

# 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 New Zealand Building Code Verification Method C/VM2 Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 20-002464  
**Issue Date :** 26/05/2020  
**Print Date :** 26/05/2020

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**Sponsor Product** Clients Ref : "Laminex Multipurpose Compact Laminate"  
Rigid panel  
Colour : Black  
Nominal Composition : Compact laminate incorporating cellulose fibre and thermosetting resins  
Nominal Mass per Unit Area/Density : 1400kg/m3  
Nominal Thickness : 13mm

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Product Group Number Classification : 3

Average Specific Extinction Area : 45.5 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

44246

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## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

**Test Number :** 20-002464  
**Issue Date :** 25/05/2020  
**Print Date :** 26/05/2020  
**Order Number :** 3455941

**Sample Description** Clients Ref : "Laminex Multipurpose Compact Laminatate"  
Rigid panel  
Colour : Black  
Nominal Composition : Compact laminate incorporating cellulose fibre and thermosetting resins  
Nominal Mass per Unit Area/Density : 1400kg/m<sup>3</sup>  
Nominal Thickness : 13mm

### ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 25/05/2020  
Operator AWTA Test Operator 3  
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	95.2	98.6	99.9	97.9	kW/m <sup>2</sup>
Average Specific extinction area	53.5	30.9	52.0	45.5	m <sup>2</sup> /kg

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	55	41	55	50	sec
Test duration	1855	1841	1855	1850	sec
Peak heat release after ignition	152.3	143.7	148.3	148.1	kW/m <sup>2</sup>
Average heat at 180 s	97.2	87.8	92.8	92.6	kW/m <sup>2</sup>
Average heat at 300 s	94.3	89.0	90.8	91.4	kW/m <sup>2</sup>

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APPROVED SIGNATORY

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

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Total heat released	171.4	177.3	179.8	176.2	MJ/m <sup>2</sup>
Average effective heat of combustion	12.0	12.5	12.5	12.4	MJ/kg
Initial thickness	13	13	13	13.0	mm
Initial mass	177.3	177.4	177.6	177.4	g
Mass at sustained flaming	176.1	176.7	176.3	176.4	g
Mass remaining	62.0	62.5	61.5	62.0	g
Mass loss	14236.3	14179.1	14339.0	14251.4	g/m <sup>2</sup>
Average rate of mass loss	7.9	7.9	8.0	7.9	g/m <sup>2</sup> .s
Total smoke Production (Non Flaming phase)	37.2	34.2	53.9	41.8	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	763.7	439.0	746.6	649.8	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	800.9	473.2	800.5	691.5	m <sup>2</sup> /m <sup>2</sup>
Specimen Surface area	0.00810	0.00810	0.00810	-	m <sup>2</sup>
C-Factor (Calibration Constant)	0.04093	0.04093	0.04093	-	-
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.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Note: All calculations are based on ignition + 30 minutes.

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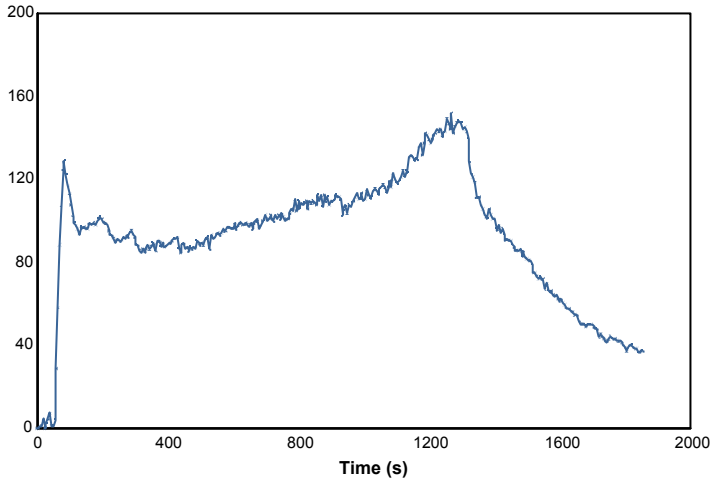
## TEST REPORT

**Client :** The Laminex Group  
22 Trewin Street  
Wendouree VIC 3355

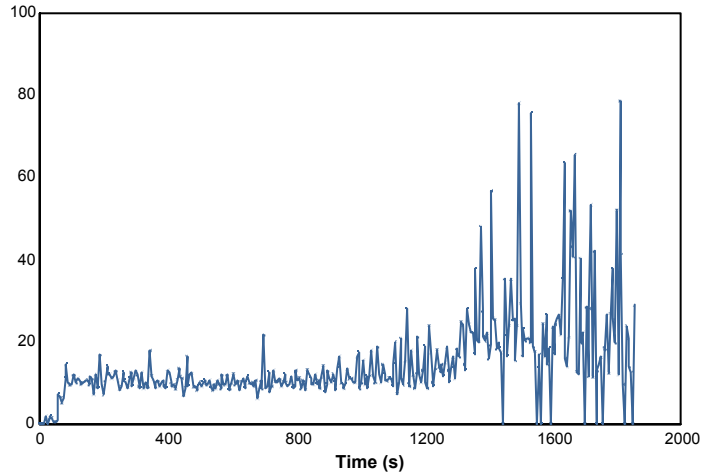
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**Issue Date :** 25/05/2020  
**Print Date :** 26/05/2020  
**Order Number :** 3455941

**Specimen :** 1

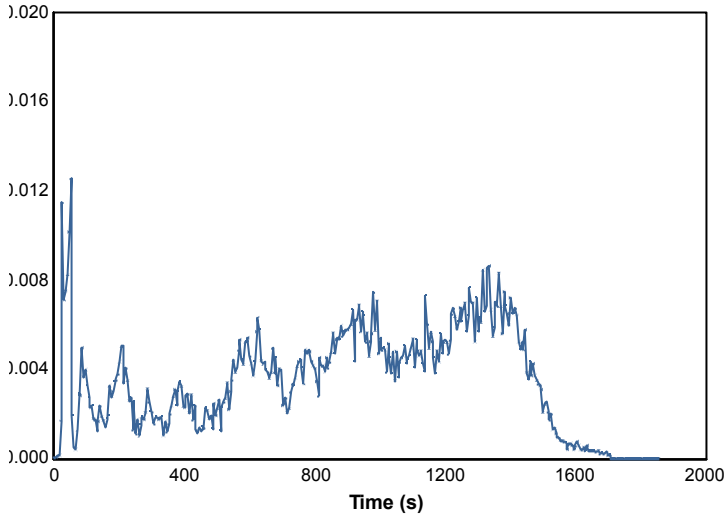
Heat release rate (kW/m<sup>2</sup>)



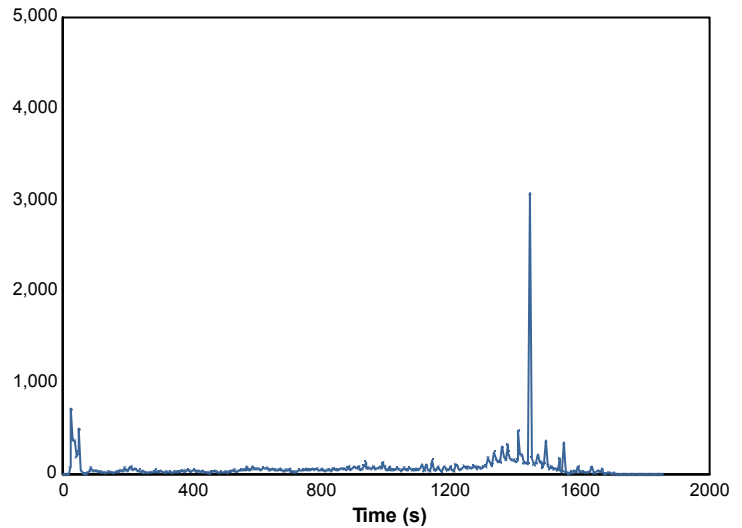
Effective heat of combustion (MJ/kg)



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



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



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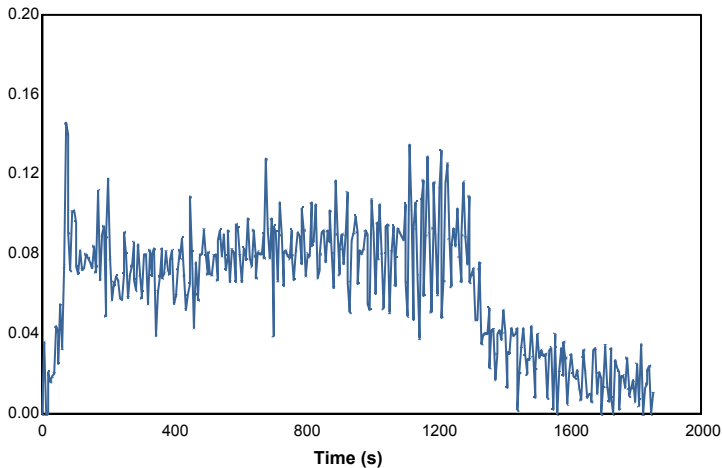
Phone (03) 9371 2400

## TEST REPORT

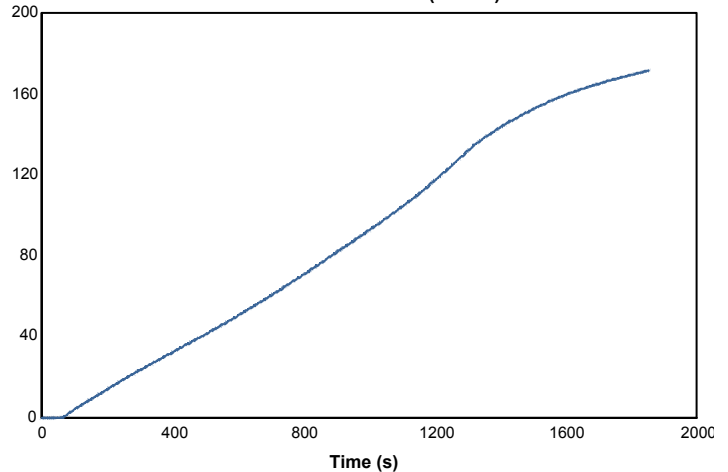
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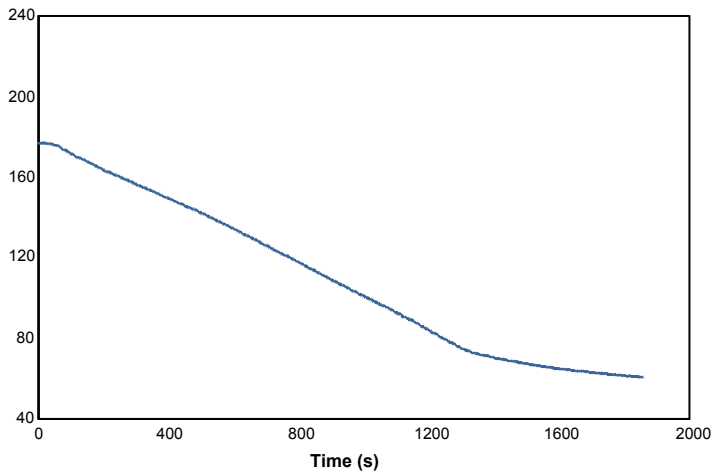
Mass loss rate (g/s)



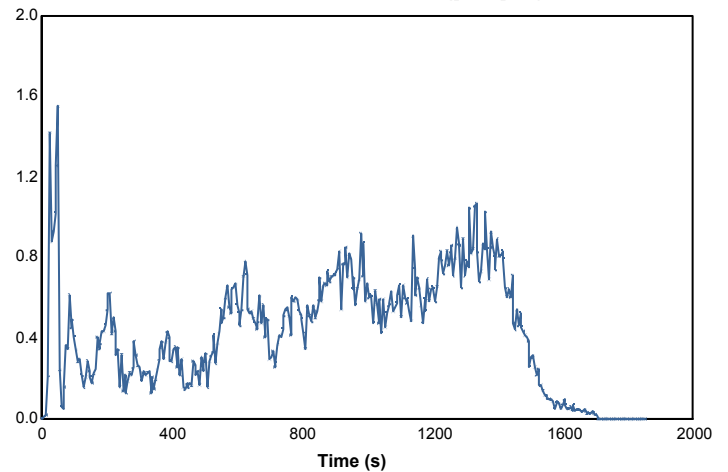
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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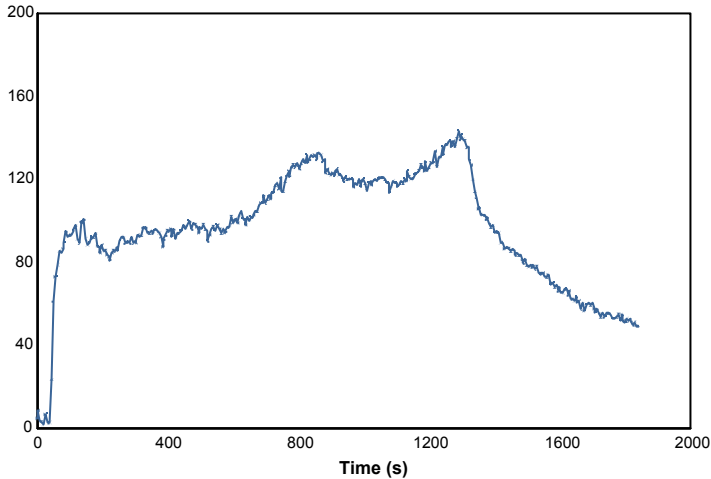
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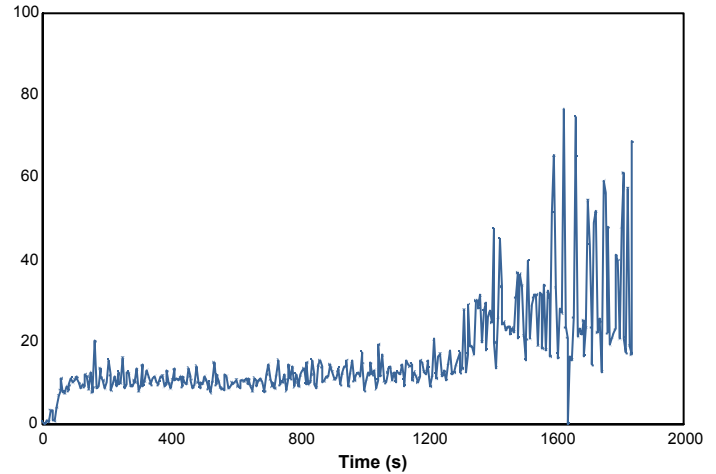
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**Order Number :** 3455941

**Specimen :** 2

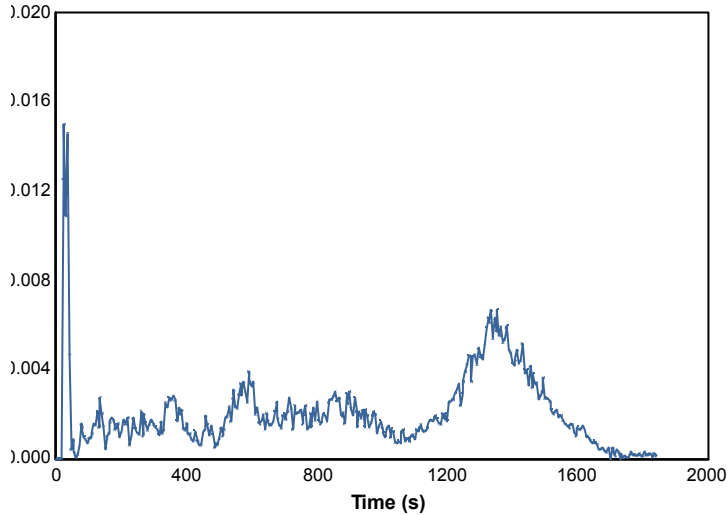
Heat release rate (kW/m<sup>2</sup>)



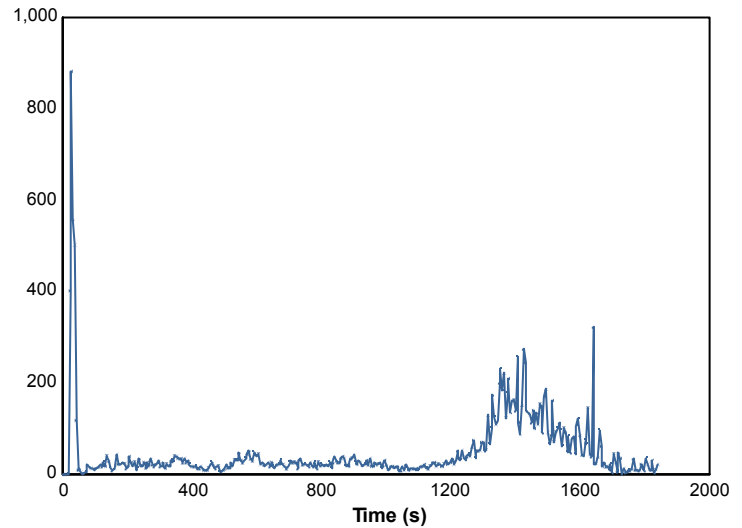
Effective heat of combustion (MJ/kg)



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



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



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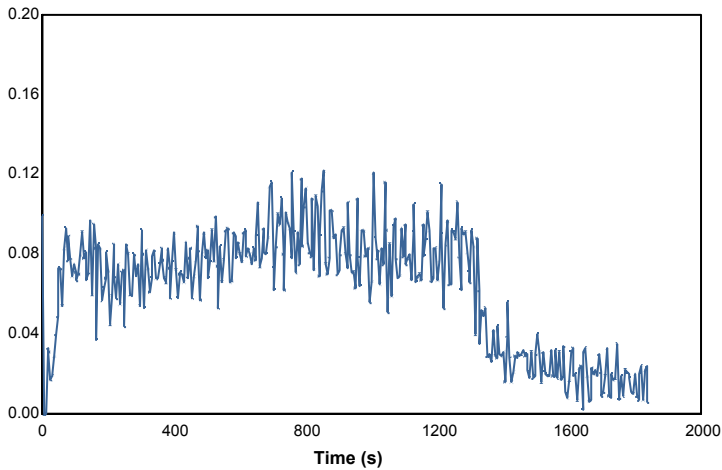
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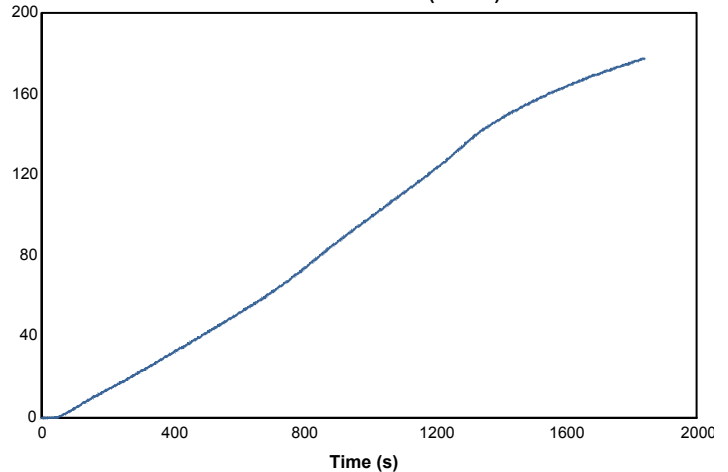
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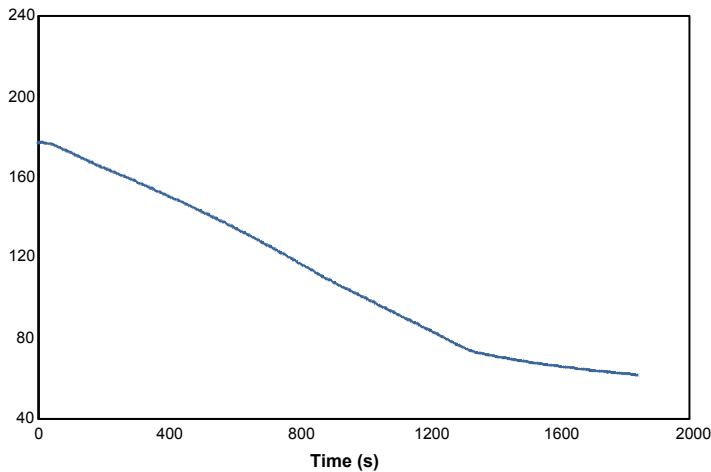
Mass loss rate (g/s)



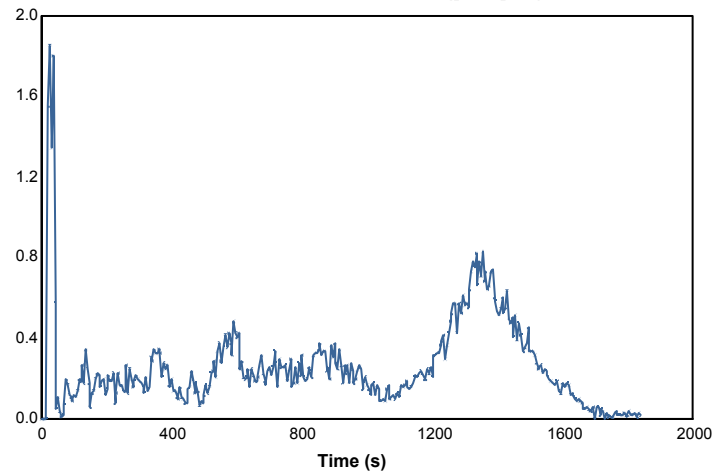
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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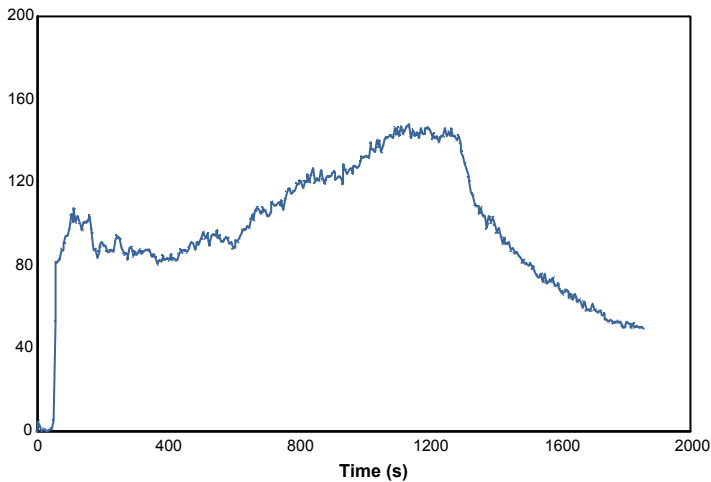
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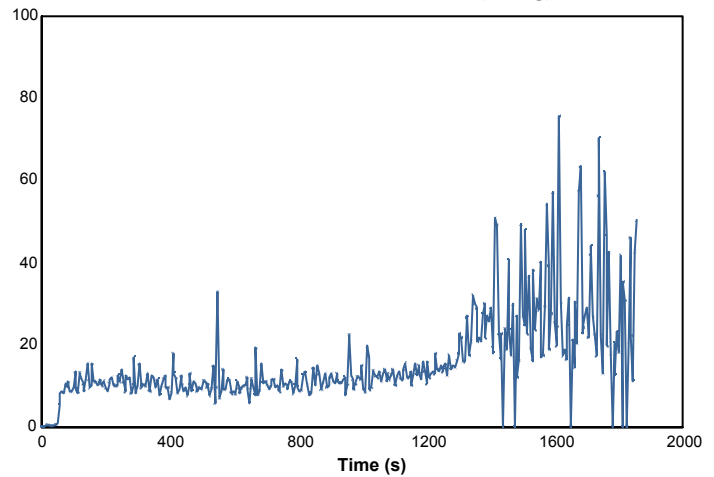
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**Specimen :** 3

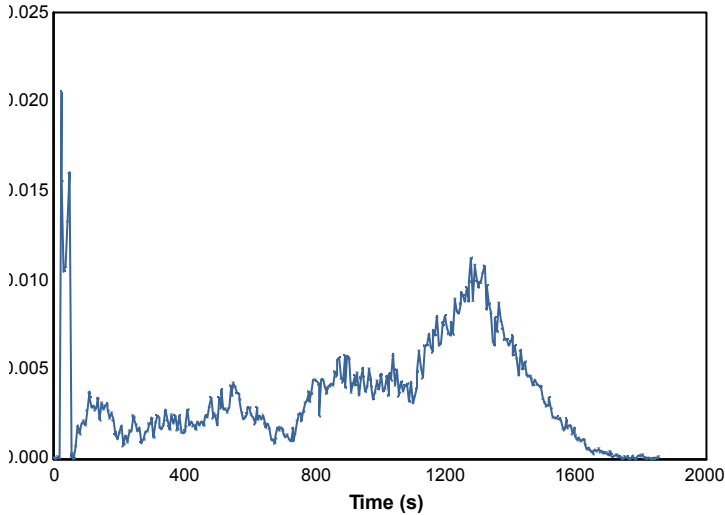
Heat release rate (kW/m<sup>2</sup>)



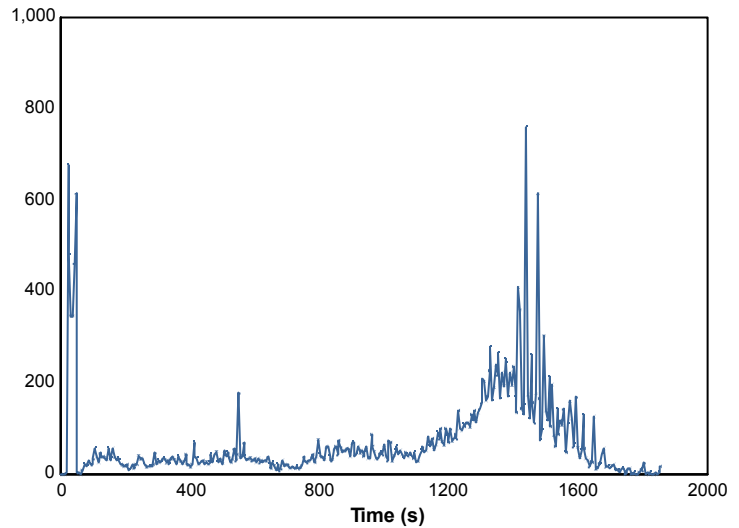
Effective heat of combustion (MJ/kg)



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



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



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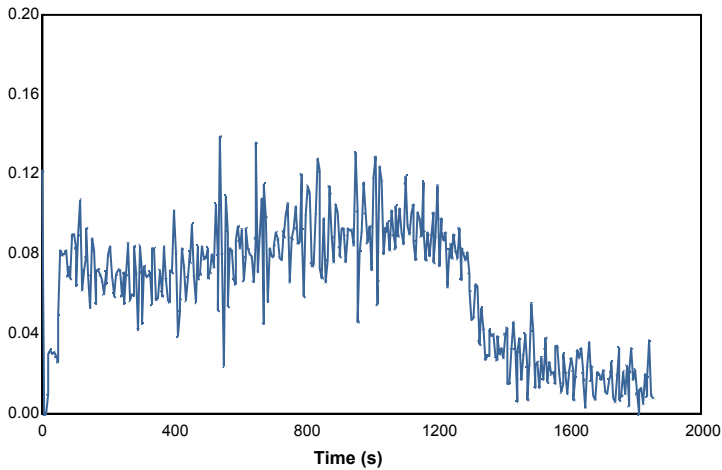
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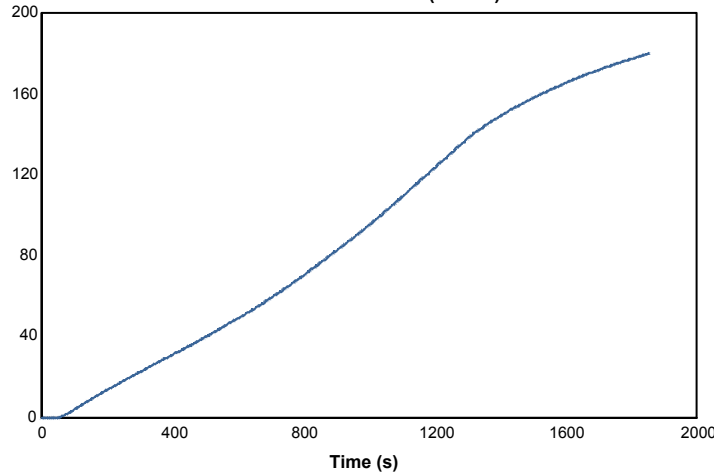
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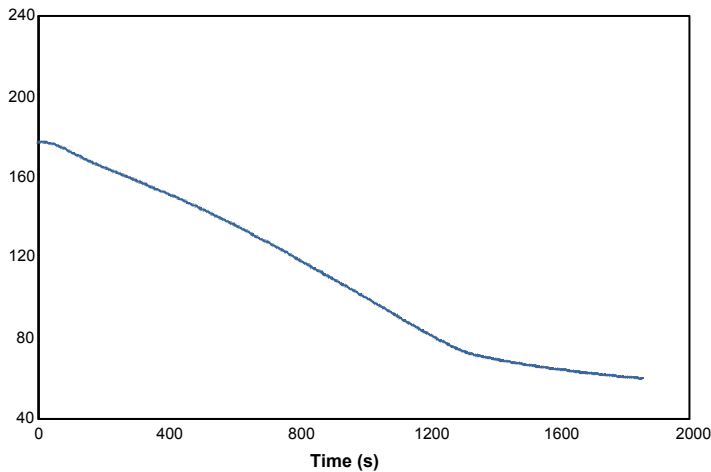
Mass loss rate (g/s)



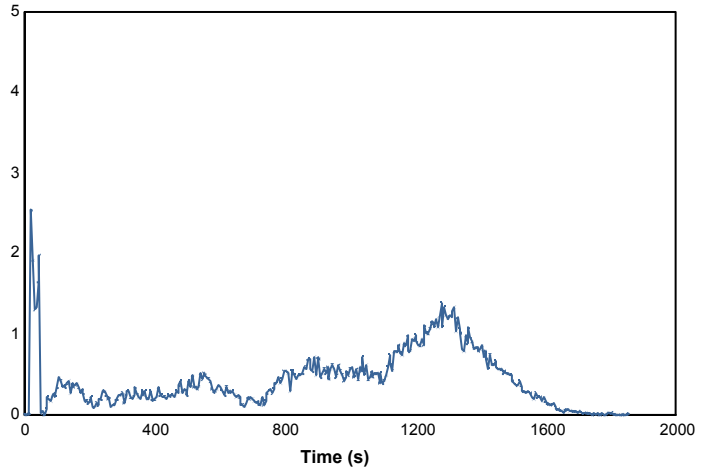
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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