

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

**Test Number :** 20-000366  
**Issue Date :** 16/03/2020  
**Print Date :** 19/03/2020  
**Order Number :** 3455941

**Sample Description** Clients Ref : "Laminex Absolute Gloss Panel"  
Foil coated decorative surface on MDF Laminex Lab Log Number 25346  
Nominal Composition : MDF  
Nominal Mass per Unit Area/Density : 730kg/m<sup>3</sup>  
Nominal Thickness : 18mm

### 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 16/03/2020  
Operator AWTA Test Operator 7  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	116.7	115.4	131.7	121.3	kW/m <sup>2</sup>
Average Specific extinction area	107.0	106.8	123.0	112.3	m <sup>2</sup> /kg

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	39	42	35	39	sec
Test duration	1839	1842	1835	1839	sec
Peak heat release after ignition	399.9	393.4	411.0	401.4	kW/m <sup>2</sup>
Average heat at 180 s	250.5	249.7	287.3	262.5	kW/m <sup>2</sup>
Average heat at 300 s	206.3	217.7	245.3	223.1	kW/m <sup>2</sup>
Total heat released	209.9	207.7	237.1	218.2	MJ/m <sup>2</sup>
Average effective heat of combustion	14.6	14.7	16.8	15.3	MJ/kg

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Initial thickness	18	18	18	18.0	mm
Initial mass	147.6	146.1	145.9	146.5	g
Mass at sustained flaming	147.6	146.1	145.8	146.5	g
Mass remaining	31.0	31.3	31.3	31.2	g
Mass loss	14389.4	14176.1	14152.1	14239.2	g/m <sup>2</sup>
Average rate of mass loss	8.0	7.9	7.9	7.9	g/m <sup>2</sup> .s
Total smoke Production (Non Flaming phase)	0.5	1.6	0.7	0.9	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	1568.2	1536.8	1741.7	1615.6	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	1568.7	1538.4	1742.4	1616.5	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)	0.040143	0.040143	0.040143	-	-
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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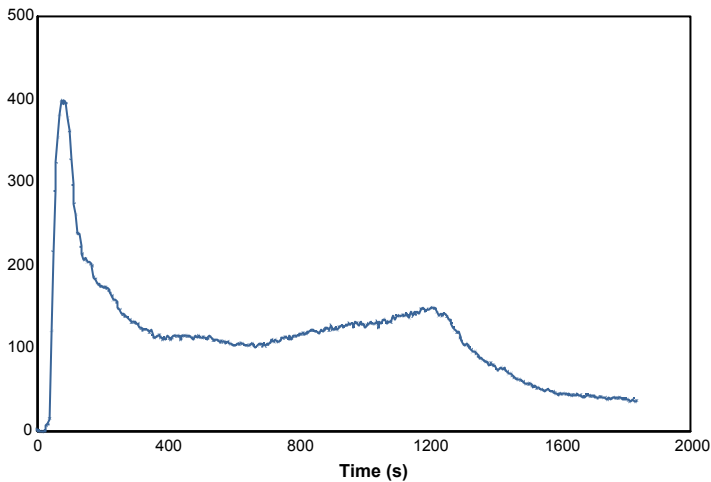
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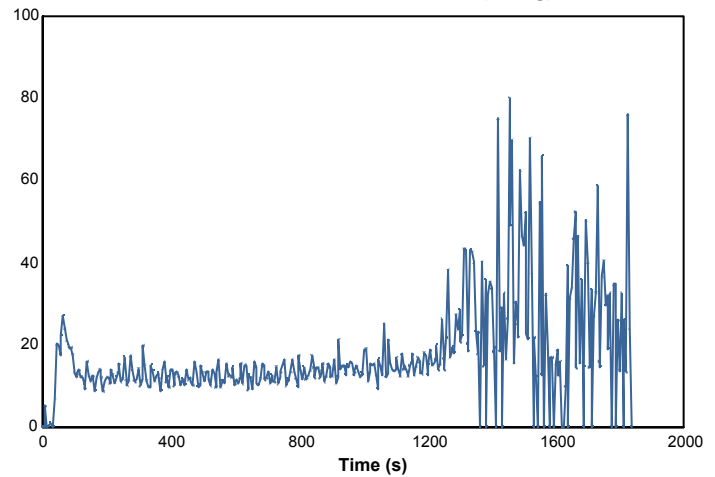
**Test Number :** 20-000366  
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**Specimen :** 1

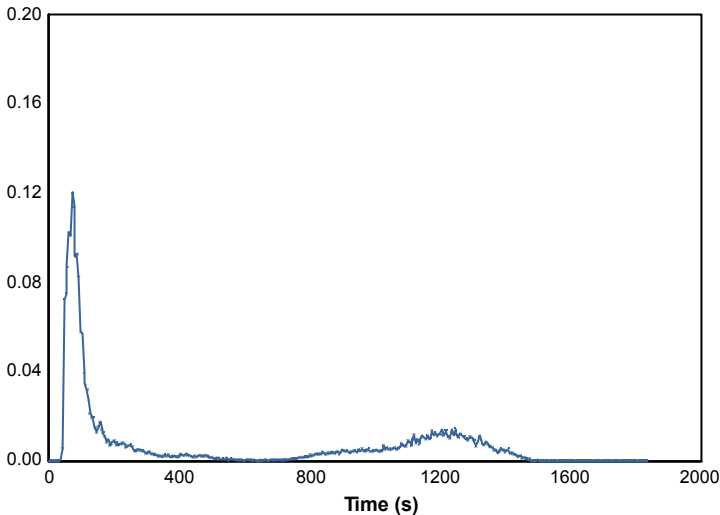
Heat release rate (kW/m<sup>2</sup>)



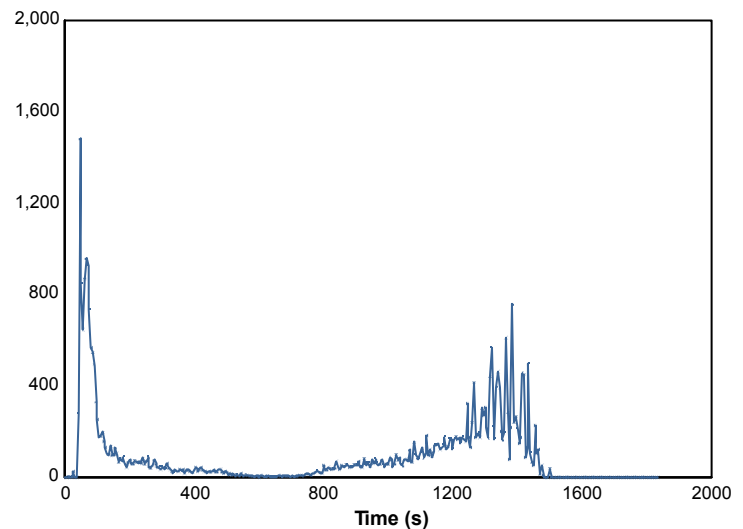
Effective heat of combustion (MJ/kg)



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



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



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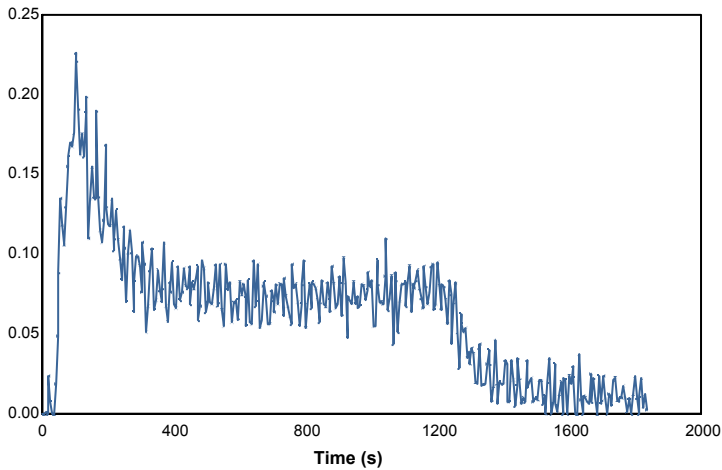
Phone (03) 9371 2400

## TEST REPORT

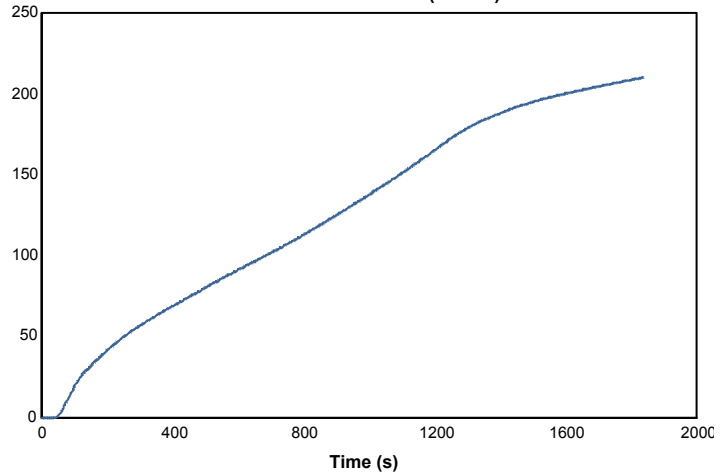
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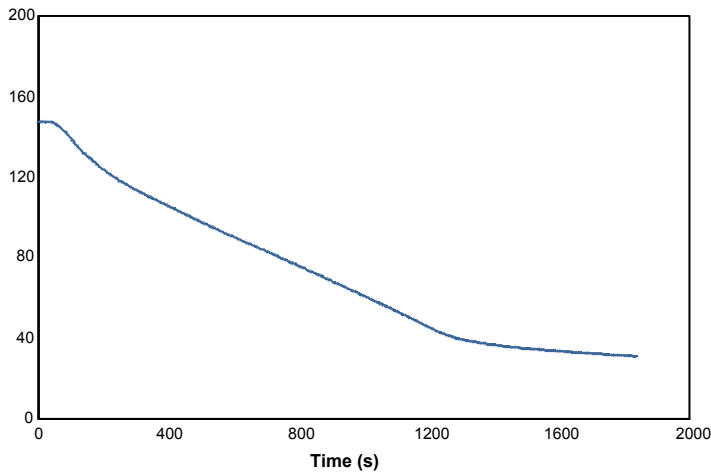
Mass loss rate (g/s)



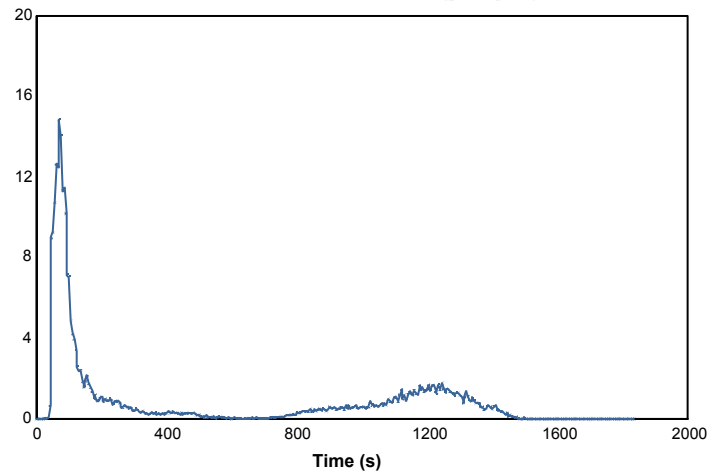
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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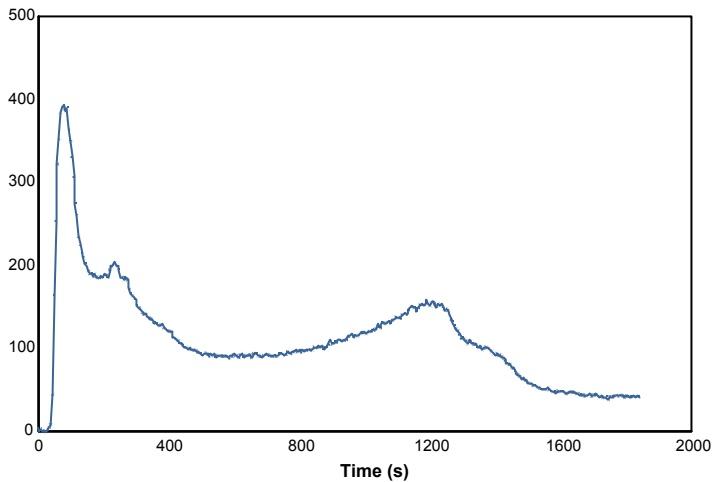
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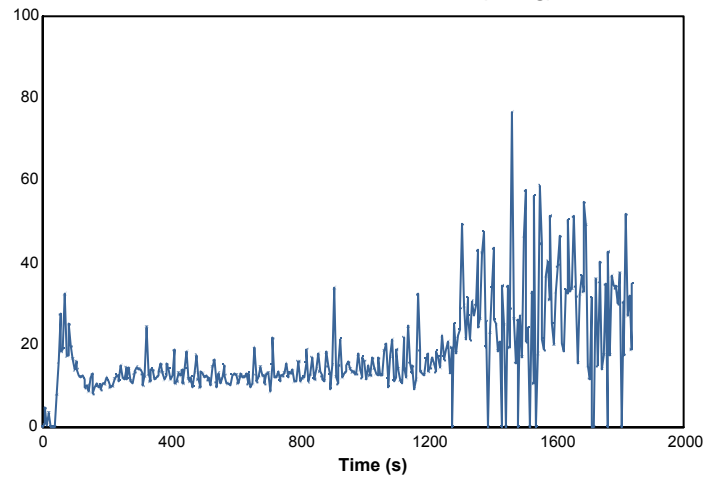
**Test Number :** 20-000366  
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**Specimen :** 2

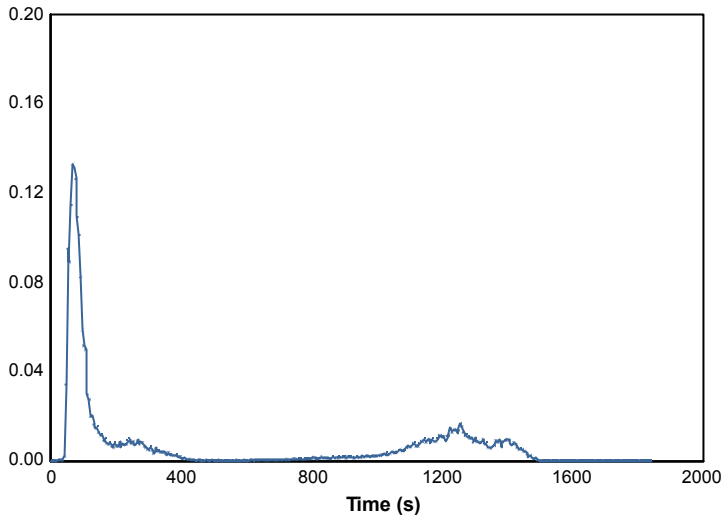
Heat release rate (kW/m<sup>2</sup>)



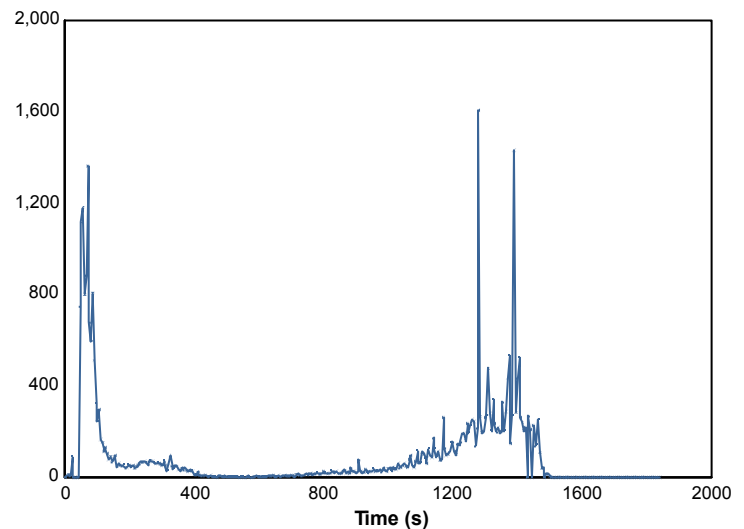
Effective heat of combustion (MJ/kg)



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



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



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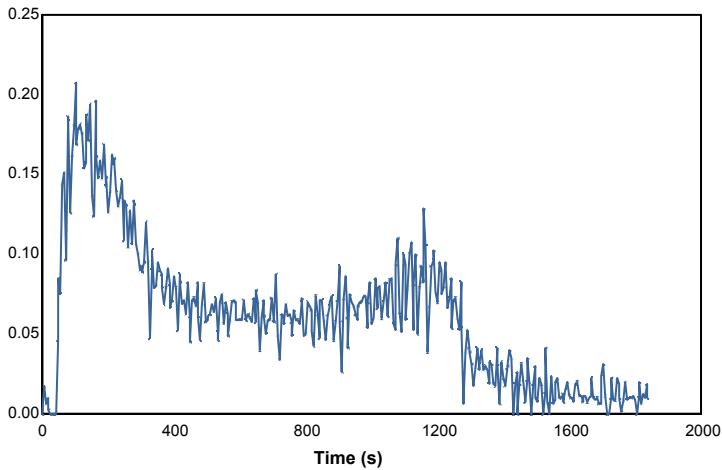
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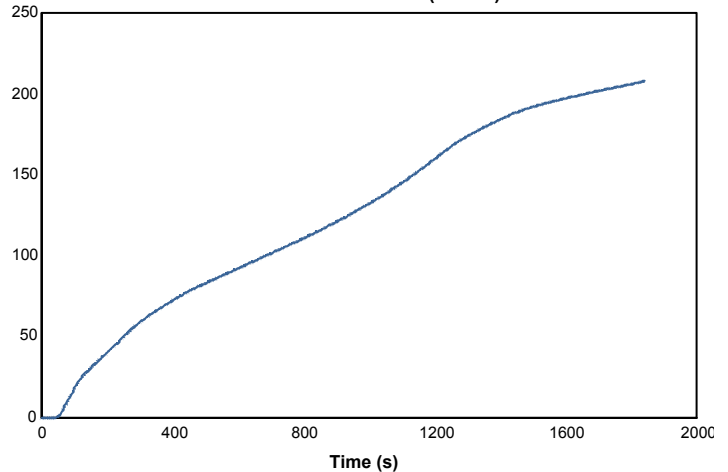
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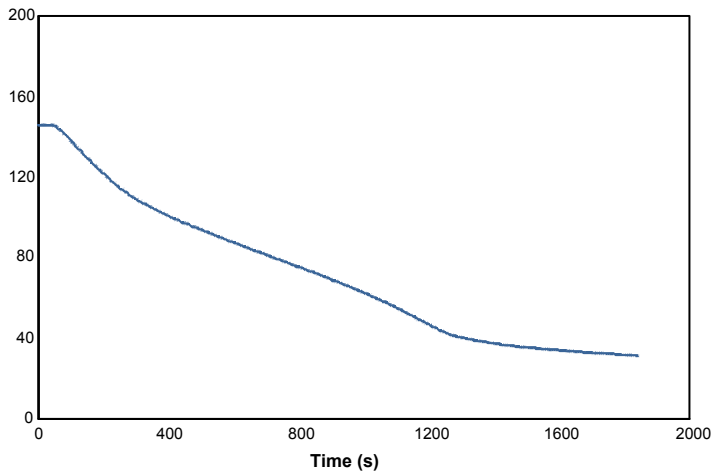
Mass loss rate (g/s)



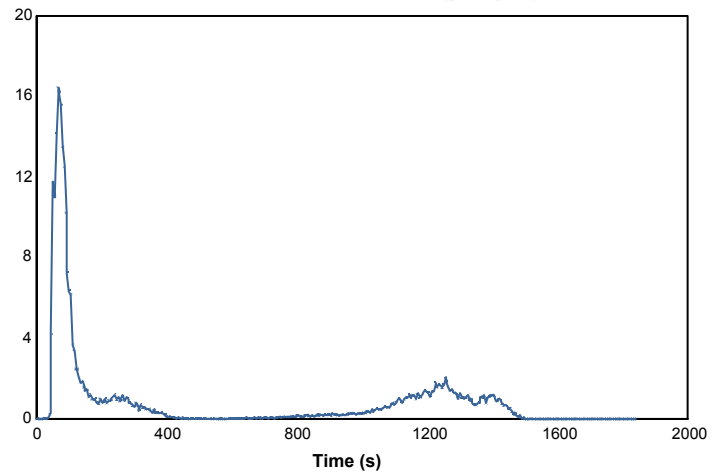
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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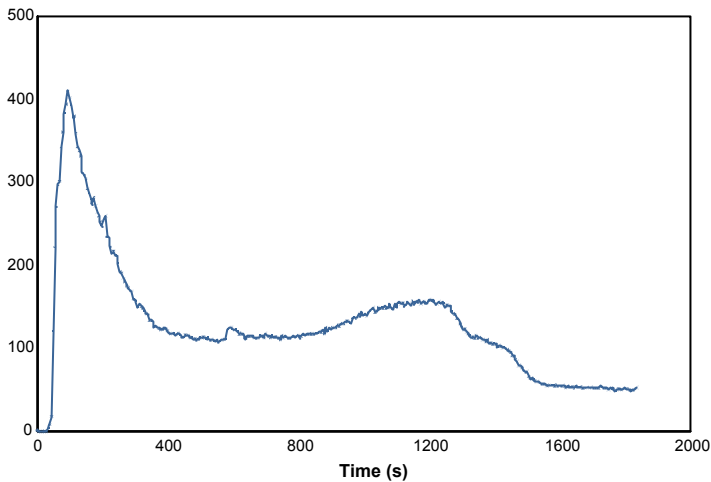
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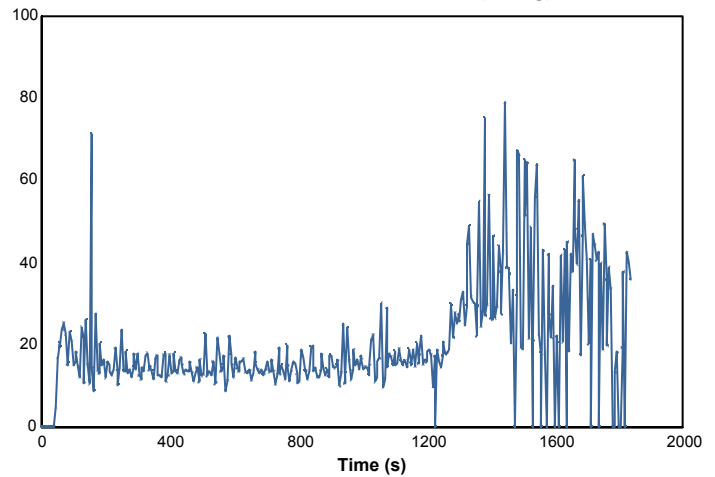
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**Specimen :** 3

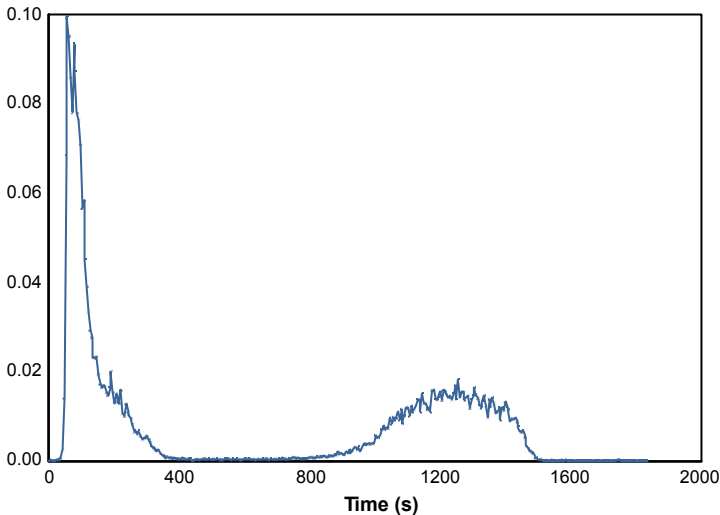
Heat release rate (kW/m<sup>2</sup>)



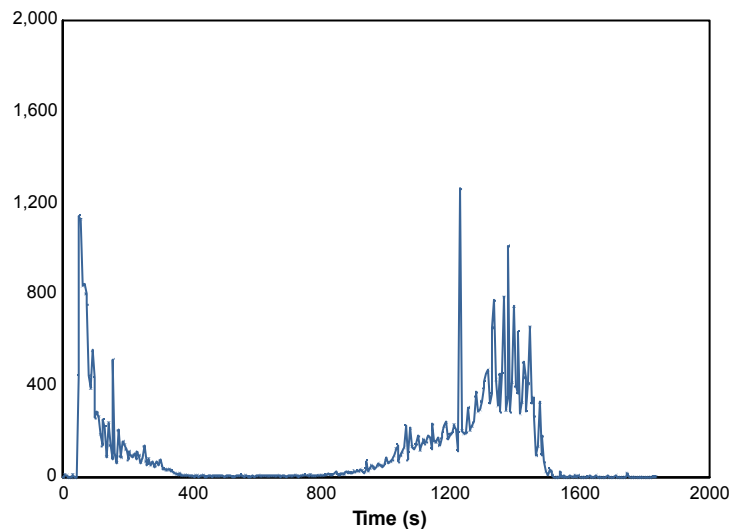
Effective heat of combustion (MJ/kg)



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



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



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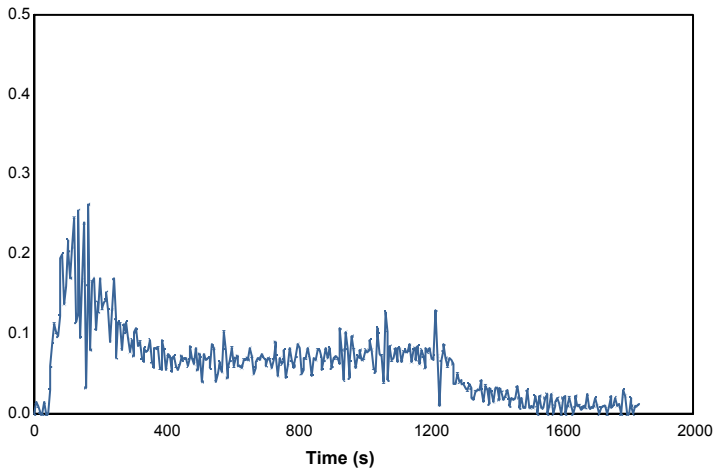
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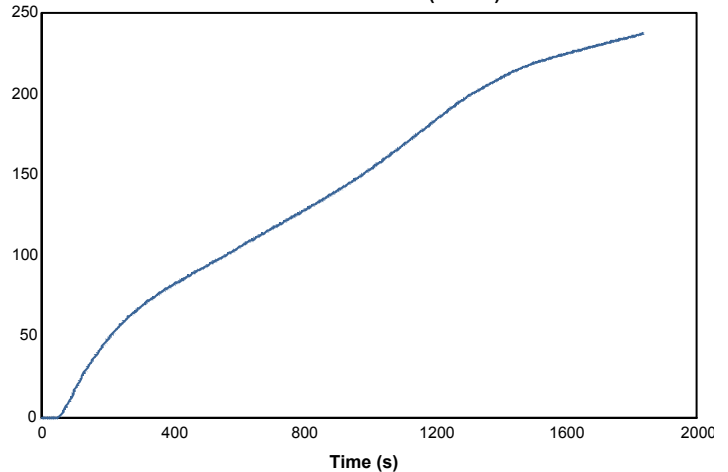
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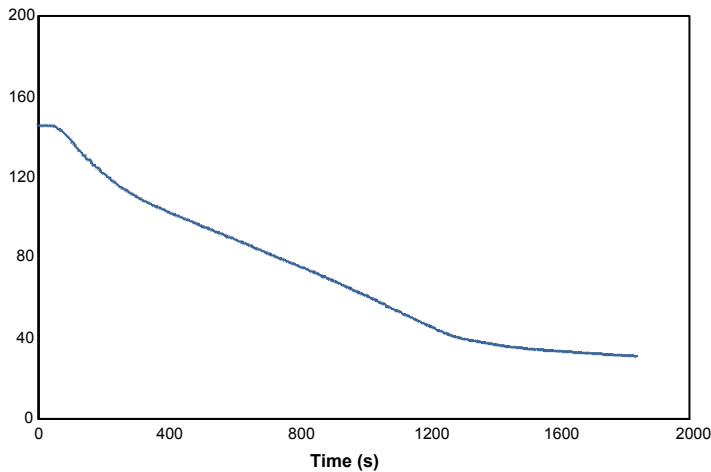
Mass loss rate (g/s)



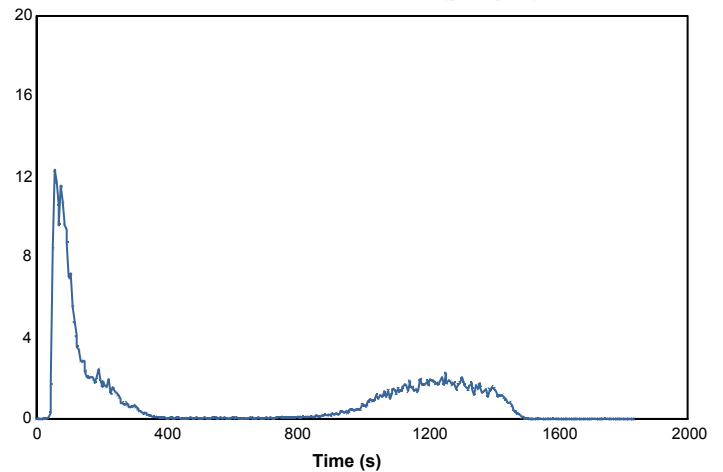
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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