

# 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

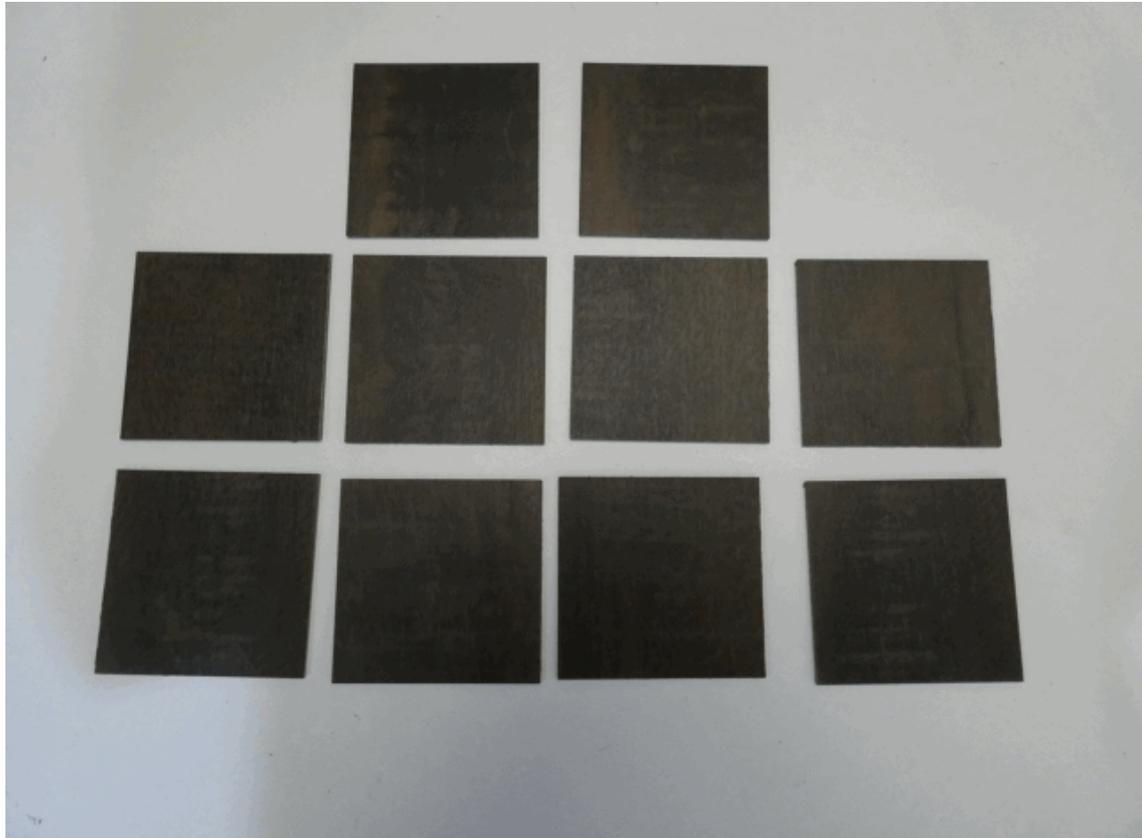
## TEST REPORT

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

**Test Number :** 21-005942  
**Issue Date :** 08/12/2021  
**Print Date :** 9/12/2021

### Sample Description

Clients Ref : "Virtuo Classic 55 XL" Vinyl  
Composition: Heterogenous PVC, Printed Layer, Mass: 4410g/m2, Thickness: 2.5mm  
Colour : Timber effect  
End Use : Commercial Wallcovering



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Sean Bassett

APPROVED SIGNATORY

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

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**AS/NZS 3837-1998** Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 08-12-2021  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	47.8	51.7	53.1	50.8	kW/m <sup>2</sup>
Average Specific extinction area	350.8	407.8	393.1	383.9	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	24	24	26	25	sec
Test duration	759	630	571	653	sec
Peak heat release after ignition	138.7	130.1	126.1	131.7	kW/m <sup>2</sup>
Average heat at 60 s	108.6	105.1	107.7	107.1	kW/m <sup>2</sup>
Average heat at 180 s	101.5	100.3	94.0	98.6	kW/m <sup>2</sup>
Average heat at 300 s	85.7	85.5	80.6	83.9	kW/m <sup>2</sup>
Total heat released	35.0	31.3	28.9	31.7	MJ/m <sup>2</sup>
Average effective heat of combustion	7.7	7.2	7.1	7.3	MJ/kg
Initial thickness	12.5	12.5	12.5	12.5	mm
Initial mass	109.1	109.6	109.1	109.3	g
Mass remaining	72.4	74.5	76.0	74.3	g
Mass percentage pyrolysed	33.7	32.0	30.4	32.0	%

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Mass loss	4.5	4.3	4.1	4.3	kg/m <sup>2</sup>
Average rate of mass loss	6.2	7.1	7.5	7.0	g/m <sup>2</sup> .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

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

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.

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

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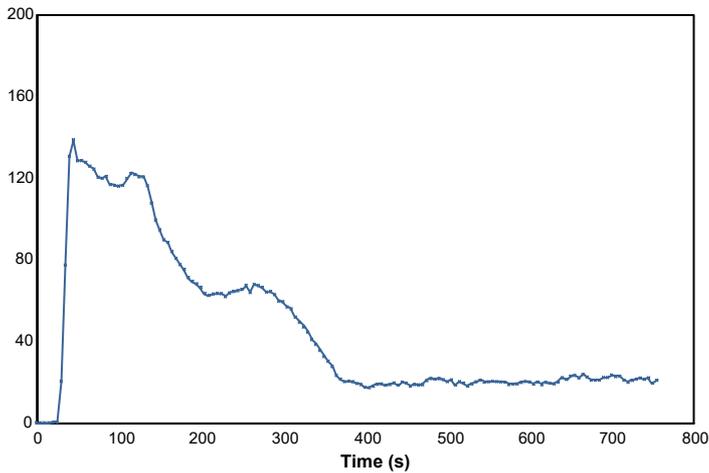
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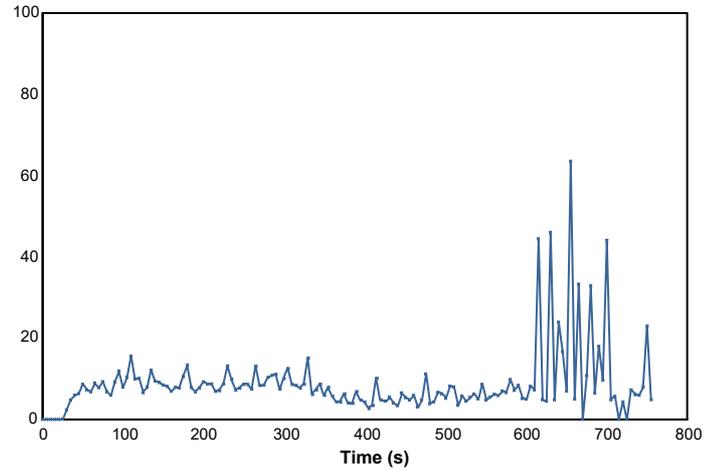
**Test Number :** 21-005942  
**Issue Date :** 08/12/2021  
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**Specimen :** 1

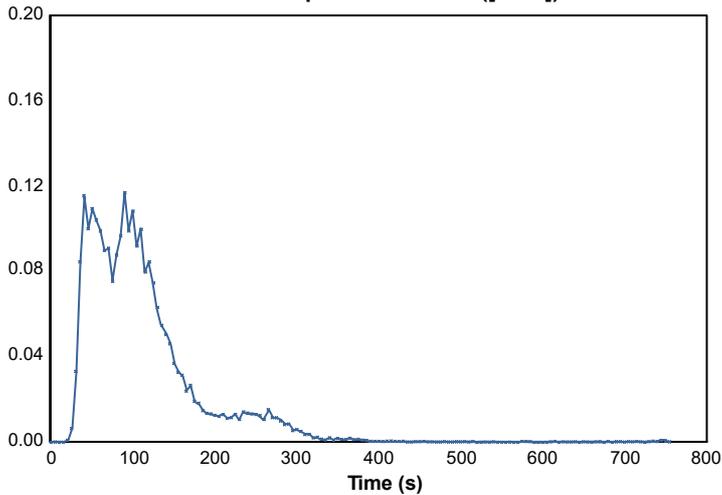
**Heat release rate (kW/m<sup>2</sup>)**



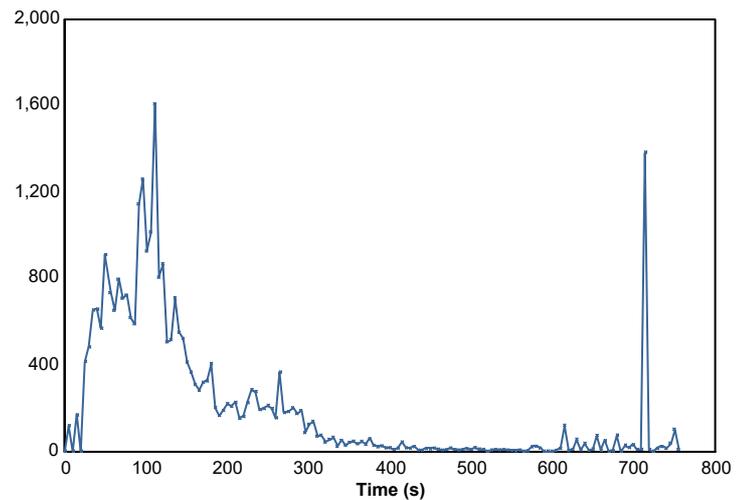
**Effective heat of combustion (MJ/kg)**



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



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



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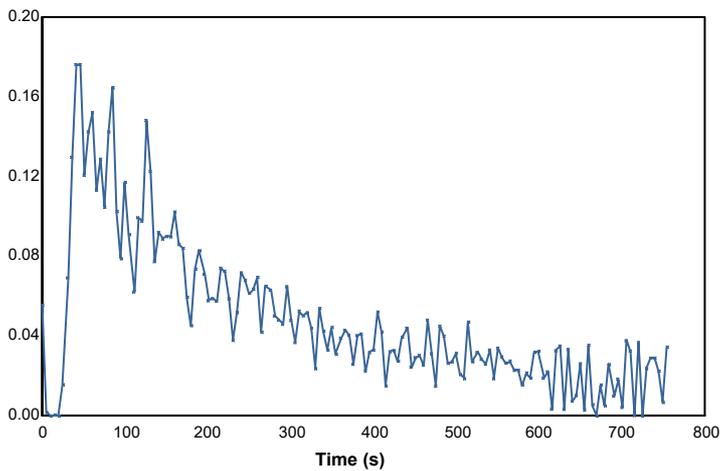
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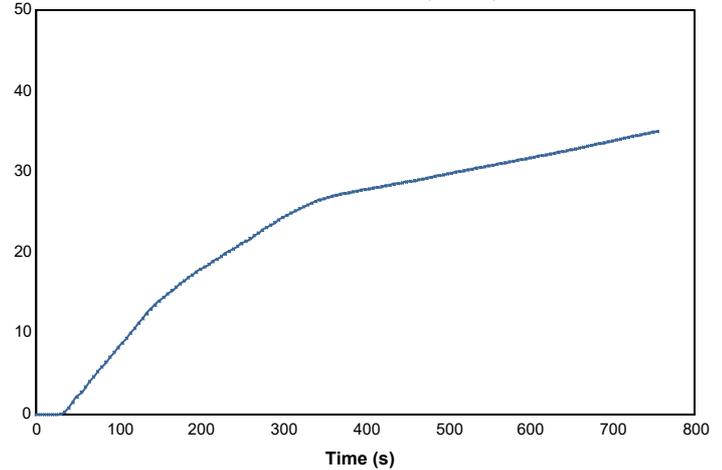
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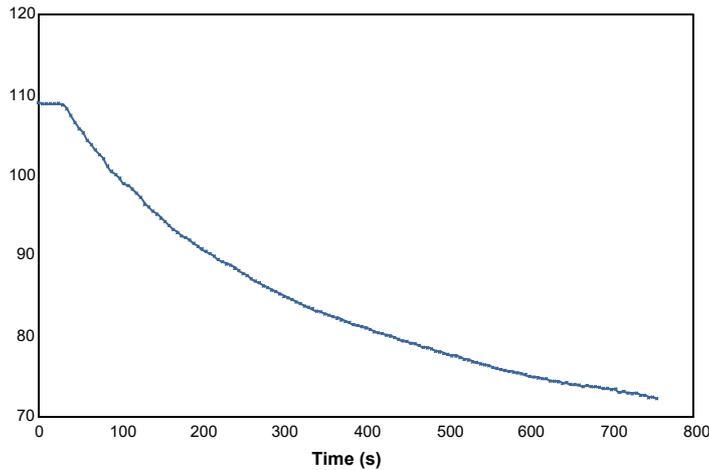
Mass loss rate (g/s)



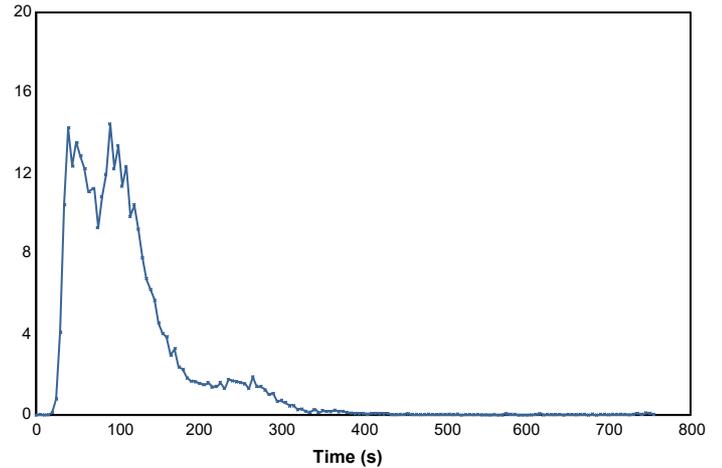
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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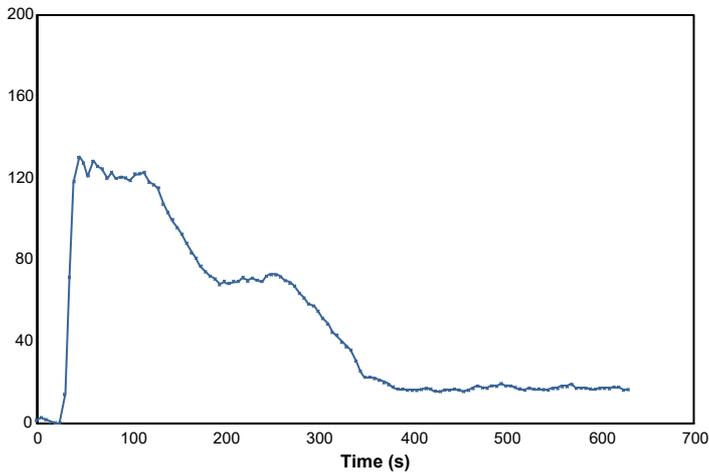
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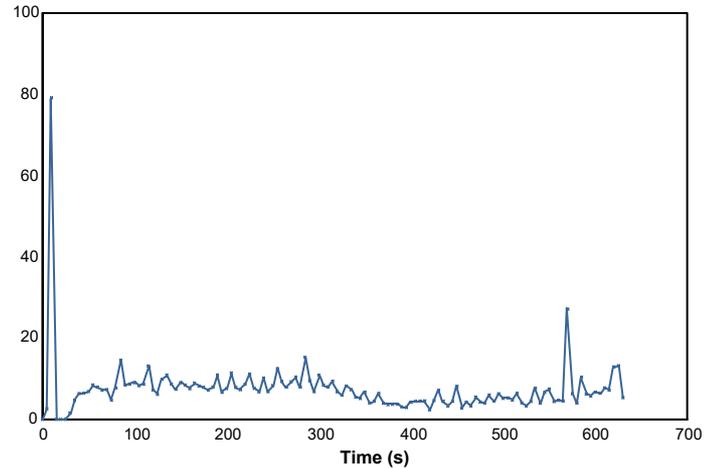
**Test Number :** 21-005942  
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**Specimen :** 2

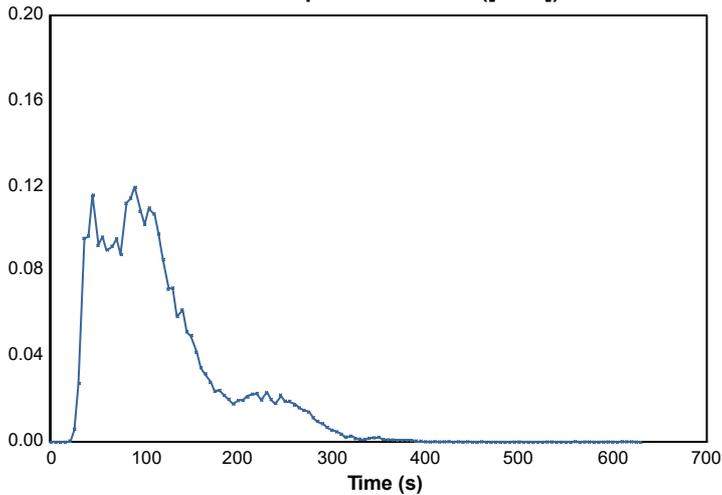
**Heat release rate (kW/m<sup>2</sup>)**



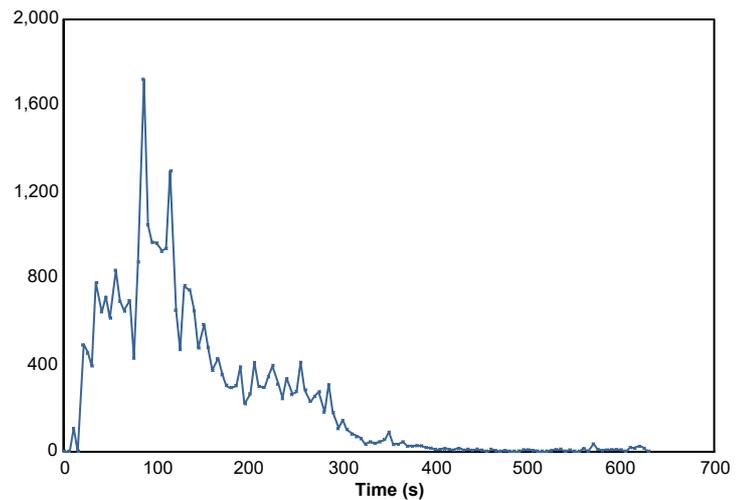
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>3</sup>/s])**



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



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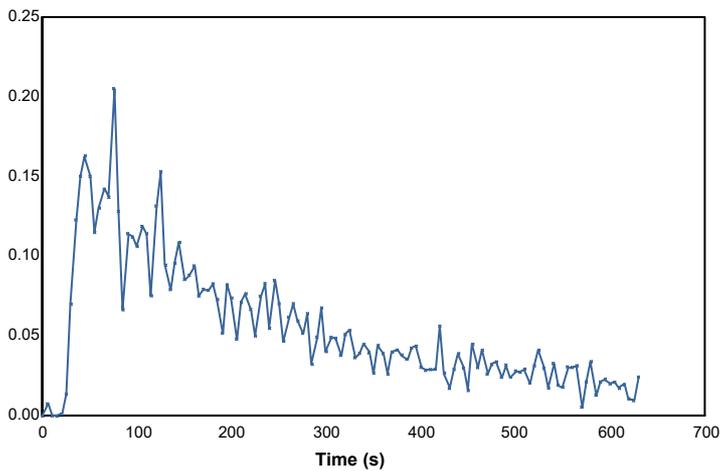
Phone (03) 9371 2400

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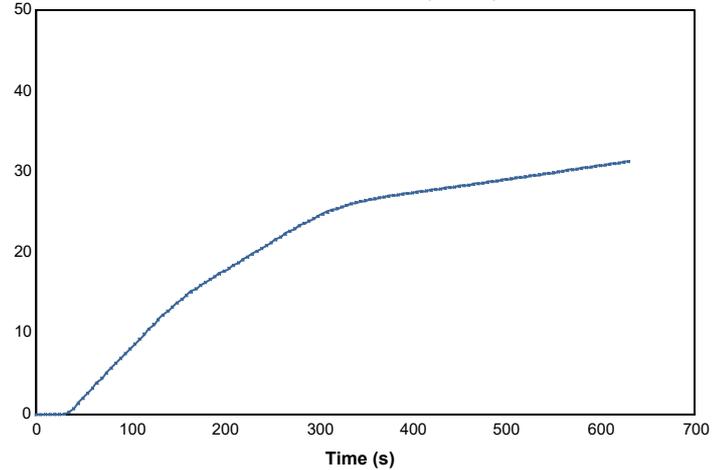
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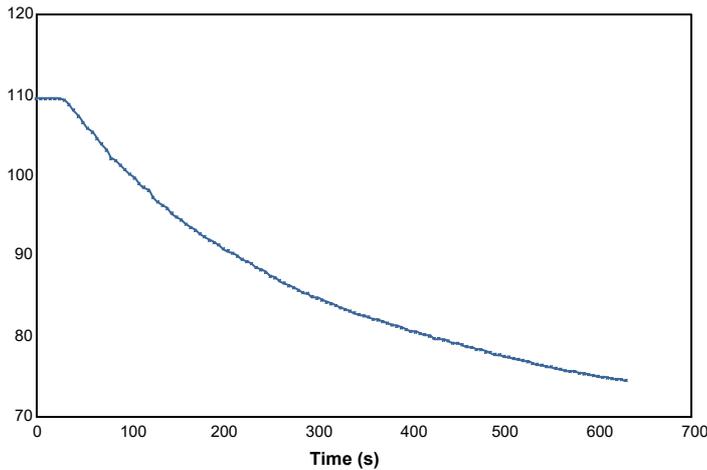
**Mass loss rate (g/s)**



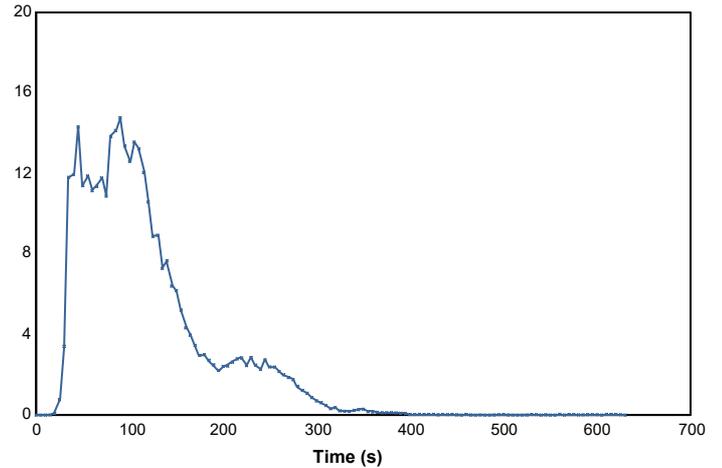
**Total heat released (MJ/m²)**



**Mass (g)**



**Rate of smoke release ([m²/s]/m²)**



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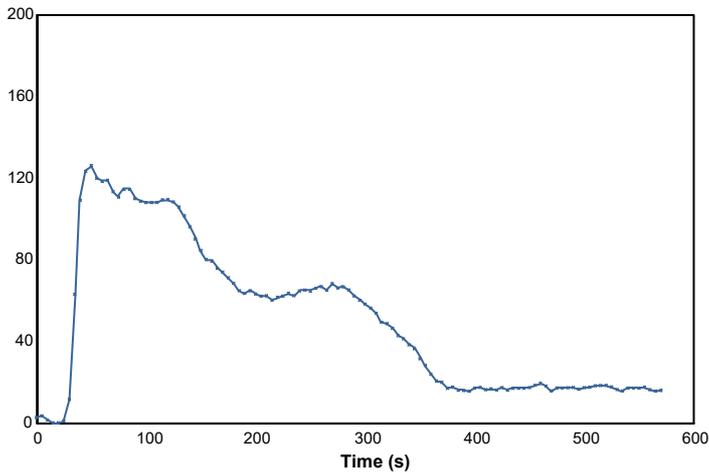
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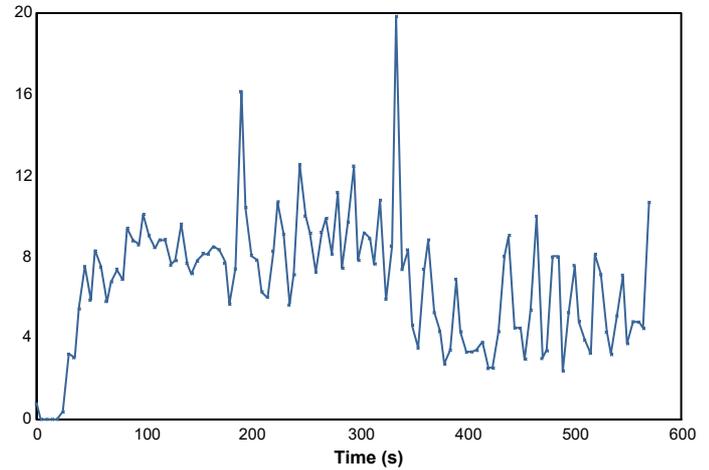
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**Specimen :** 3

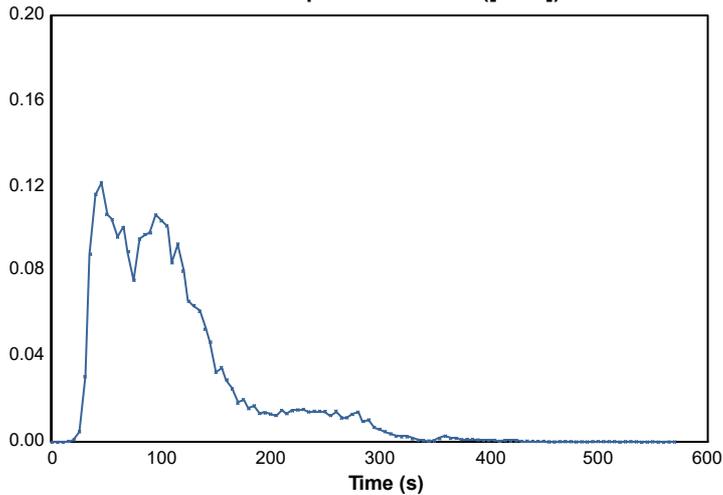
**Heat release rate (kW/m<sup>2</sup>)**



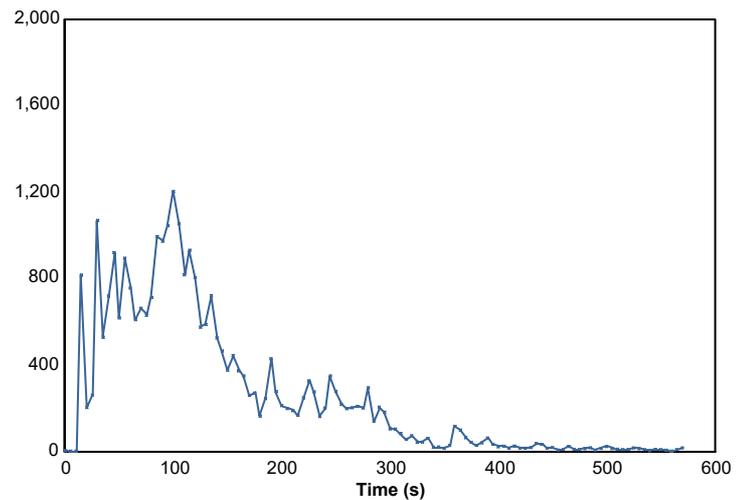
**Effective heat of combustion (MJ/kg)**



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



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



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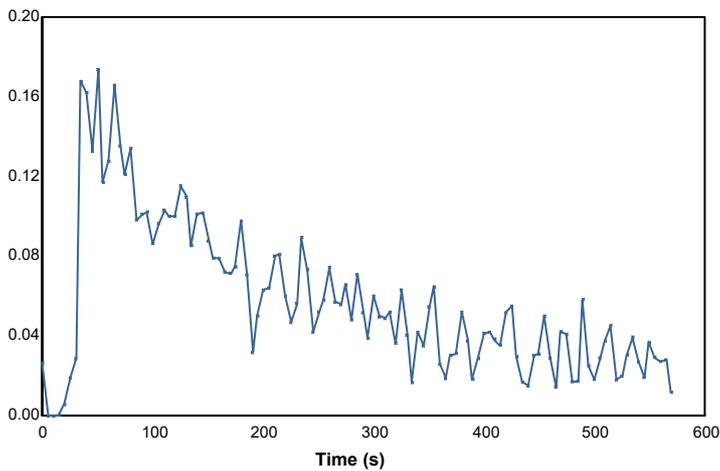
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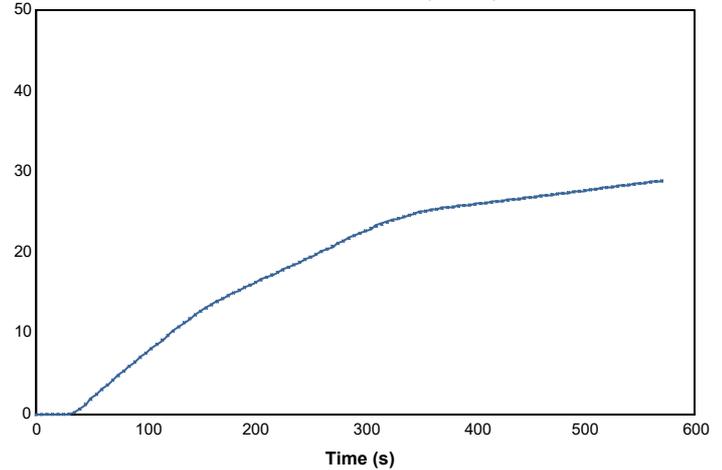
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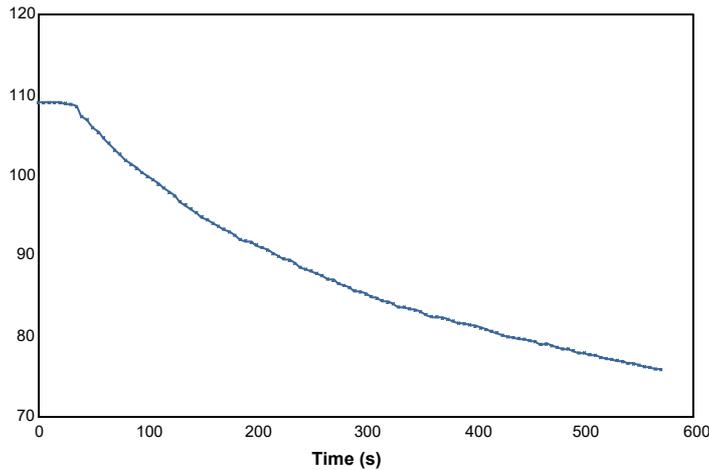
Mass loss rate (g/s)



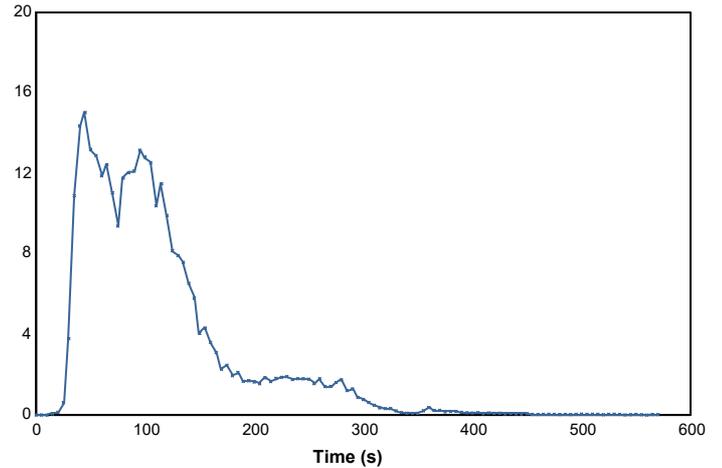
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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