

# 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 :** 19-002247  
**Issue Date :** 23/07/2019  
**Print Date :** 24/07/2019

**Sponsor Product** Clients Ref : "Mipolam Esprit"  
Vinyl Sheet  
Colour : Blue Speckled  
End Use : Commerical Wall Covering  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 2780g/m2  
Nominal Thickness : 2mm

Product Group Number Classification : 3

Average Specific Extinction Area : 301.4 m<sup>2</sup>/kg



Sean Bassett  
Division Manager

35694

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## TEST REPORT

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**Sample Description** Clients Ref : "Mipolam Esprit"  
Vinyl Sheet  
Colour : Blue Speckled  
End Use : Commerical Wall Covering  
Nominal Composition : PVC  
Nominal Mass per Unit Area/Density : 2780g/m2  
Nominal Thickness : 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 22/07/2019  
Operator AWTA Test Operator 3  
Face Tested Blue speckled face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	36.2	48.0	47.0	43.7	kW/m <sup>2</sup>
Average Specific extinction area	304.9	303.5	295.9	301.4	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	21	19	24	21	sec
Test duration	1023	833	760	872	sec
Peak heat release after ignition	131.4	134.3	135.2	133.6	kW/m <sup>2</sup>
Average heat at 60 s	116.1	108.2	117.5	114.0	kW/m <sup>2</sup>

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- Chemical Testing  
- Mechanical Testing  
- Performance & Approvals Testing

: Accreditation No. 983  
: Accreditation No. 985  
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Average heat at 180 s	101.1	102.6	101.7	101.8	kW/m <sup>2</sup>
Average heat at 300 s	86.1	90.4	86.2	87.5	kW/m <sup>2</sup>
Total heat released	36.3	39.1	34.6	36.7	MJ/m <sup>2</sup>
Average effective heat of combustion	9.9	11.0	10.0	10.3	MJ/kg
Initial thickness	8	8	8	8.0	mm
Initial mass	116.6	114.1	113.9	114.9	g
Mass at sustained flaming	116.6	114.1	113.9	114.9	g
Mass remaining	86.8	85.5	85.8	86.0	g
Mass percentage pyrolysed	25.6	25.1	24.7	25.1	%
Mass loss	3.7	3.5	3.5	3.6	kg/m <sup>2</sup>
Average rate of mass loss	3.7	4.4	4.7	4.2	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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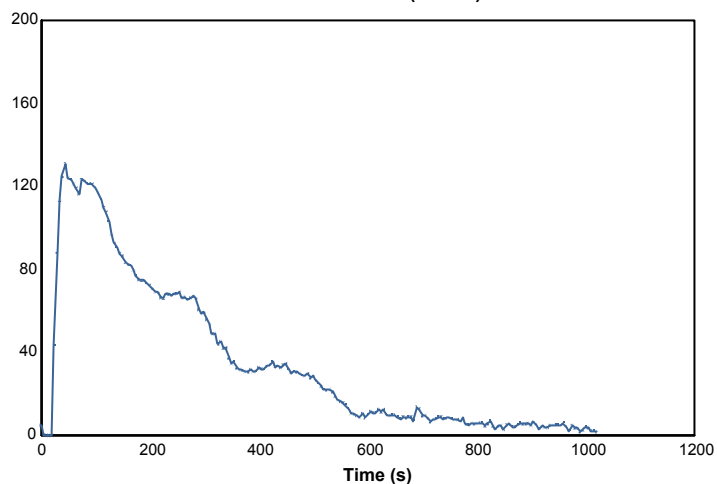
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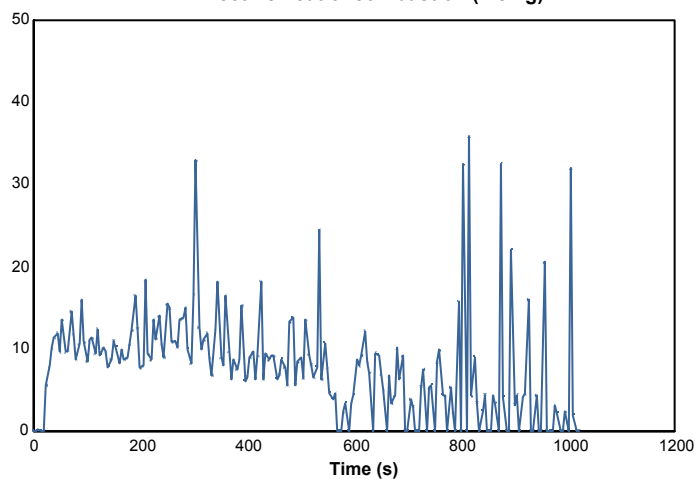
**Test Number :** 19-002247  
**Issue Date :** 23/07/2019  
**Print Date :** 24/07/2019

**Specimen :** 1

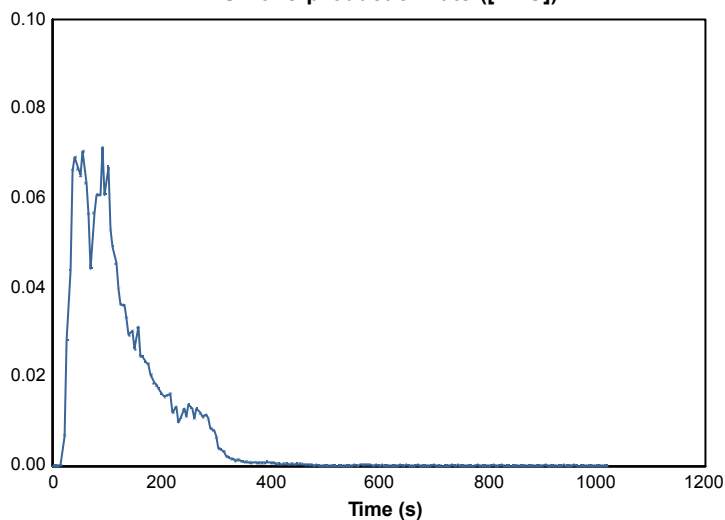
Heat release rate (kW/m<sup>2</sup>)



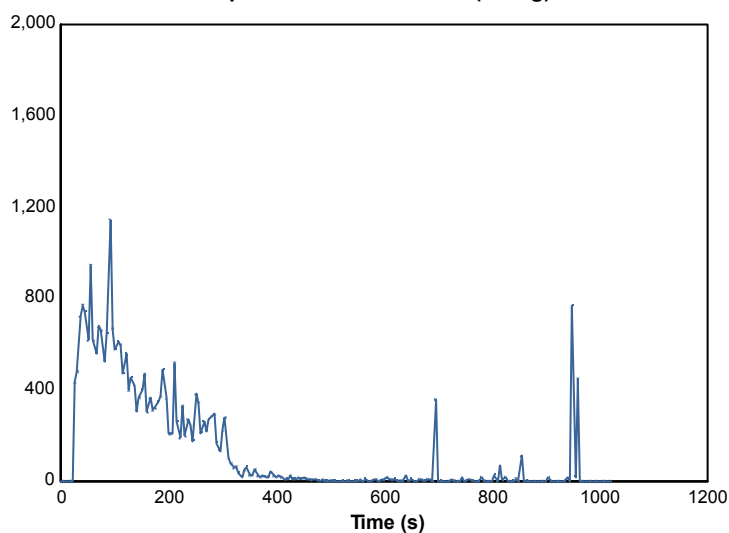
Effective heat of combustion (MJ/kg)



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



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



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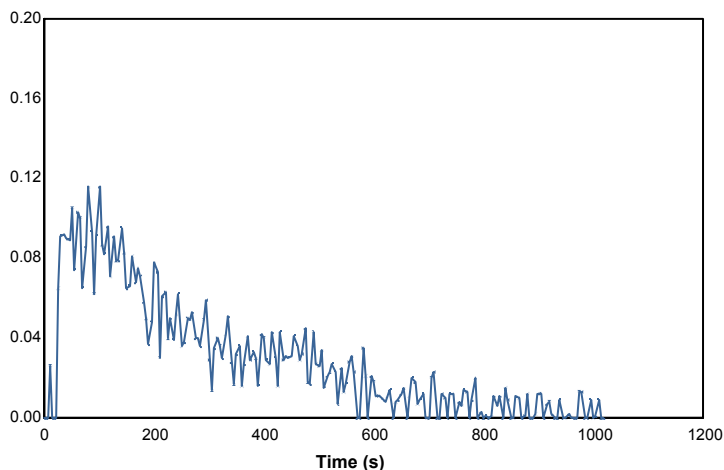
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

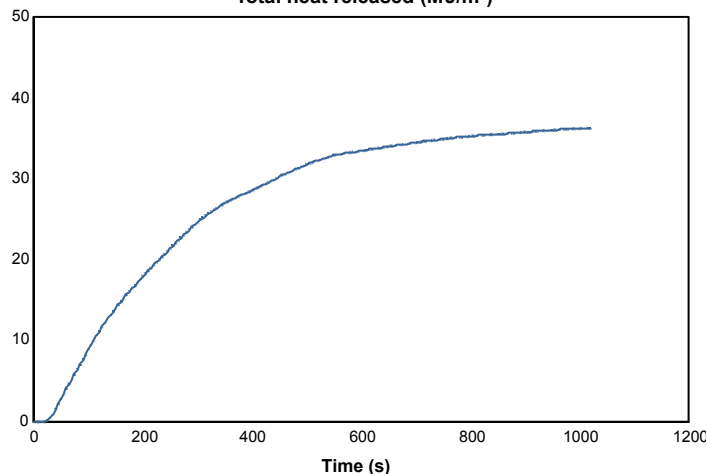
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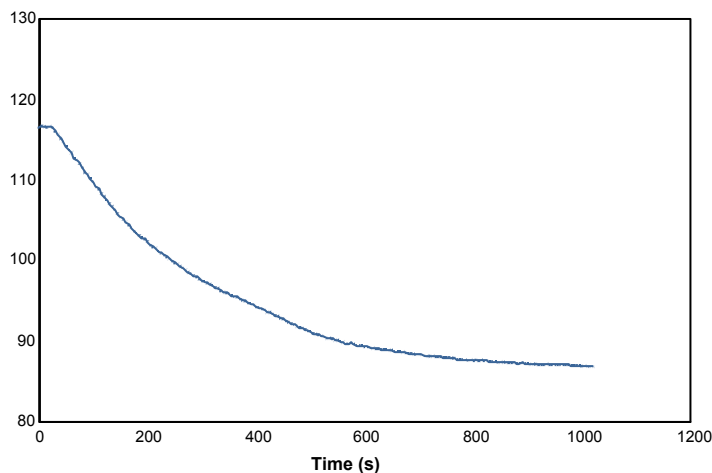
Mass loss rate (g/s)



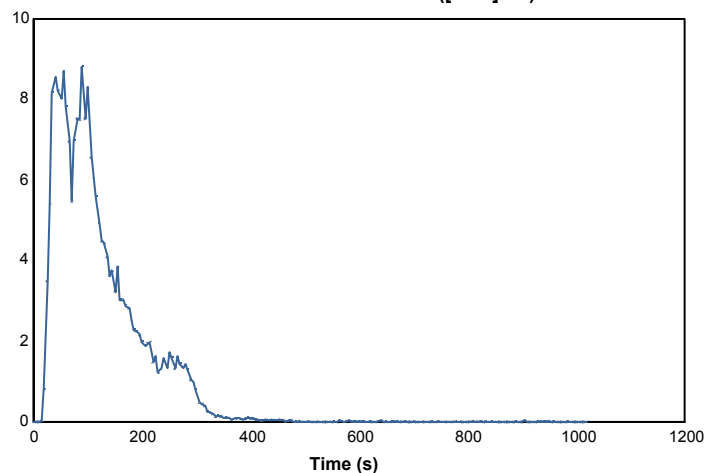
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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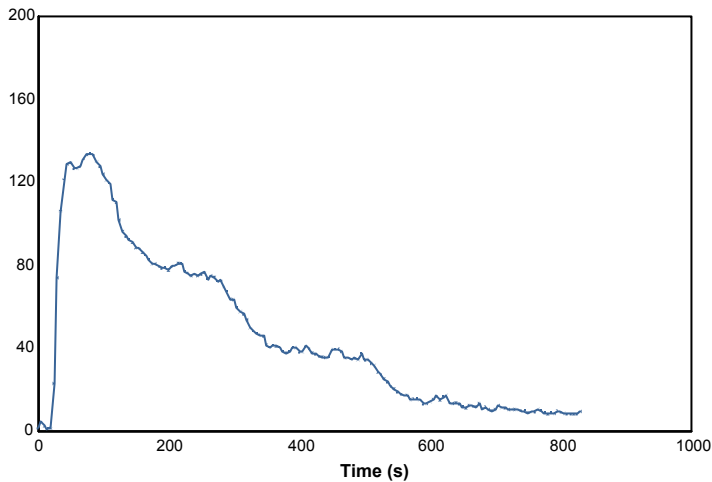
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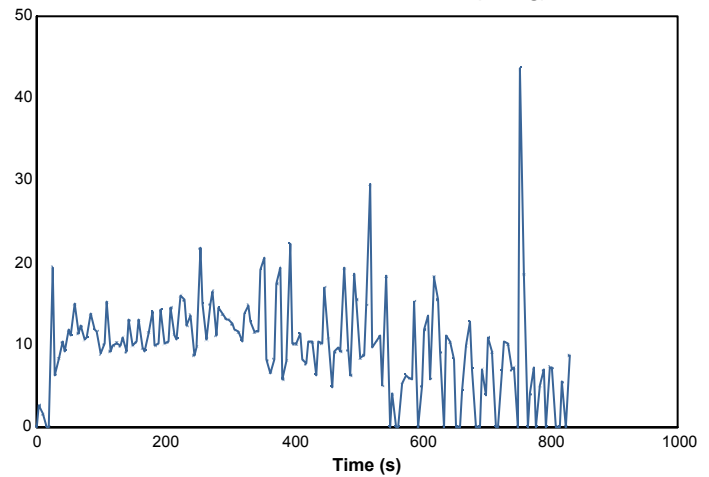
**Test Number :** 19-002247  
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**Print Date :** 24/07/2019

**Specimen :** 2

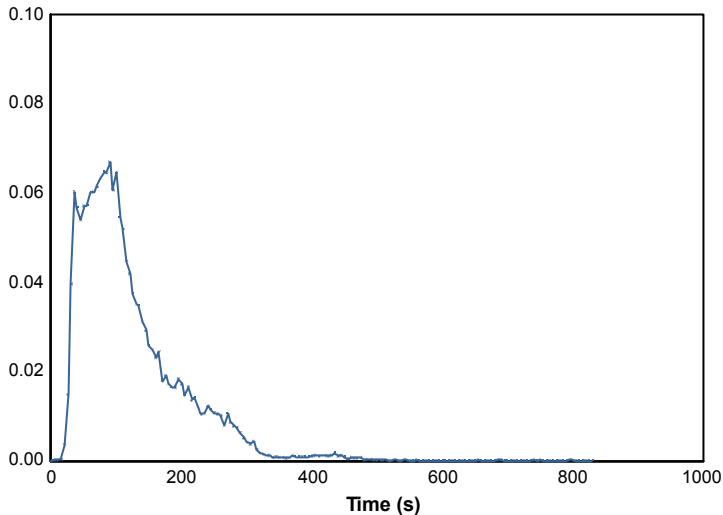
Heat release rate (kW/m<sup>2</sup>)



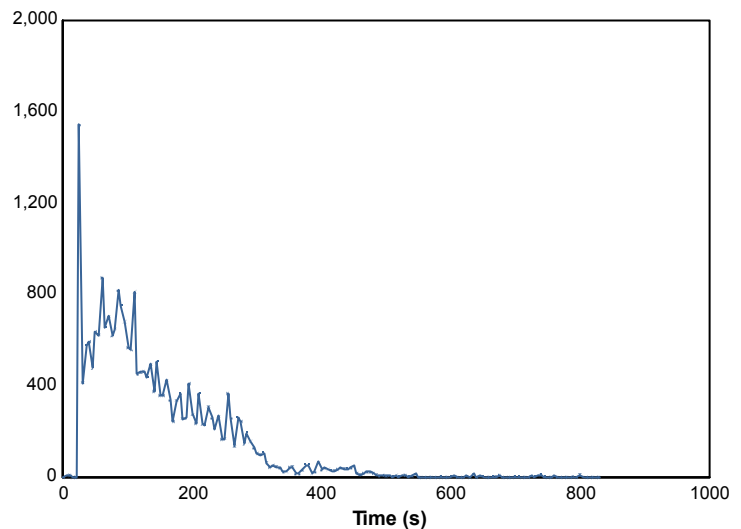
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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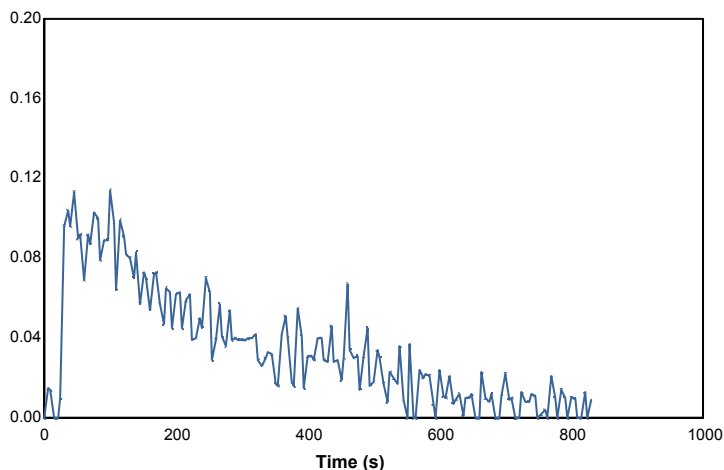
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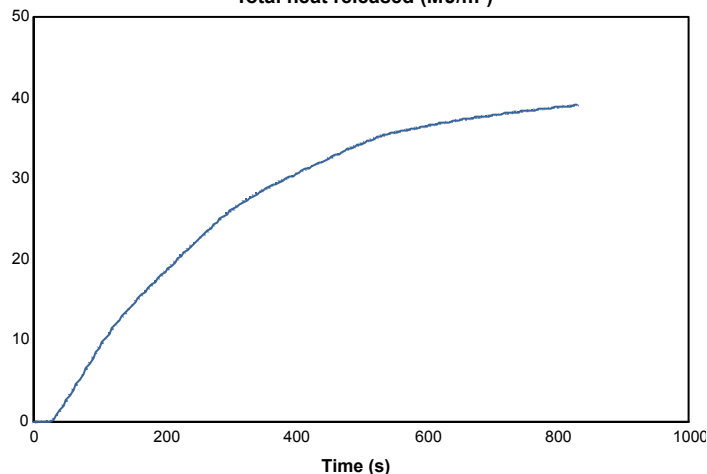
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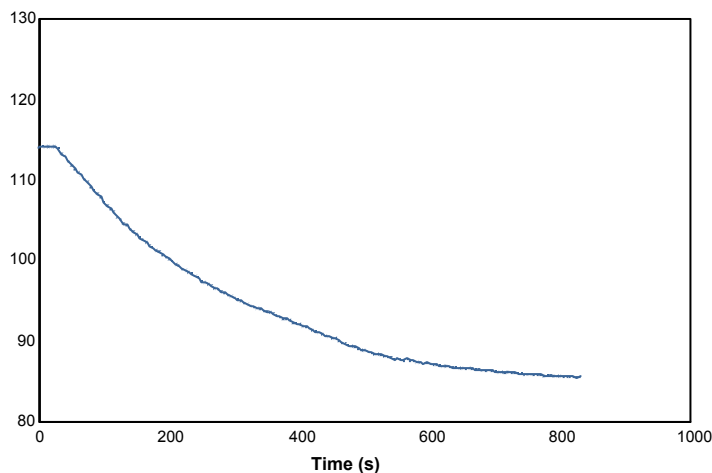
Mass loss rate (g/s)



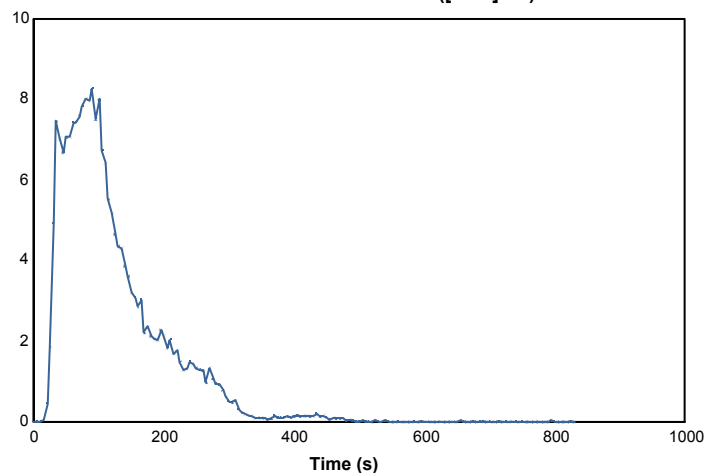
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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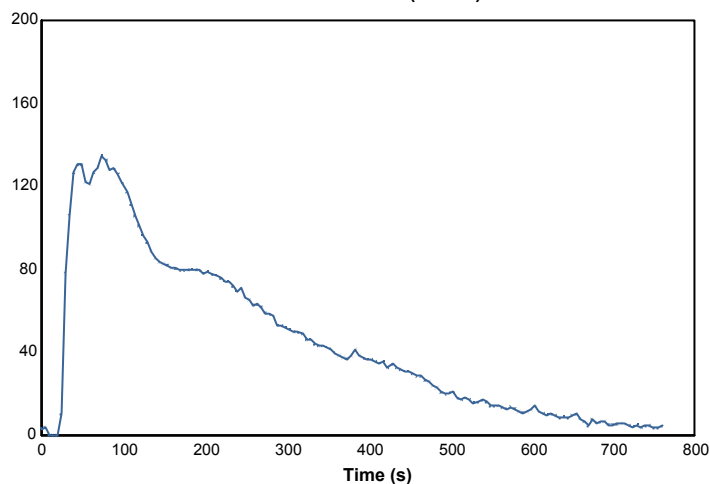
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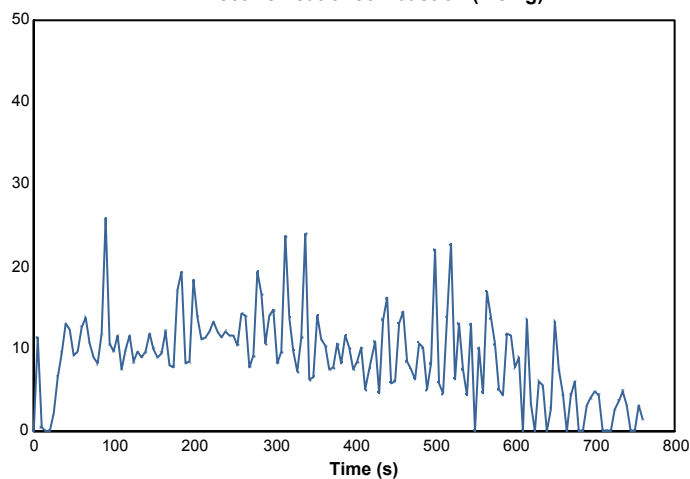
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**Specimen :** 3

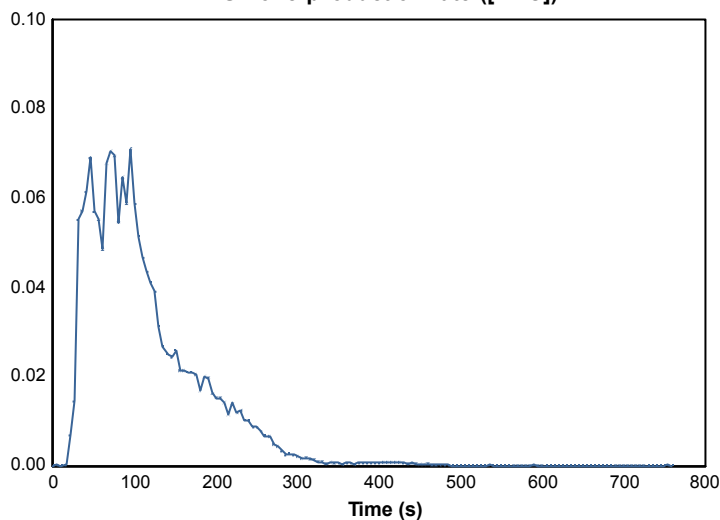
Heat release rate (kW/m<sup>2</sup>)



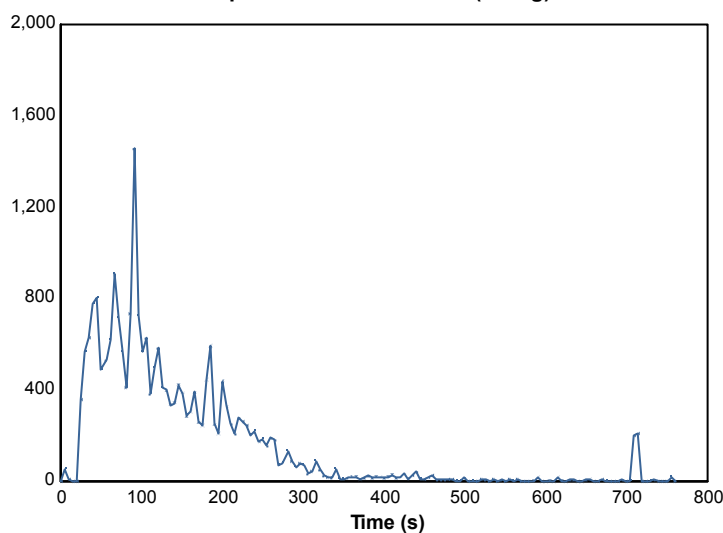
Effective heat of combustion (MJ/kg)



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



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



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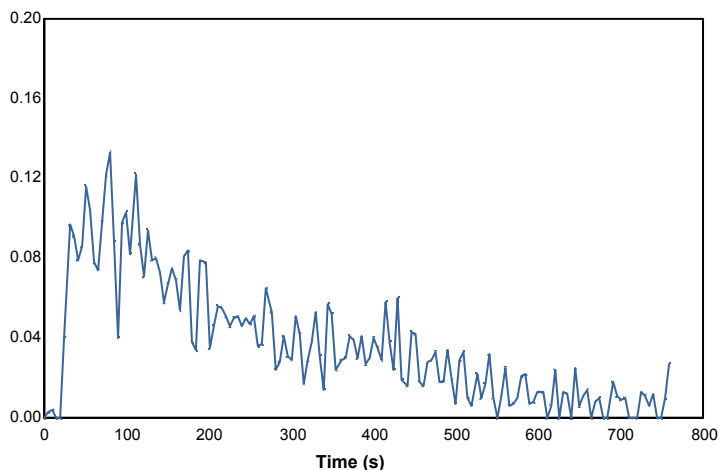
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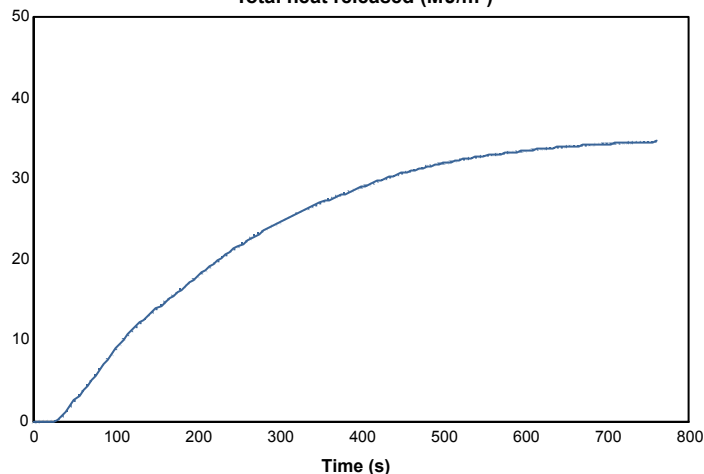
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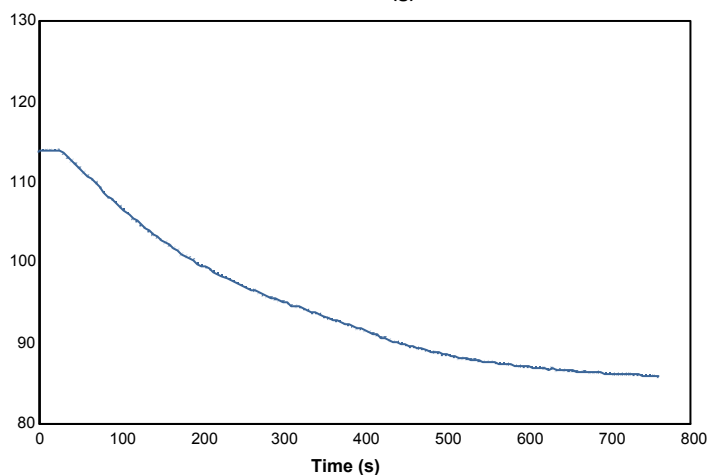
Mass loss rate (g/s)



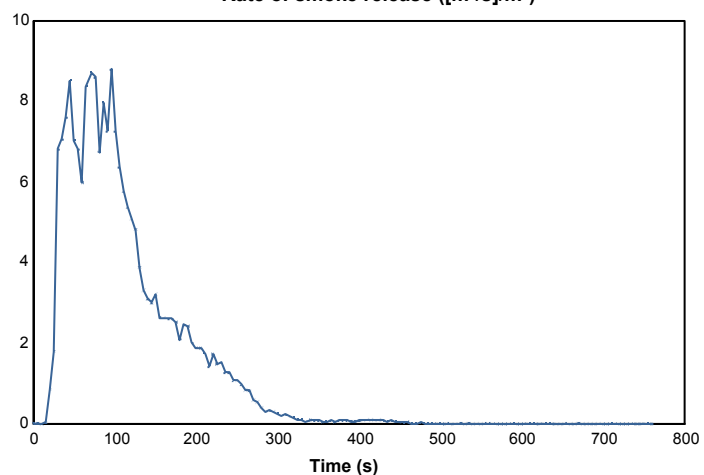
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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