

# 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 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 :** 21-001370  
**Issue Date :** 20/04/2021  
**Print Date :** 20/04/2021

**Sponsor Product** Clients Ref : :DLW Linoleum 2.5mm Neocare"  
Vinyl Wallcovering  
Colour : Black with marble effect  
End Use : Wall Covering  
Nominal Composition : Homogenous PVC  
Nominal Mass per Unit Area/Density : 2900g/m2  
Nominal Thickness : 2.5mm

Product Group Number Classification : 3

Average Specific Extinction Area : 179.6 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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Vinyl Wallcovering  
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End Use : Wall Covering  
Nominal Composition : Homogenous PVC  
Nominal Mass per Unit Area/Density : 2900g/m<sup>2</sup>  
Nominal Thickness : 2.5mm

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

Date Tested 19-04-2021  
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	64.9	52.3	54.1	57.1	kW/m <sup>2</sup>
Average Specific extinction area	175.5	177.2	186.3	179.6	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	53	48	50	50	sec
Test duration	1133	1301	1300	1245	sec
Peak heat release after ignition	277.0	280.8	283.3	280.4	kW/m <sup>2</sup>
Average heat at 60 s	237.9	214.8	227.3	226.7	kW/m <sup>2</sup>

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APPROVED SIGNATORY



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

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Average heat at 180 s	211.8	196.0	211.1	206.3	kW/m <sup>2</sup>
Average heat at 300 s	153.4	145.8	154.5	151.2	kW/m <sup>2</sup>
Total heat released	70.0	65.6	67.6	67.7	MJ/m <sup>2</sup>
Average effective heat of combustion	15.3	14.2	14.6	14.7	MJ/kg
Initial thickness	12.5	12.5	12.5	12.5	mm
Initial mass	86.7	87.2	86.9	86.9	g
Mass remaining	49.6	49.7	49.3	49.5	g
Mass percentage pyrolysed	42.8	43.0	43.3	43.0	%
Mass loss	4.6	4.6	4.6	4.6	kg/m <sup>2</sup>
Average rate of mass loss	4.2	3.7	3.7	3.9	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 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

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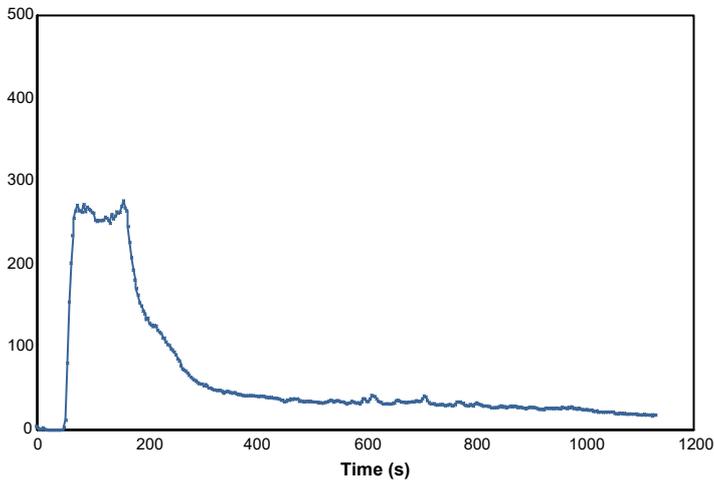
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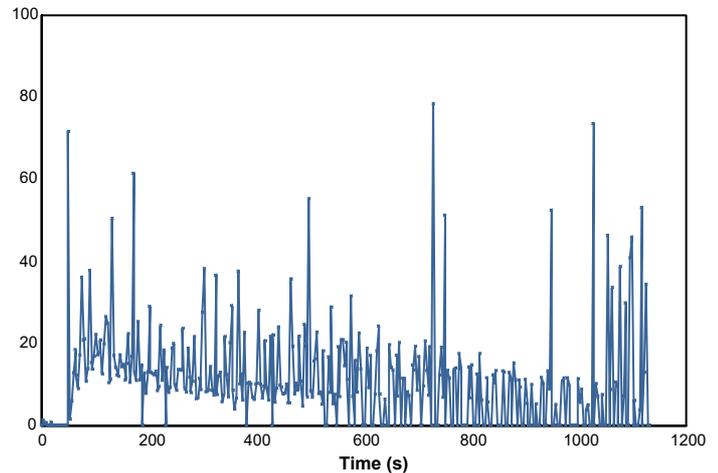
**Test Number :** 21-001370  
**Issue Date :** 19/04/2021  
**Print Date :** 20/04/2021

**Specimen :** 1

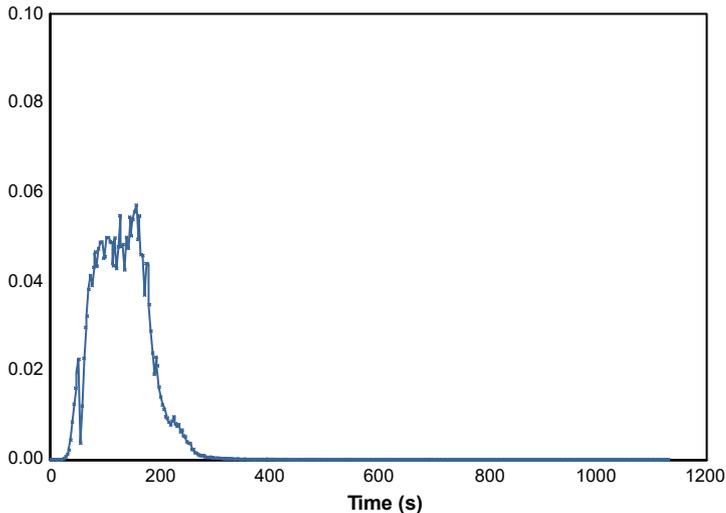
**Heat release rate (kW/m<sup>2</sup>)**



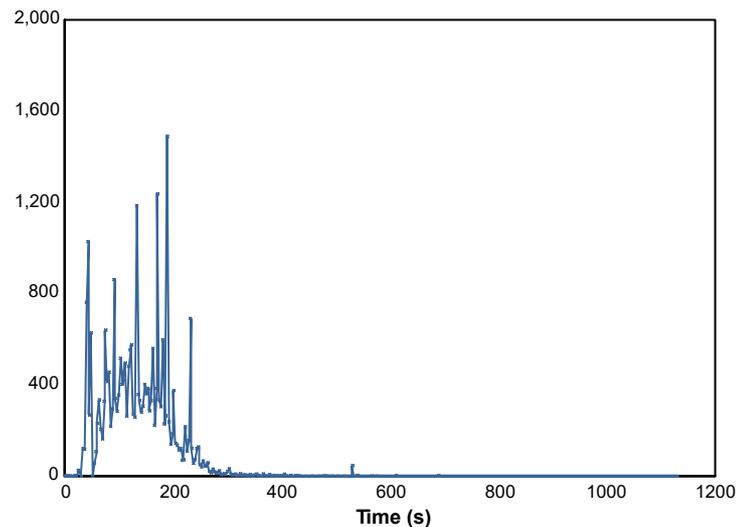
**Effective heat of combustion (MJ/kg)**



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



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



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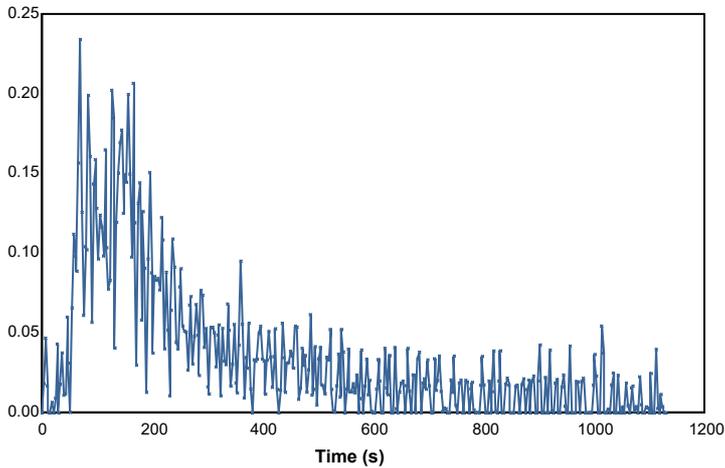
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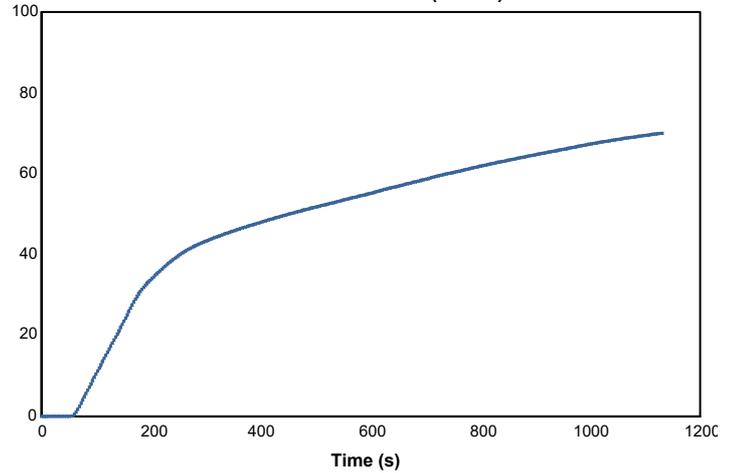
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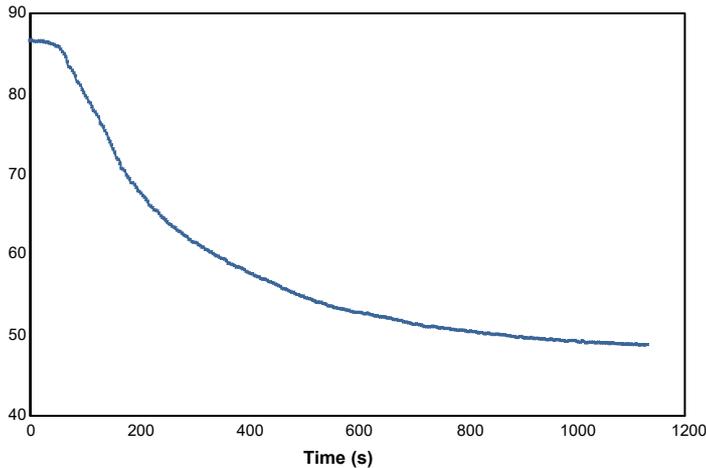
Mass loss rate (g/s)



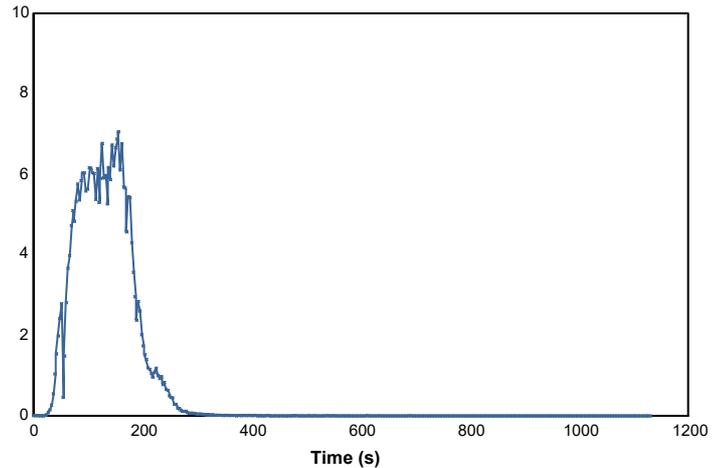
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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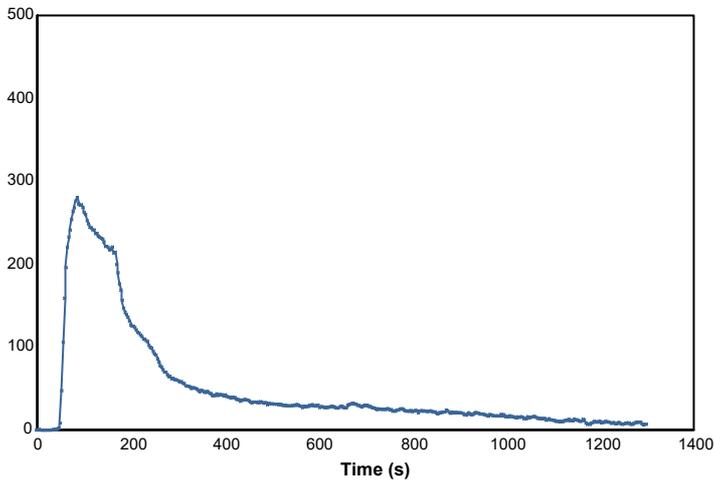
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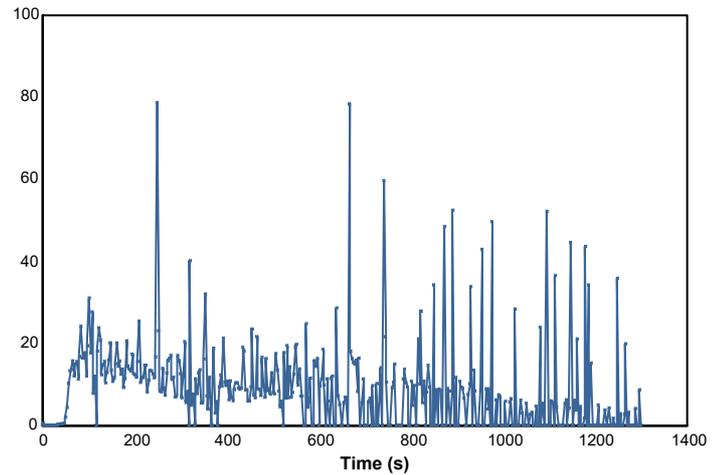
**Test Number :** 21-001370  
**Issue Date :** 19/04/2021  
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**Specimen :** 2

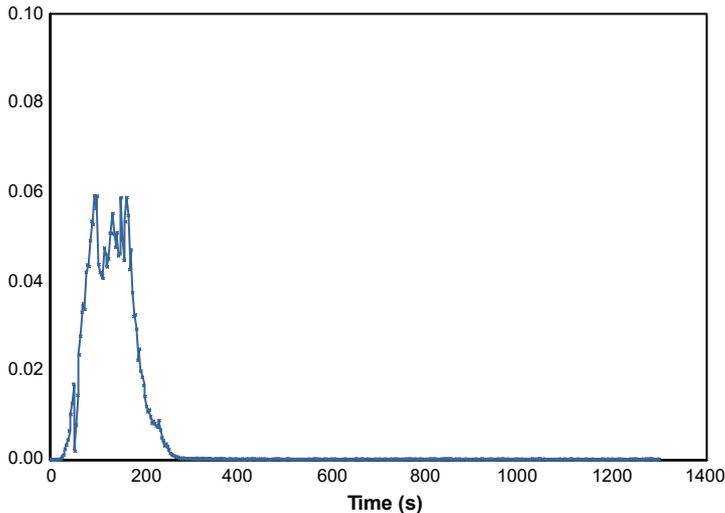
**Heat release rate (kW/m<sup>2</sup>)**



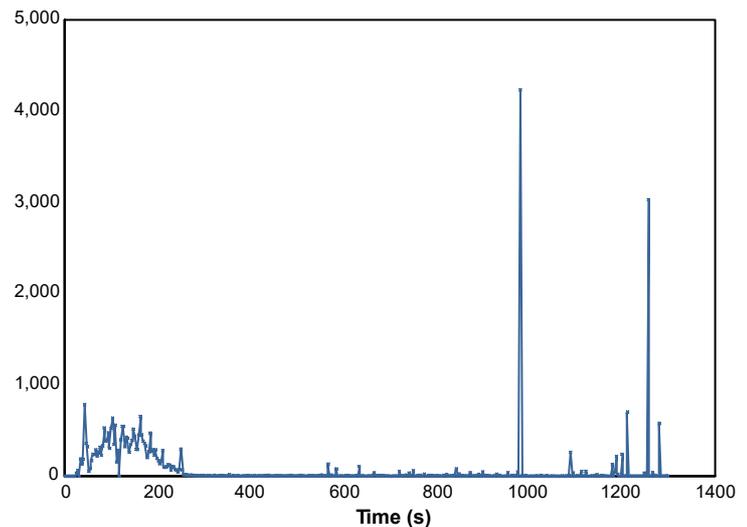
**Effective heat of combustion (MJ/kg)**



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



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



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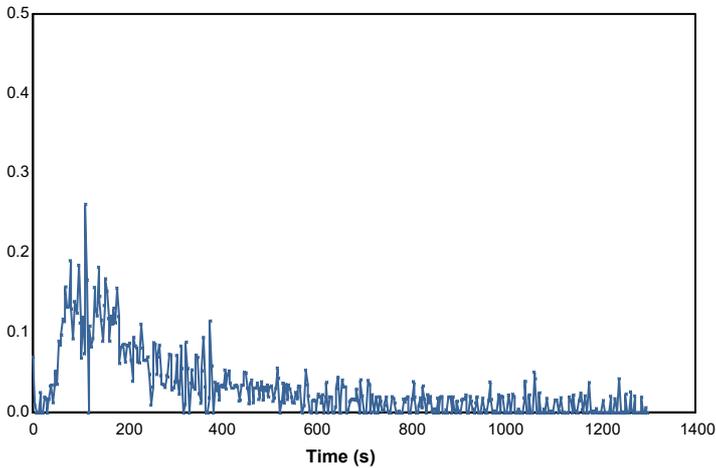
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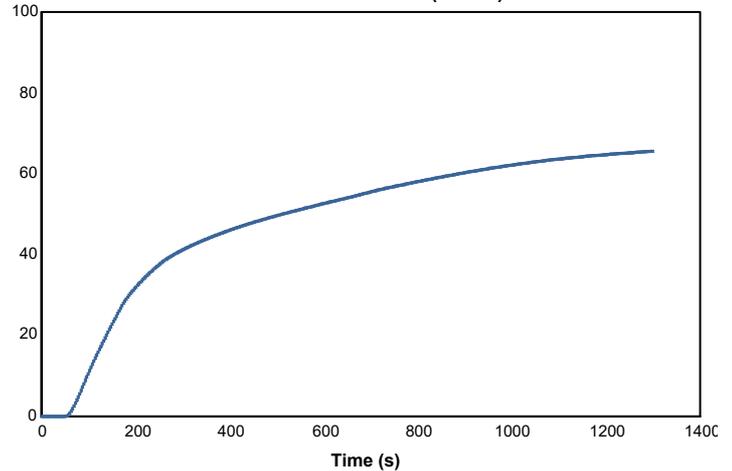
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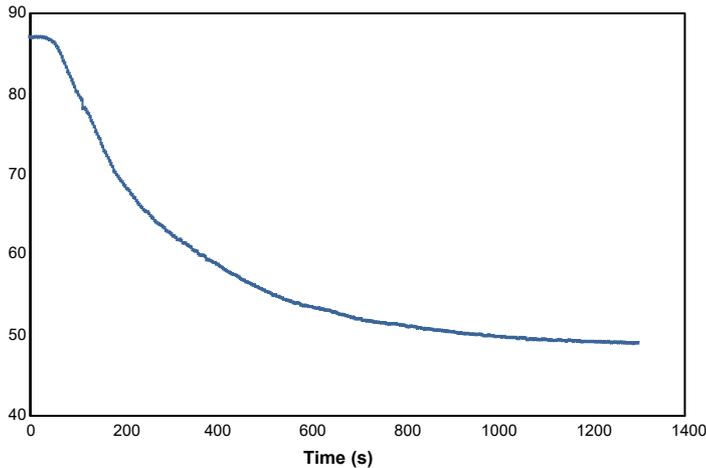
Mass loss rate (g/s)



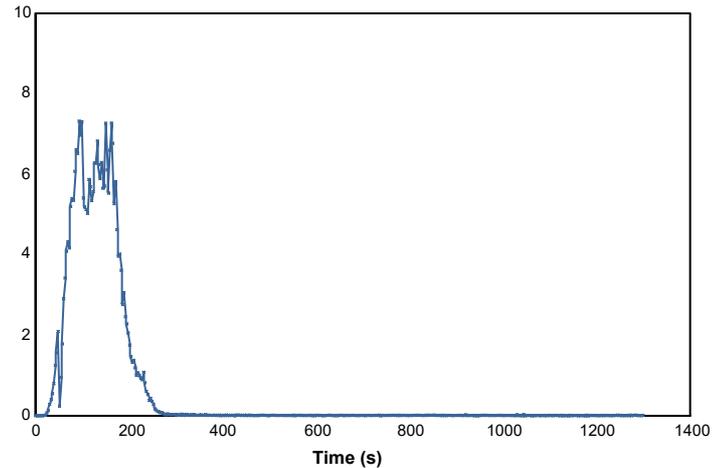
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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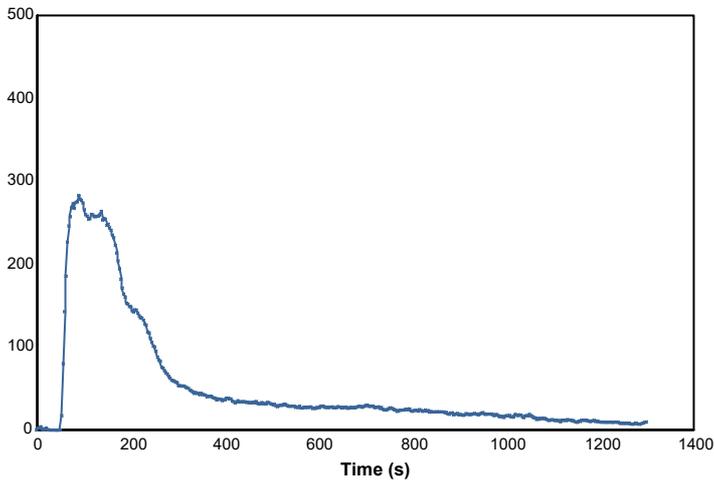
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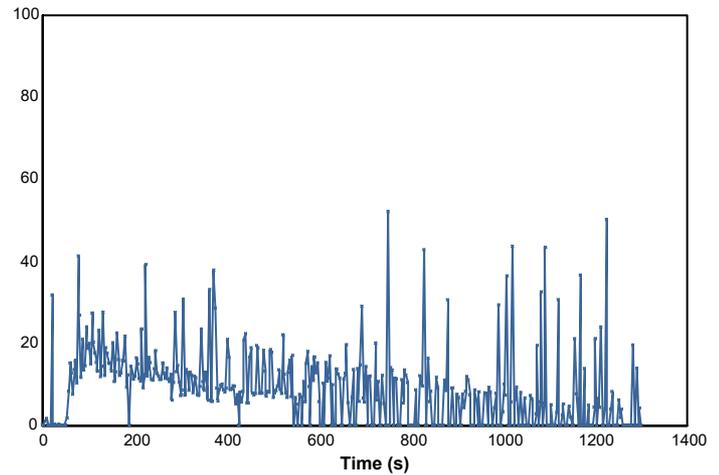
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**Specimen :** 3

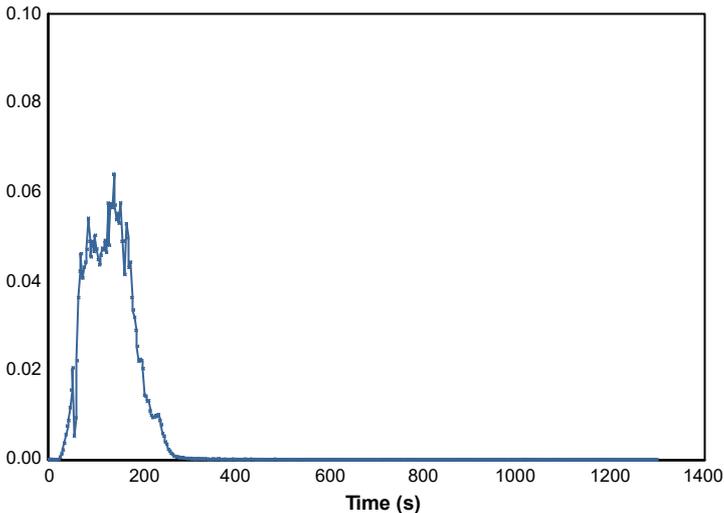
**Heat release rate (kW/m<sup>2</sup>)**



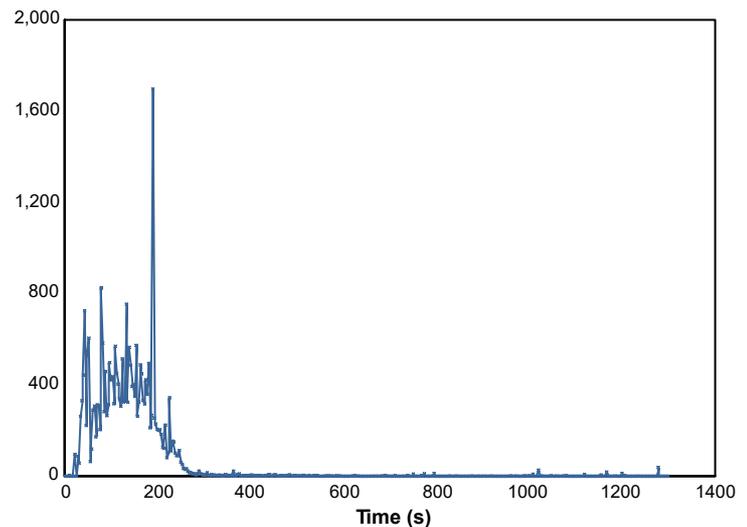
**Effective heat of combustion (MJ/kg)**



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



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



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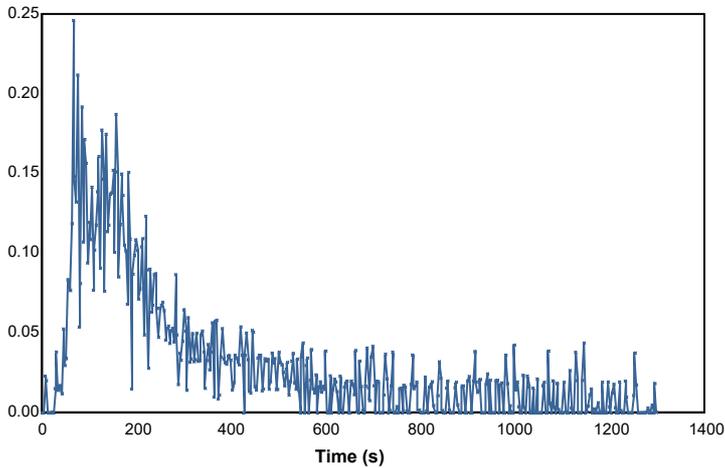
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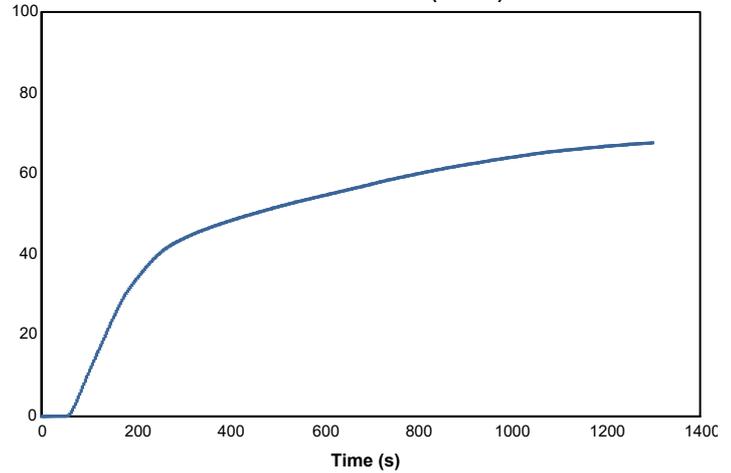
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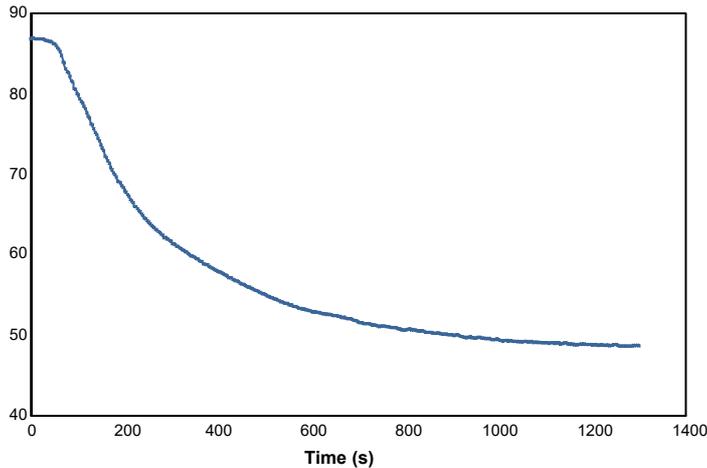
Mass loss rate (g/s)



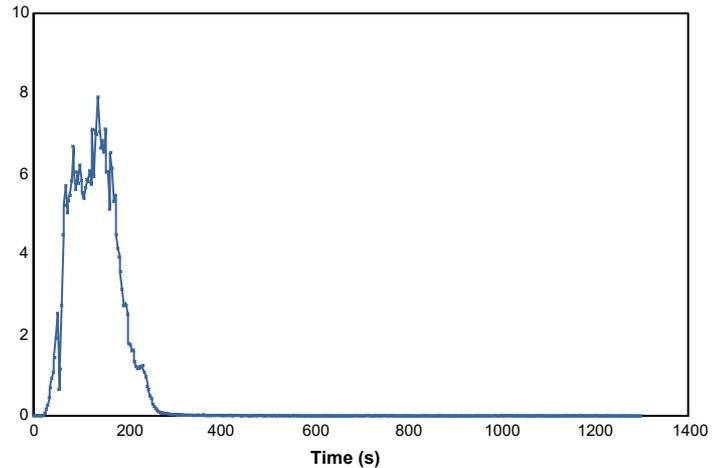
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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