

# 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

## TEST REPORT

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

**Test Number :** 19-001789  
**Issue Date :** 12/04/2019  
**Print Date :** 12/04/2019

**Sample Description** Clients Ref : "Mural Calypso"  
Vinyl Sheet  
Colour : Anise & Lilac  
End Use : Commercial Wall Covering  
Nominal Composition : Calendered PV  
Nominal Mass per Unit Area/Density : 1610g/m<sup>2</sup>  
Nominal Thickness : 0.92mm

### 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 11/04/2019  
Operator AWTA Test Operator 1  
Face Tested face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	8.4	10.6	9.9	9.6	kW/m <sup>2</sup>
Average Specific extinction area	11.1	5.1	3.4	6.5	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	44	52	30	42	sec
Test duration	1844	1852	1830	1842	sec
Peak heat release after ignition	30.4	38.4	36.0	34.9	kW/m <sup>2</sup>
Average heat at 180 s	13.6	15.1	16.0	14.9	kW/m <sup>2</sup>
Average heat at 300 s	14.2	15.3	16.9	15.5	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	15.1	19.2	17.9	17.4	MJ/m <sup>2</sup>
Average effective heat of combustion	5.0	6.9	5.9	5.9	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	104.3	107.4	108.2	106.6	g
Mass at sustained flaming	103.8	106.1	108.1	106.0	g
Mass remaining	79.5	84.5	83.8	82.6	g
Mass loss	3063.1	2827.3	3013.4	2967.9	g/m <sup>2</sup>
Average rate of mass loss	1.7	1.5	1.7	1.6	g/m <sup>2</sup> .s
Total smoke Production (Non Flaming phase)	40.2	64.5	12.1	38.9	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	83.7	90.3	102.1	92.0	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	123.9	154.8	114.2	131.0	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)	0.040198	0.040198	0.040019	-	-
Additional Observations	None				
Difficulties Encountered during Testing	Erratic burning.				

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.

Samples were adhered to a substrate of 6mm thick cement sheet using Roberts 656 wallcovering adhesive prior to testing

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

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 : The sample has a heat release rate of less than 50 kW/m<sup>2</sup>. In accordance with New Zealand Building Code verification Method C/VM2 Appendix A this product shall be classified as Group 1.

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If a different classification group is obtained for different specimens tested, then the highest (worst) classification for any specimen must be taken as the final classification for that material.

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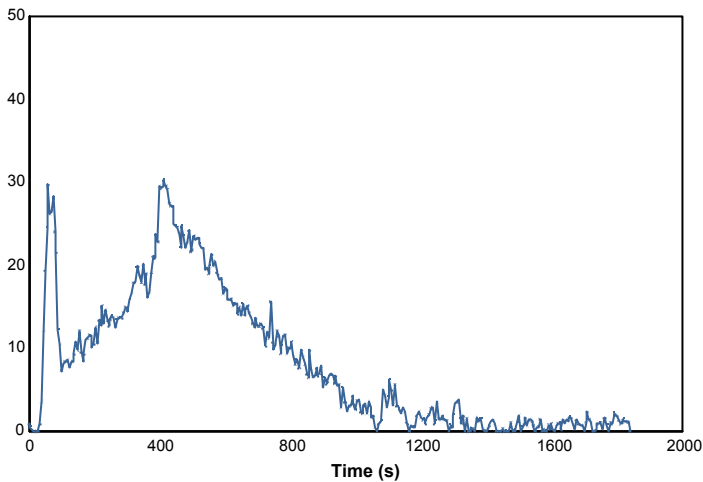
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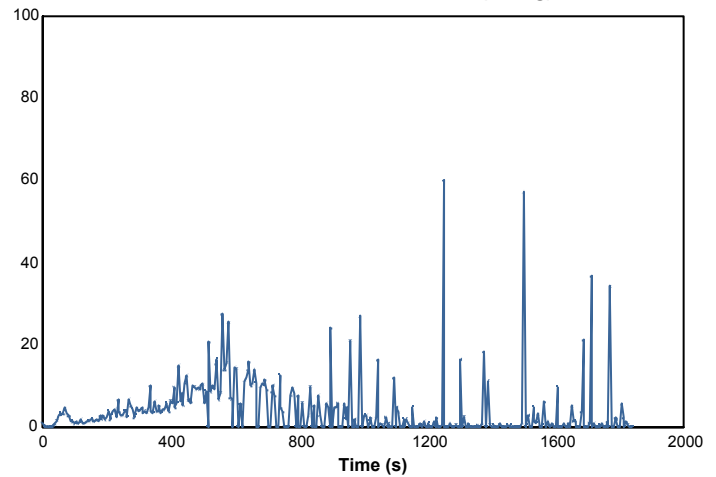
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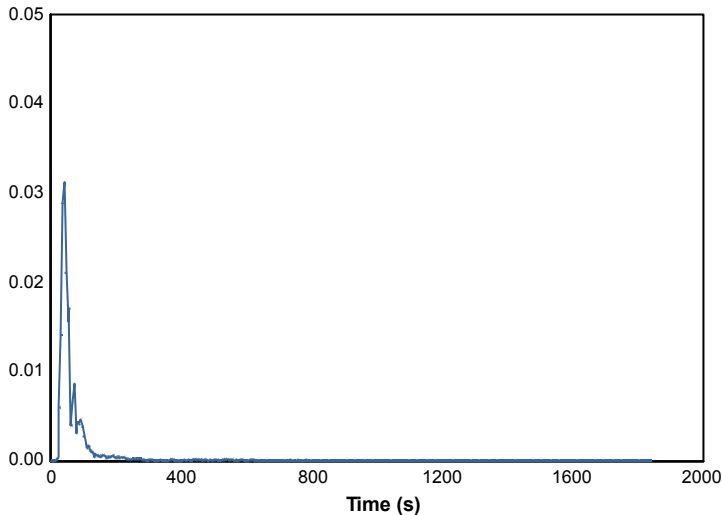
Heat release rate (kW/m<sup>2</sup>)



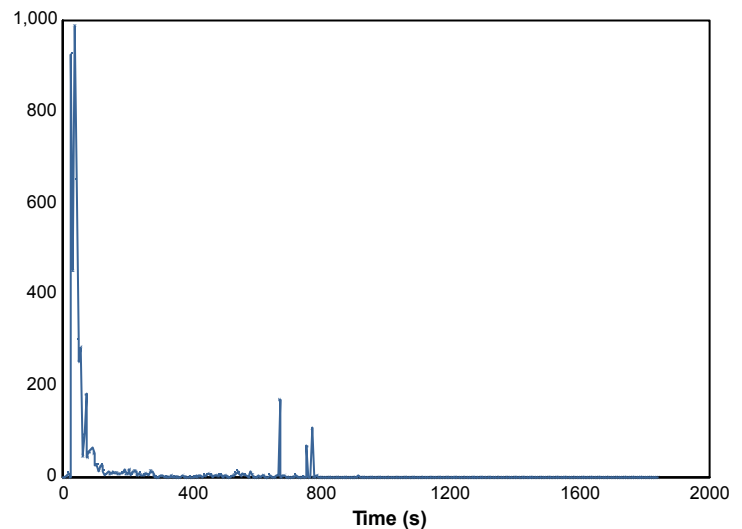
Effective heat of combustion (MJ/kg)



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



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



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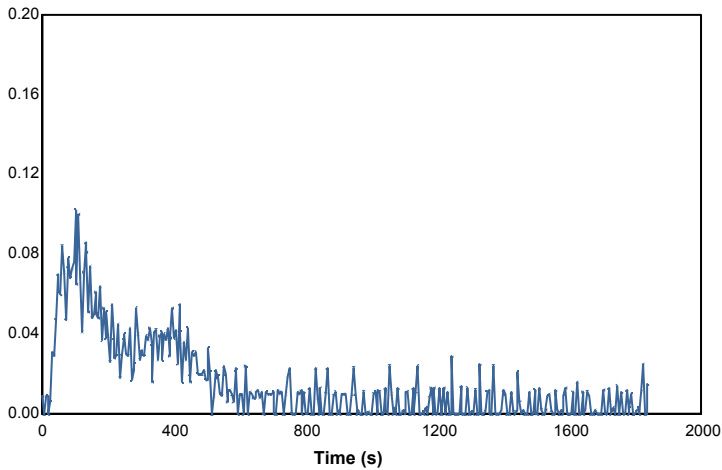
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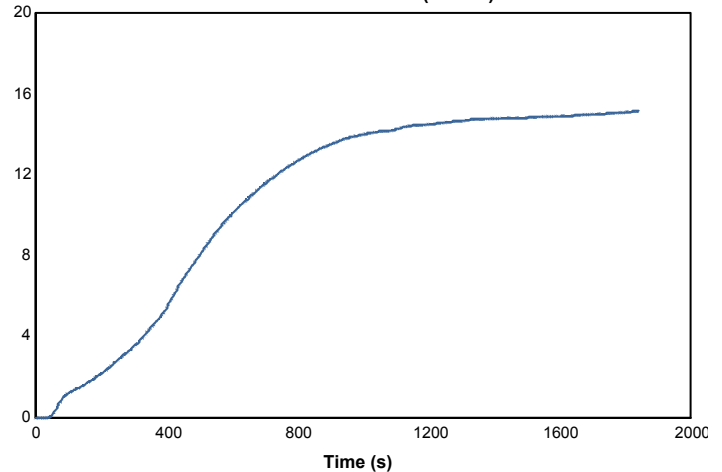
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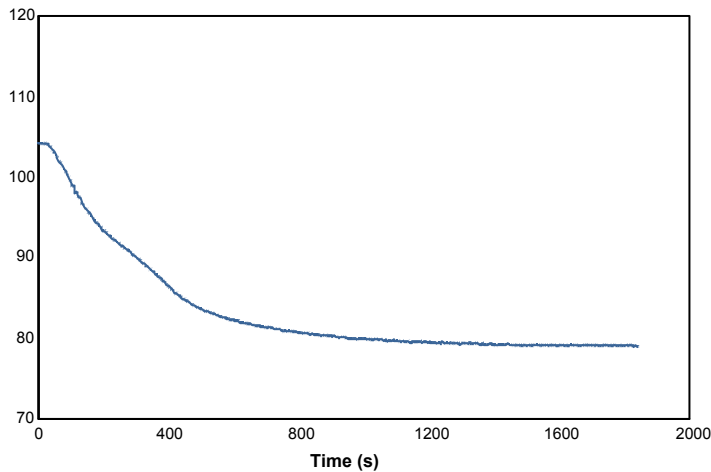
Mass loss rate (g/s)



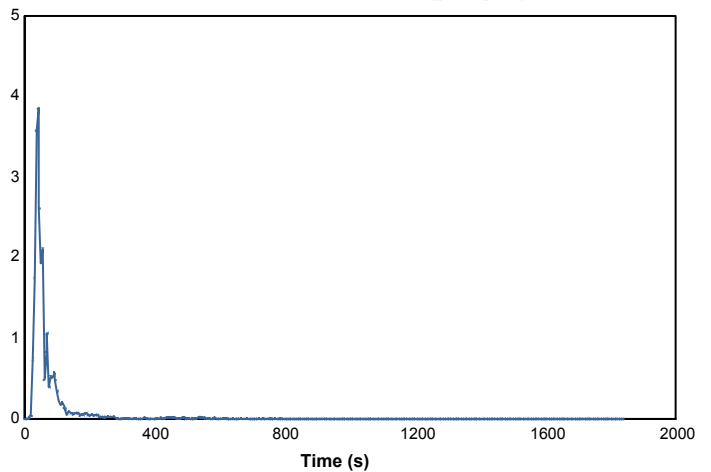
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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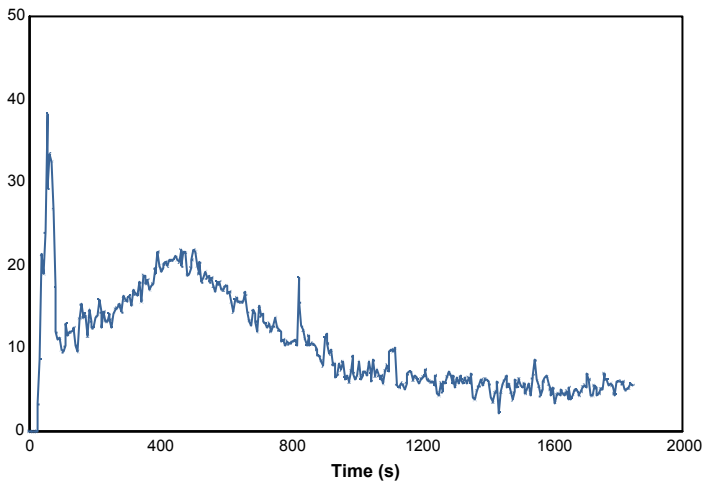
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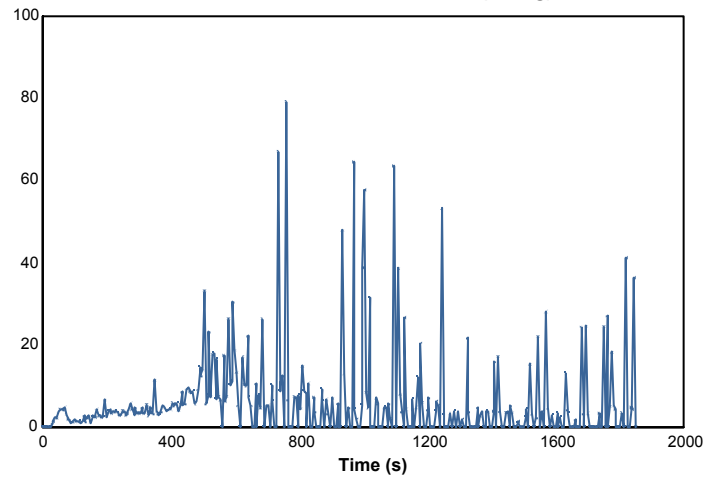
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**Specimen :** 2

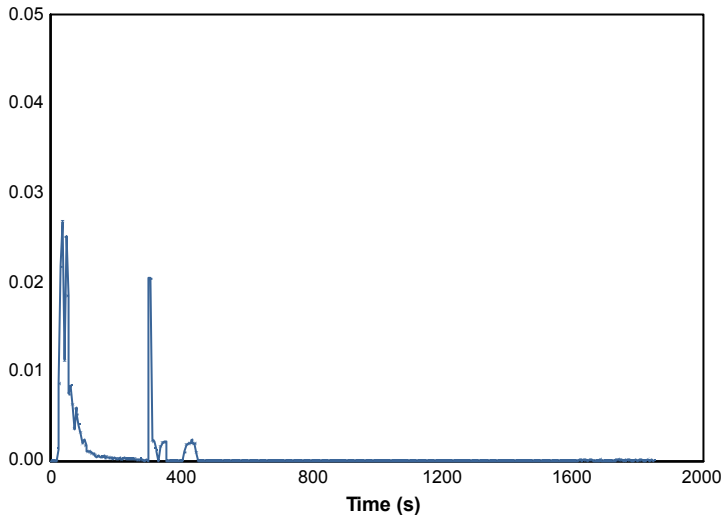
Heat release rate (kW/m<sup>2</sup>)



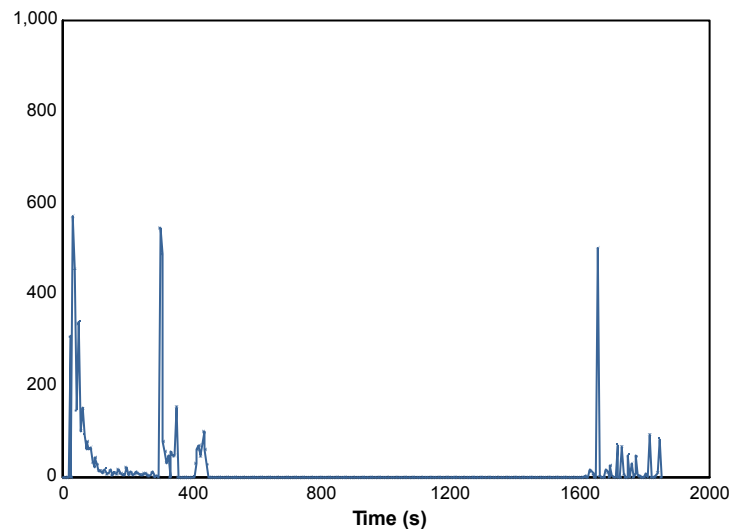
Effective heat of combustion (MJ/kg)



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



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



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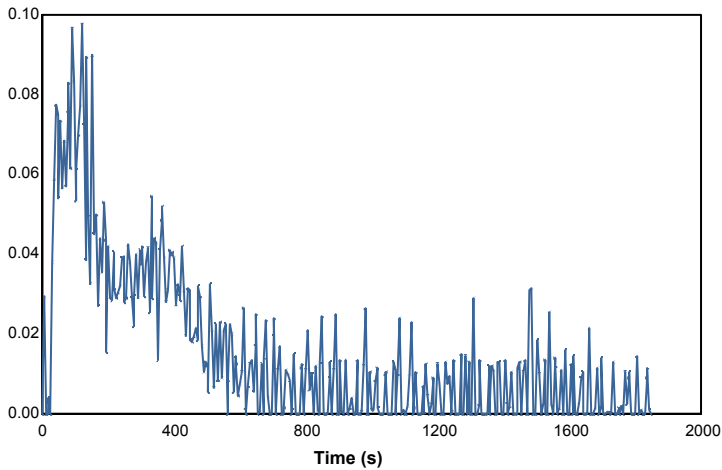
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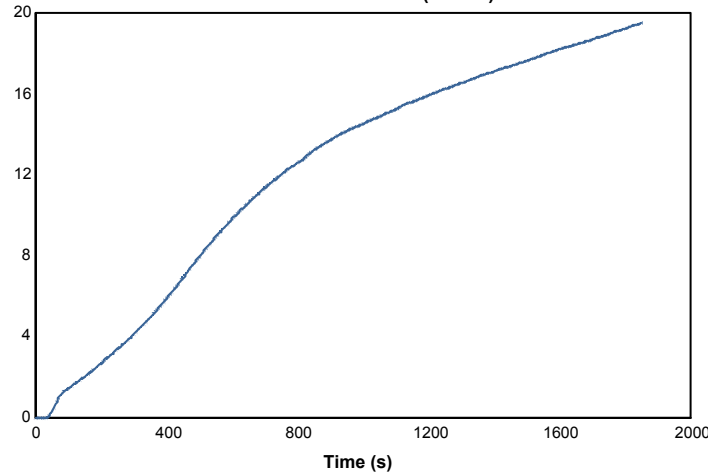
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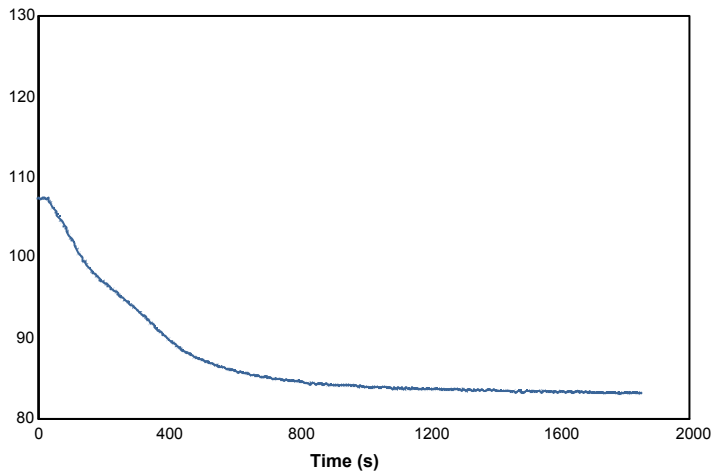
Mass loss rate (g/s)



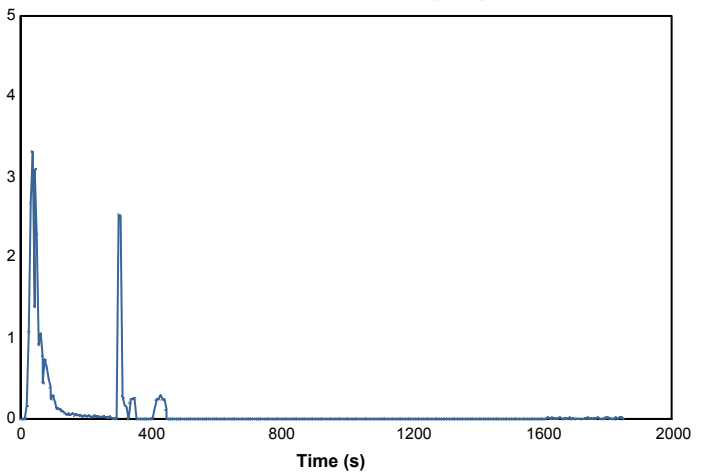
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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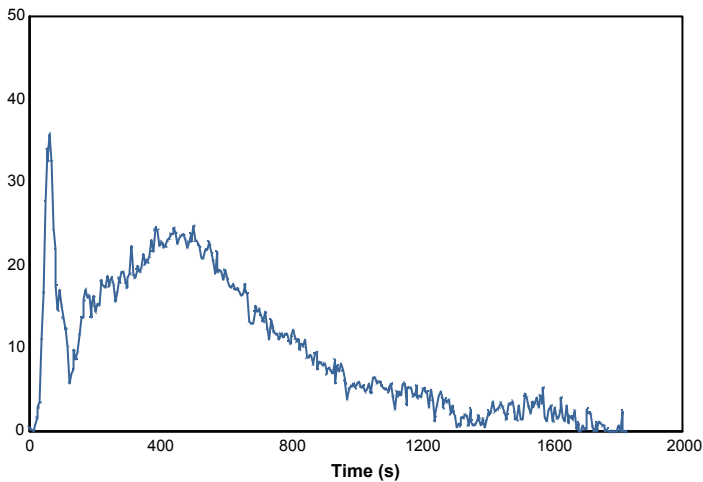
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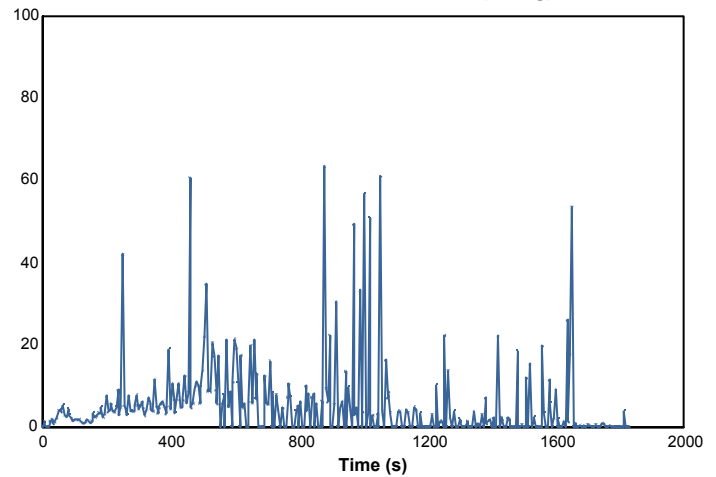
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**Specimen :** 3

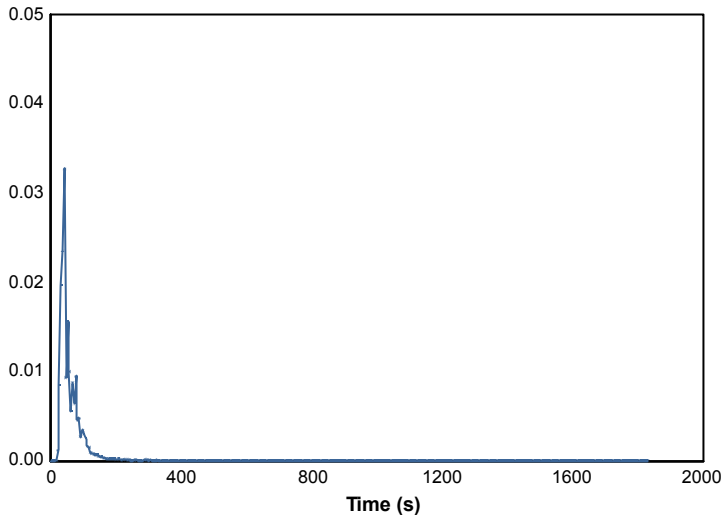
Heat release rate (kW/m<sup>2</sup>)



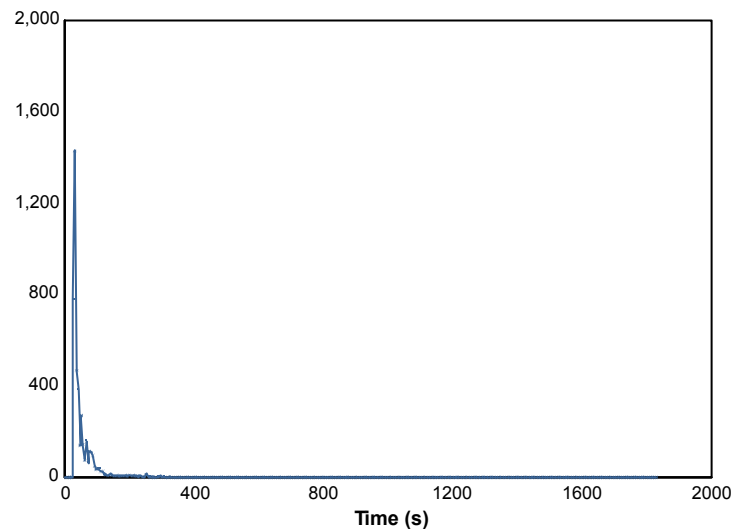
Effective heat of combustion (MJ/kg)



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



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



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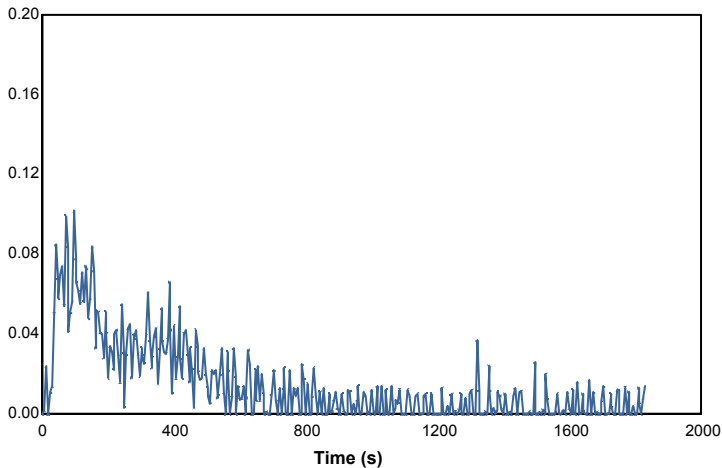
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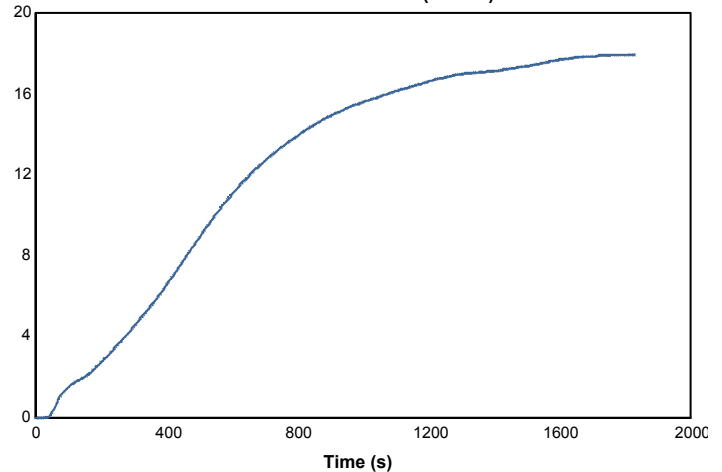
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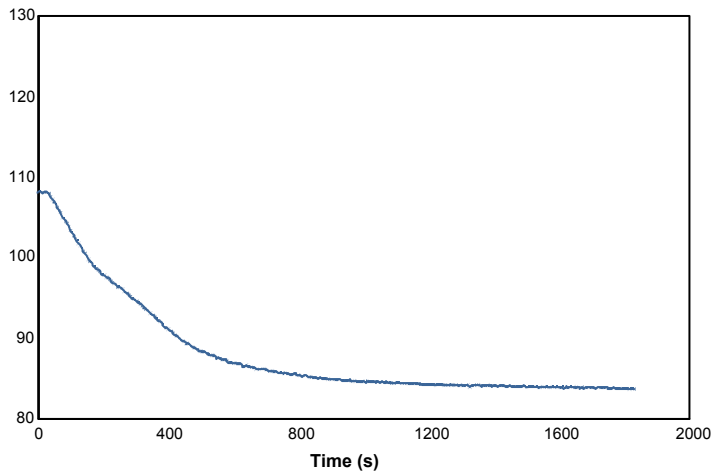
Mass loss rate (g/s)



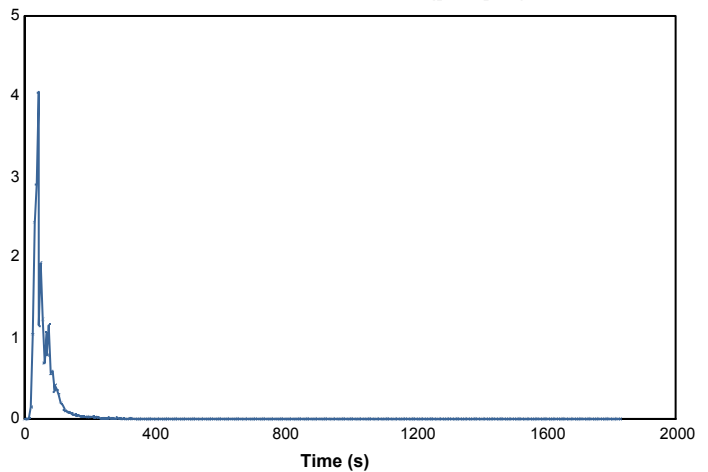
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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