

# 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 :** Woven Image Pty Ltd  
37-39 Chard Road  
Brookvale NSW 2100

**Test Number :** 20-000390  
**Issue Date :** 18/03/2020  
**Print Date :** 19/03/2020

**Sample Description** Clients Ref : "Global"  
Woven fabric with woven scrim  
Colour : Green  
End Use : Upholstery/Wrapped screens  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 450g/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 18/03/2020  
Operator AWTA Test Operator 3  
Face Tested Green face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	51.4	47.5	49.7	49.5	kW/m <sup>2</sup>
Average Specific extinction area	51.0	46.4	58.8	52.1	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	60	73	75	69	sec
Test duration	533	521	547	534	sec
Peak heat release after ignition	149.2	131.8	165.7	148.9	kW/m <sup>2</sup>
Average heat at 60 s	111.5	104.1	109.0	108.2	kW/m <sup>2</sup>

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

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Average heat at 180 s	83.1	80.9	77.9	80.6	kW/m <sup>2</sup>
Average heat at 300 s	69.7	64.9	66.5	67.0	kW/m <sup>2</sup>
Total heat released	24.3	21.2	23.5	23.0	MJ/m <sup>2</sup>
Average effective heat of combustion	10.4	9.2	10.9	10.1	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	83.9	89.1	84.8	85.9	g
Mass at sustained flaming	82.9	87.3	82.9	84.4	g
Mass remaining	65.0	70.1	67.3	67.5	g
Mass percentage pyrolysed	22.5	21.3	20.7	21.5	%
Mass loss	2.3	2.3	2.2	2.3	kg/m <sup>2</sup>
Average rate of mass loss	4.9	5.2	4.6	4.9	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 6mm thick cement sheet using Roberts 656 wallcovering adhesive prior to testing

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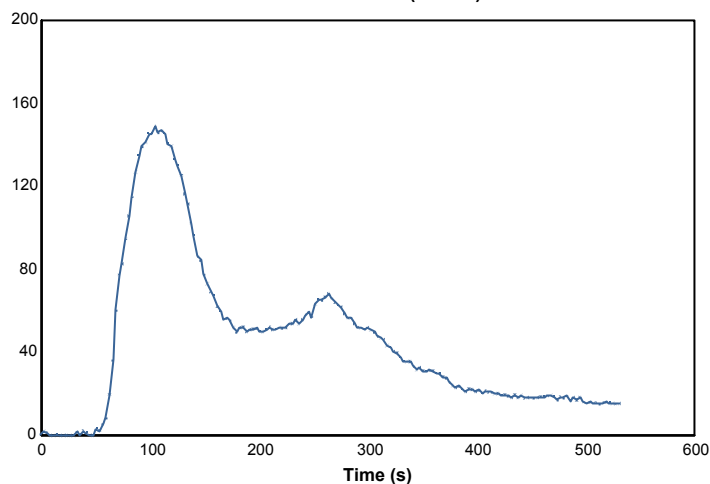
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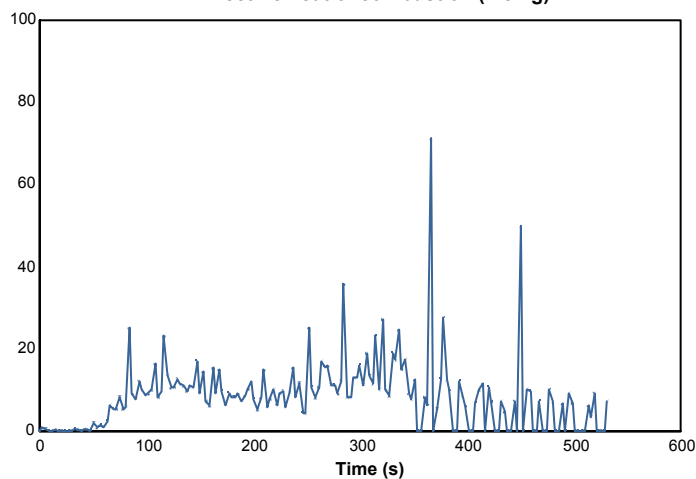
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**Issue Date :** 18/03/2020  
**Print Date :** 19/03/2020

**Specimen :** 1

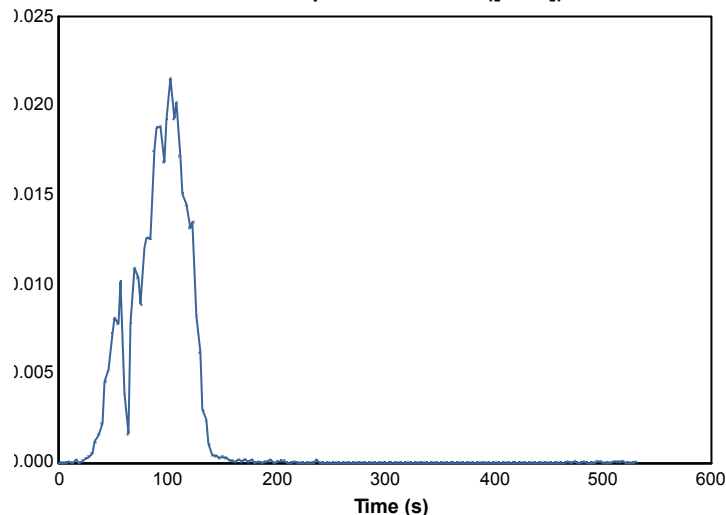
Heat release rate (kW/m<sup>2</sup>)



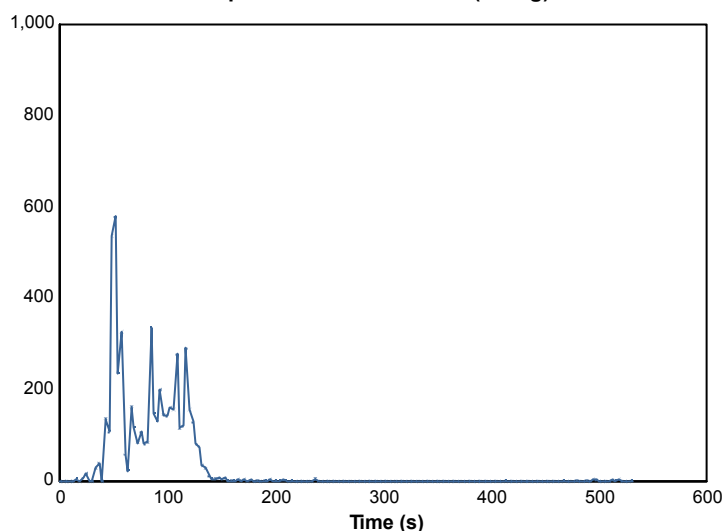
Effective heat of combustion (MJ/kg)



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



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



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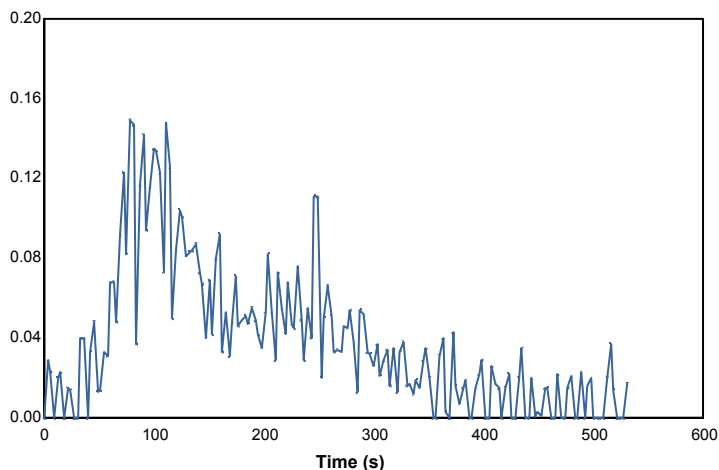
Phone (03) 9371 2400

## TEST REPORT

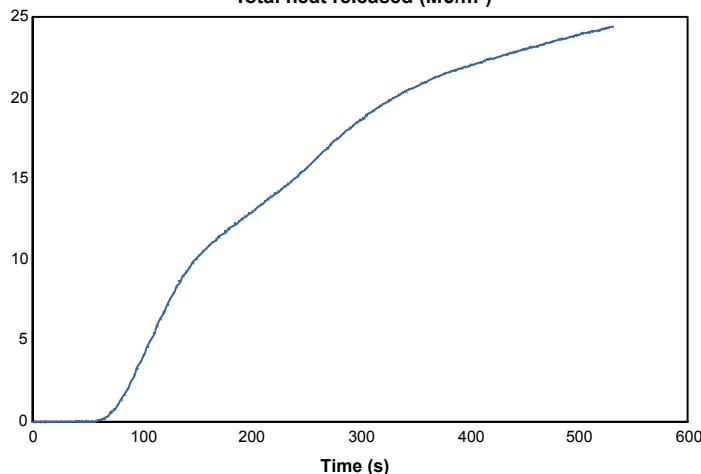
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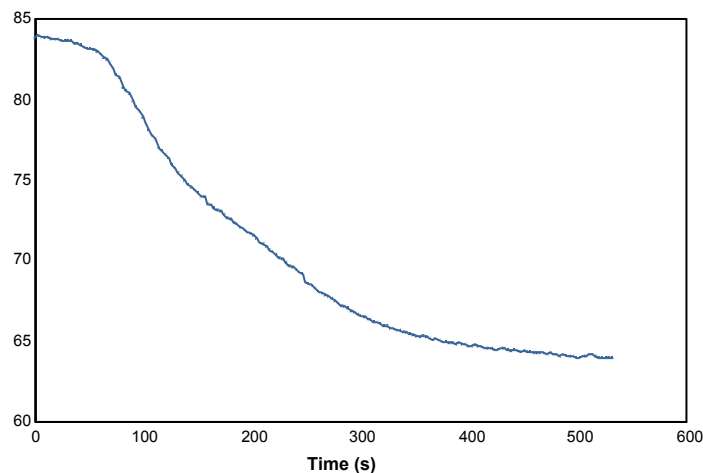
Mass loss rate (g/s)



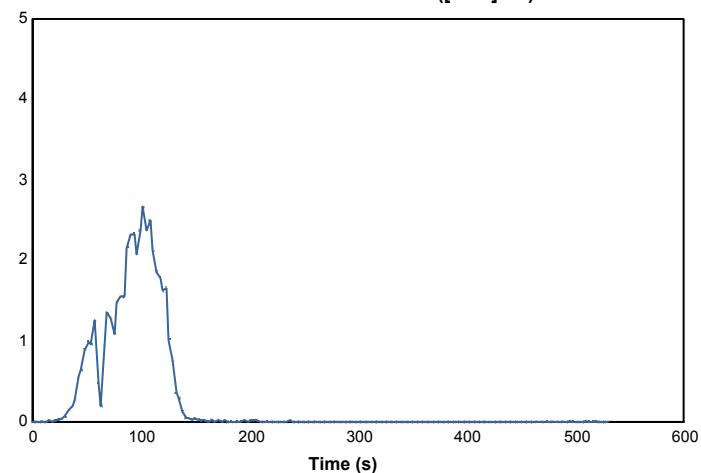
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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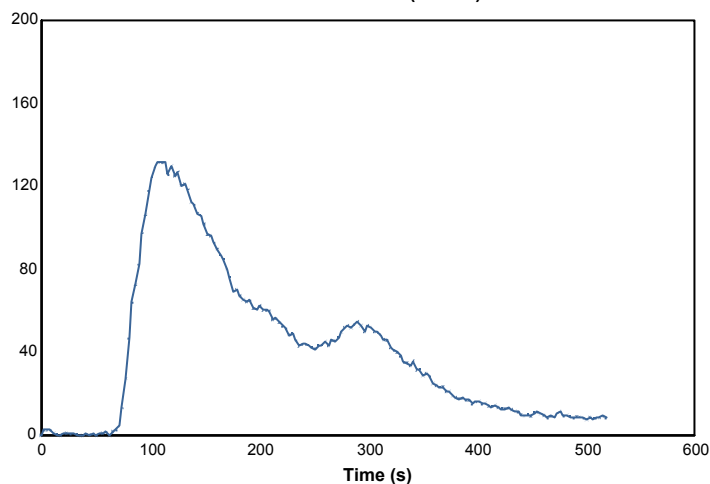
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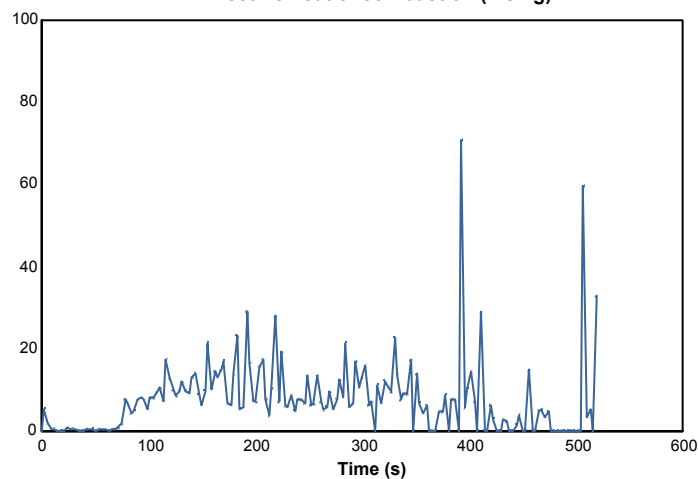
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**Specimen :** 2

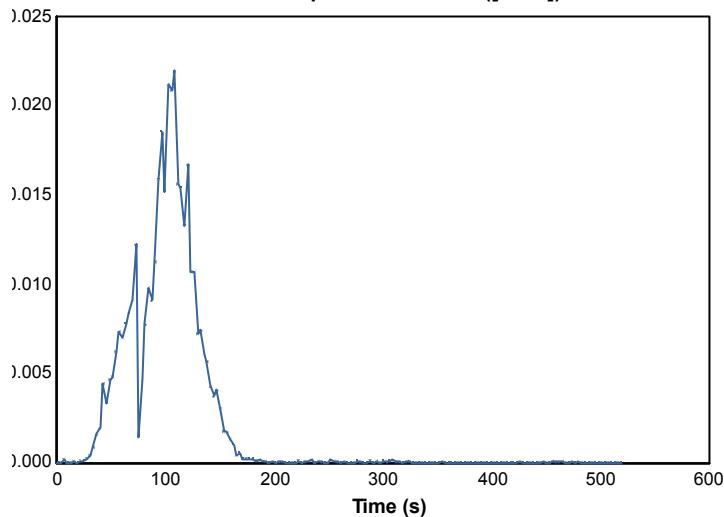
Heat release rate (kW/m<sup>2</sup>)



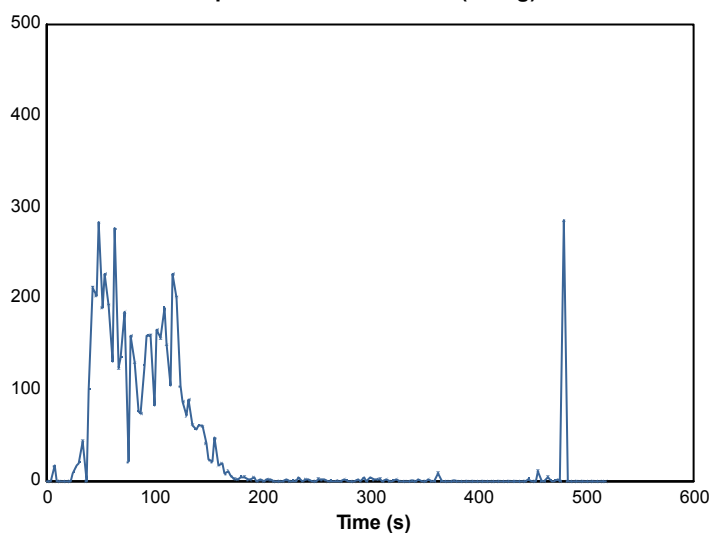
Effective heat of combustion (MJ/kg)



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



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



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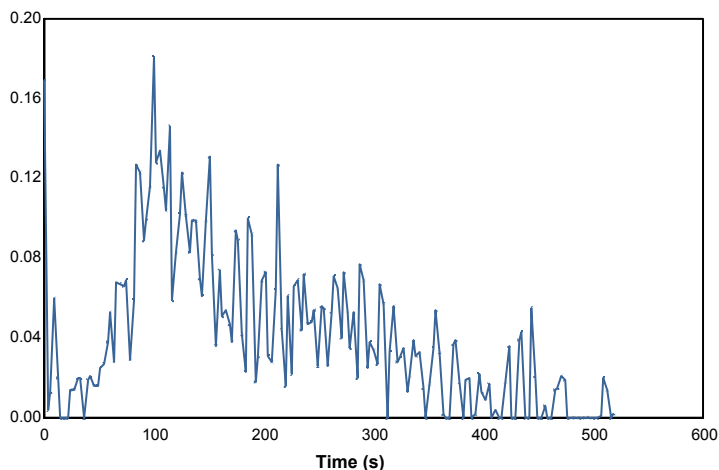
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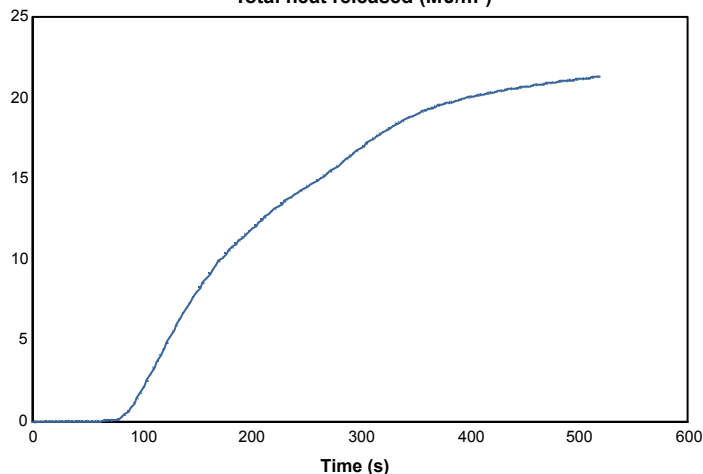
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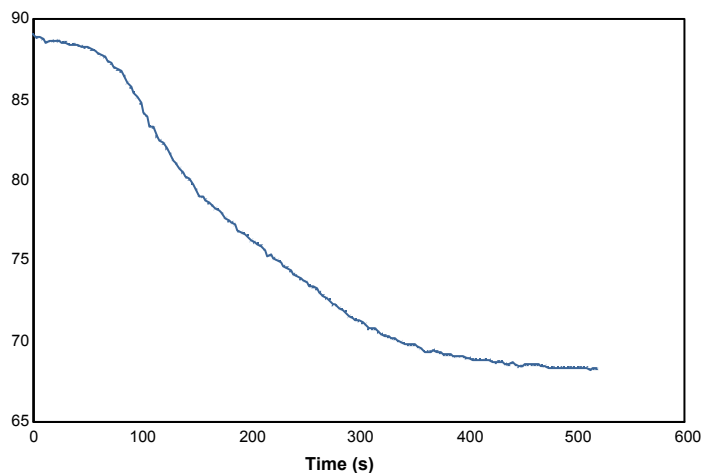
Mass loss rate (g/s)



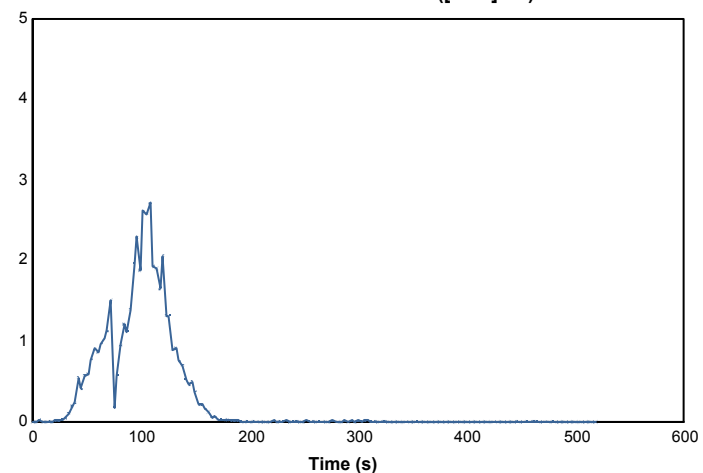
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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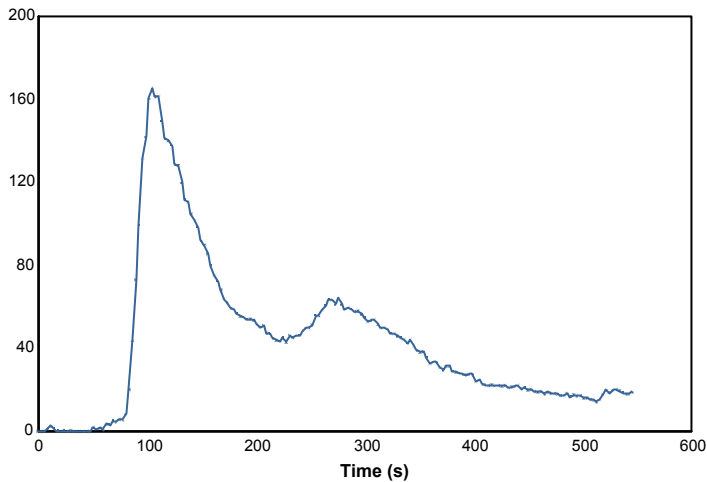
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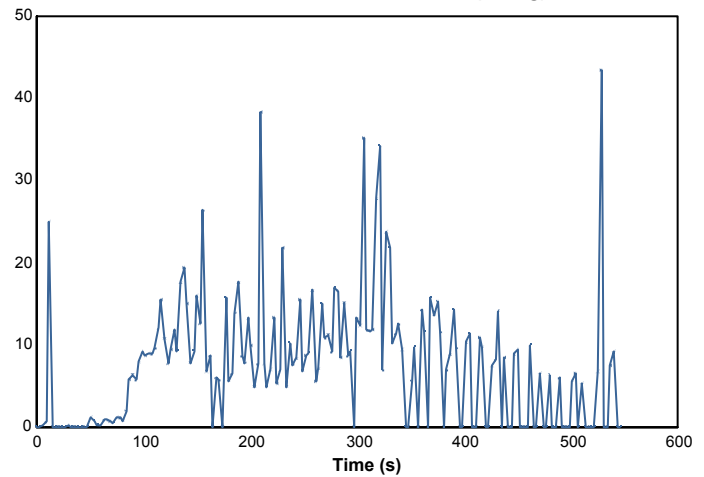
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**Specimen :** 3

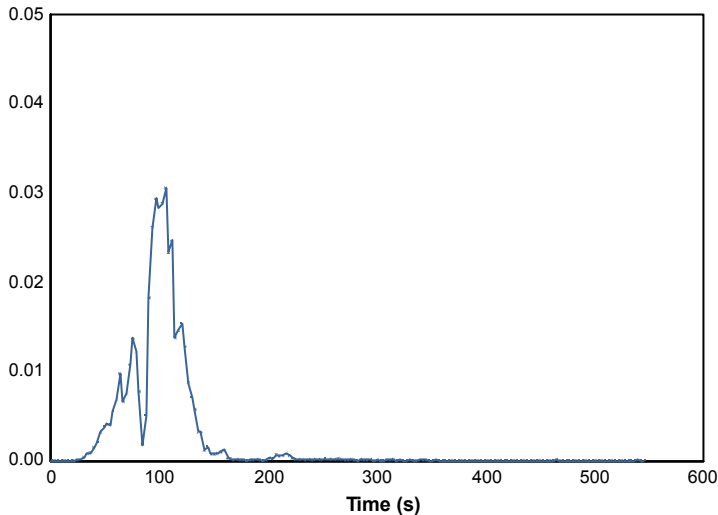
Heat release rate (kW/m<sup>2</sup>)



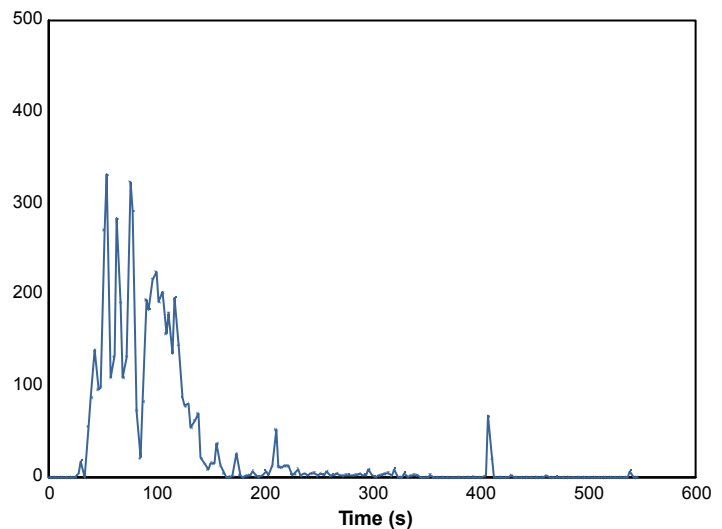
Effective heat of combustion (MJ/kg)



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



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



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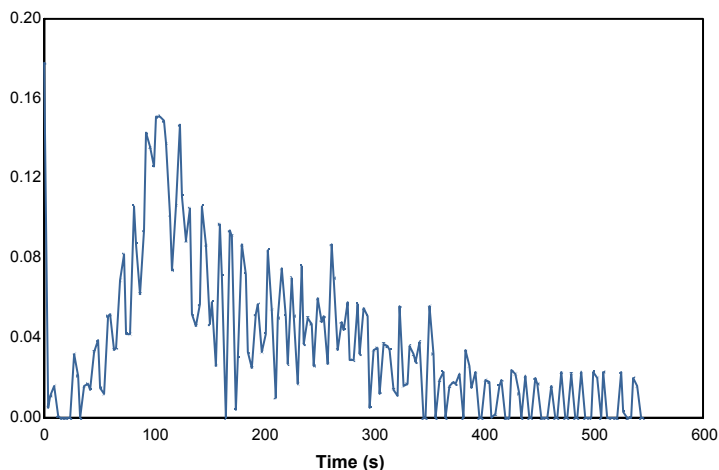
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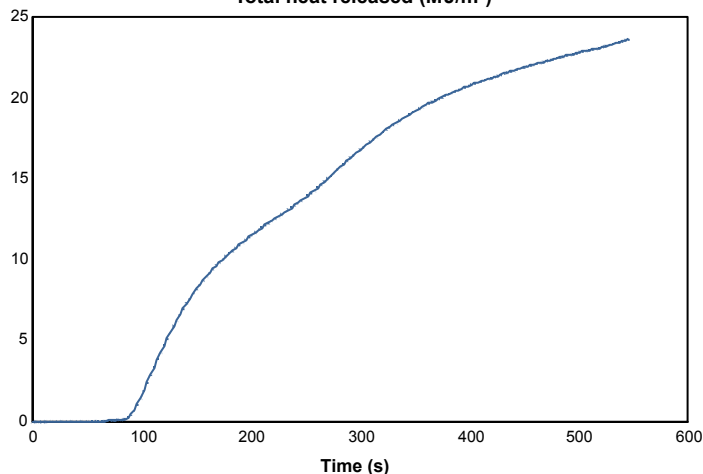
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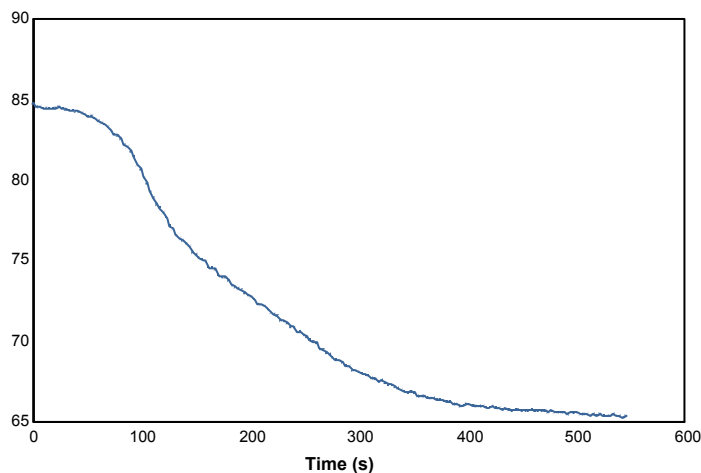
Mass loss rate (g/s)



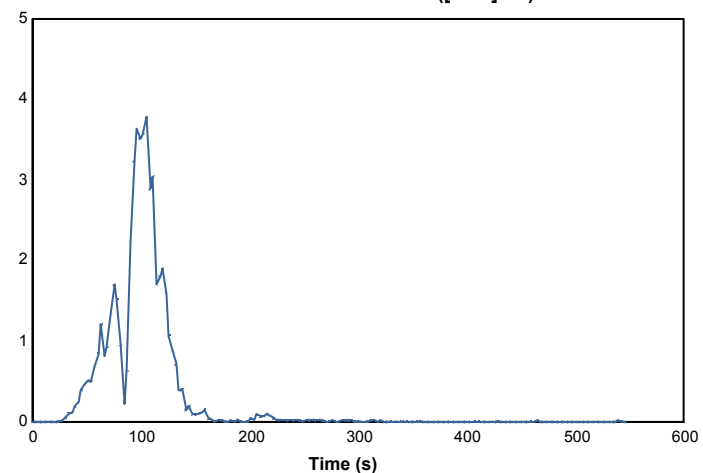
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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