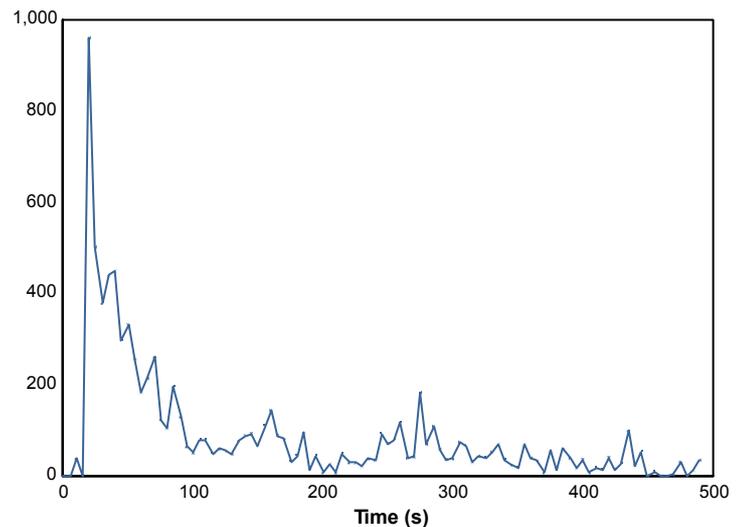
Effective heat of combustion (MJ/kg)



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



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



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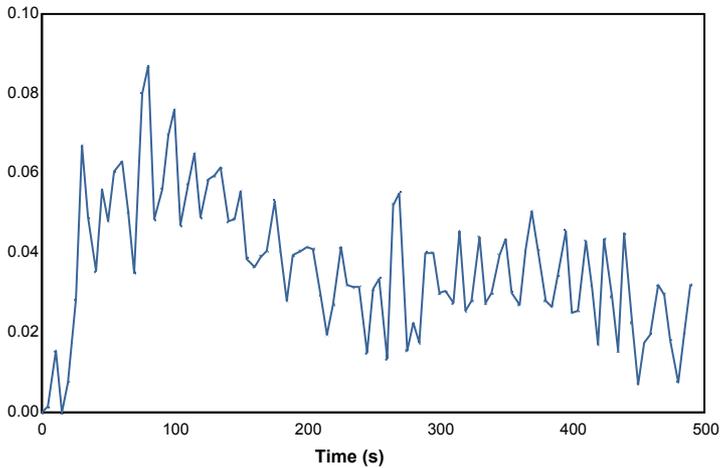
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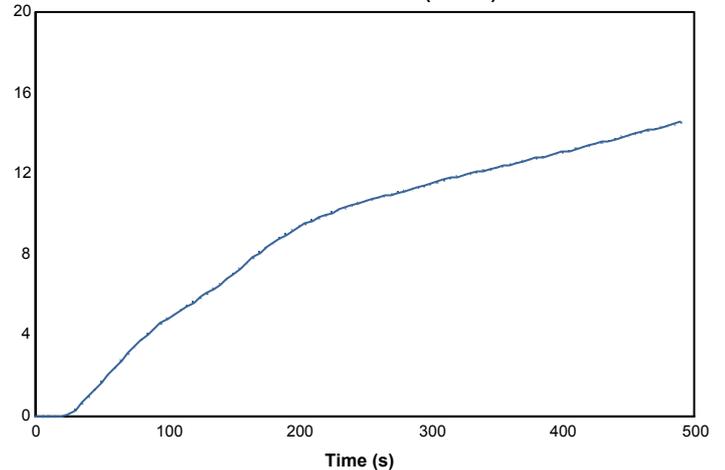
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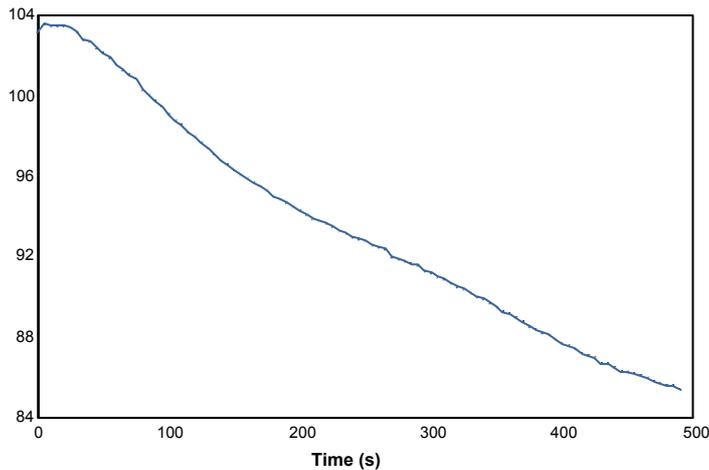
Mass loss rate (g/s)



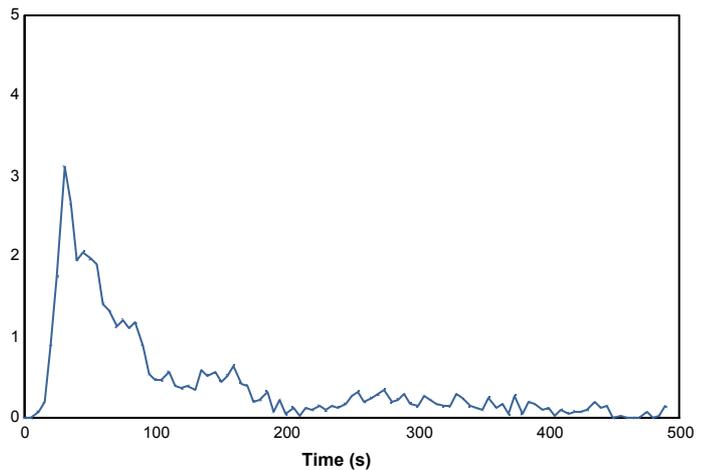
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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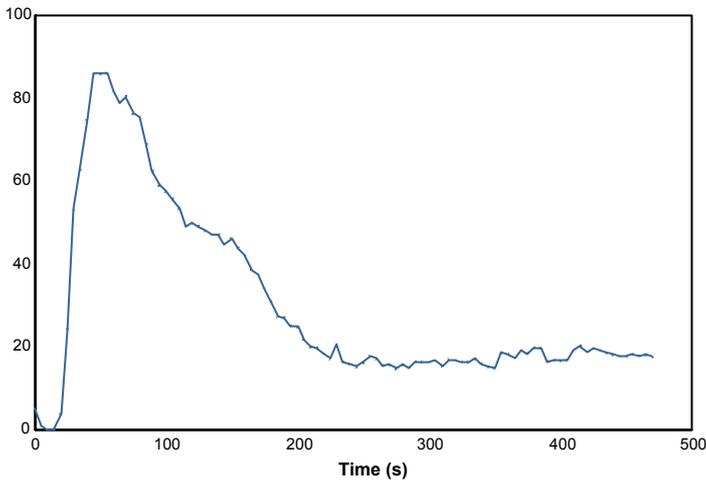
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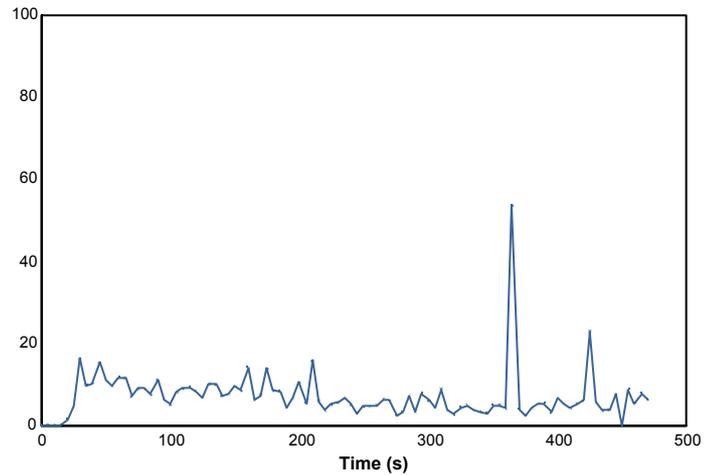
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**Specimen :** 3

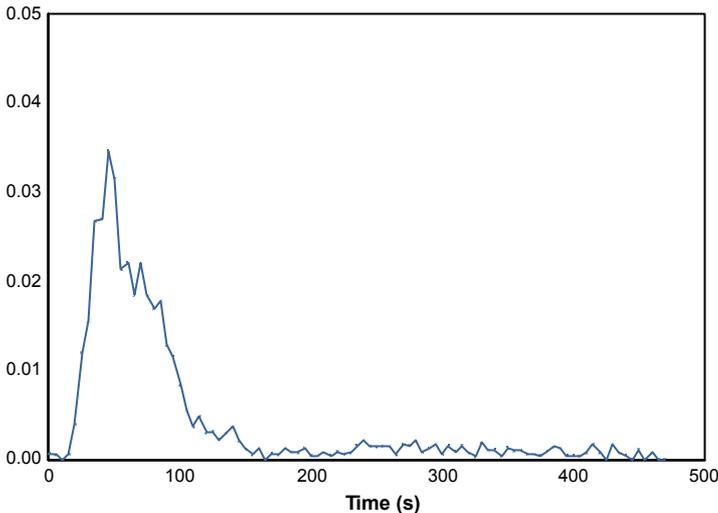
Heat release rate (kW/m<sup>2</sup>)



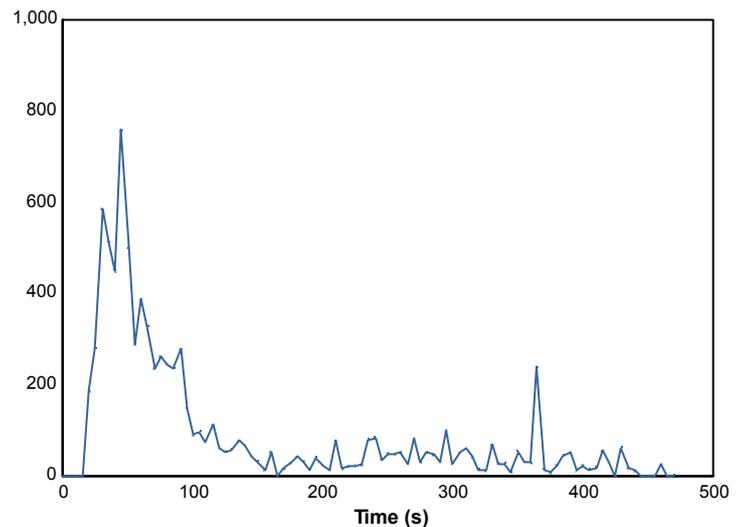
Effective heat of combustion (MJ/kg)



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



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



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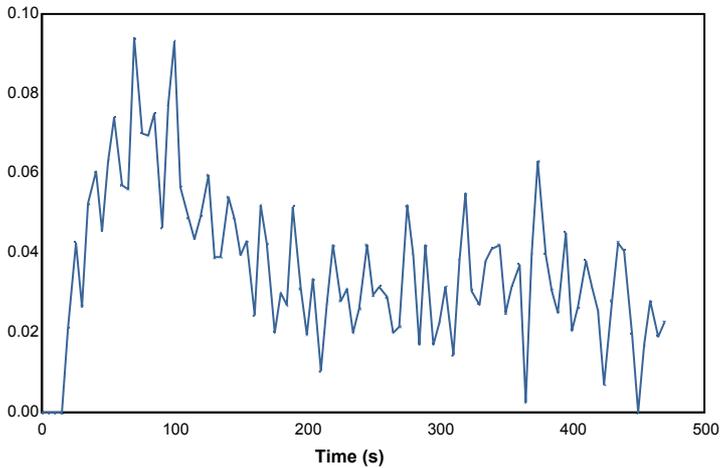
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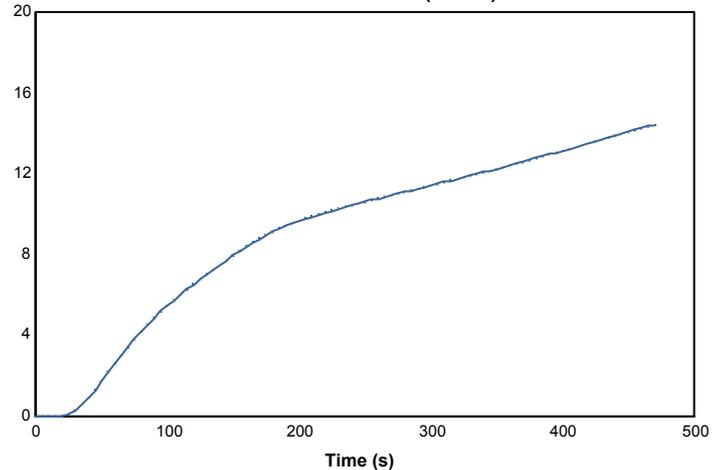
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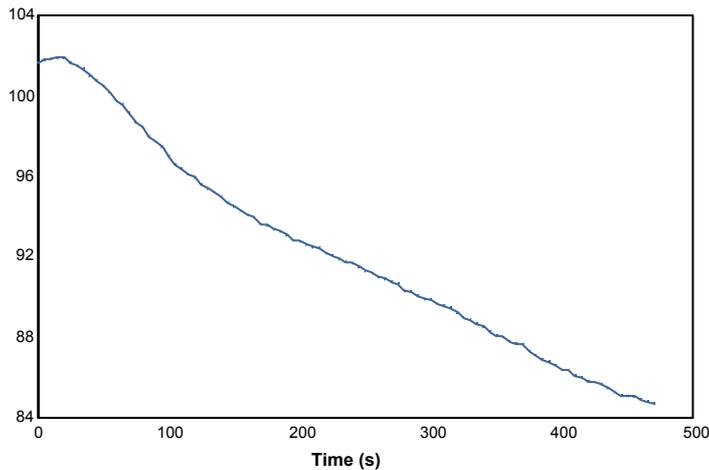
Mass loss rate (g/s)



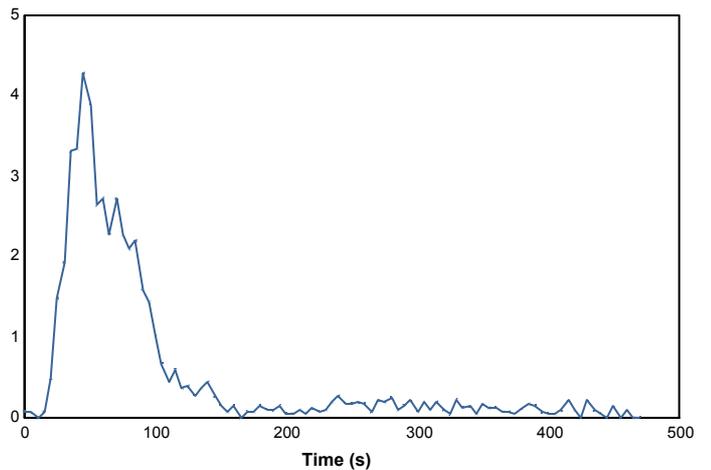
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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