

# 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 :** NSW Leather Co Pty Ltd  
16 Anderson Street  
Banksmeadow NSW 2019

**Test Number :** 16-000854  
**Issue Date :** 03/03/2016  
**Print Date :** 3/03/2016

**Sample Description** Clients Ref : "SOVEREIGN"  
Leather Swatches  
Colour : Red  
End Use : Furniture, Wall Panels etc  
Nominal Composition : Leather Cowhide Bovine  
Nominal Mass per Unit Area/Density : Approx: 1030g/m<sup>2</sup>  
Nominal Thickness : 1.2-1.4mm

### AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	35.7	37.3	37.0	36.7	kW/m <sup>2</sup>
Average Specific extinction area	34.5	30.4	29.6	31.5	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	24	24	24	24	L/sec
Time to sustained flaming	27	24	29	27	sec
Test duration	765	774	767	769	sec

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- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356

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*Michael A. Jackson*  
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Peak heat release after ignition	106.0	101.6	121.9	109.8	kW/m <sup>2</sup>
Average heat at 60 s	89.8	84.7	96.6	90.4	kW/m <sup>2</sup>
Average heat at 180 s	70.3	71.7	71.6	71.2	kW/m <sup>2</sup>
Average heat at 300 s	61.2	62.5	60.7	61.5	kW/m <sup>2</sup>
Total heat released	26.5	27.9	27.3	27.2	MJ/m <sup>2</sup>
Average effective heat of combustion	10.1	10.3	10.6	10.3	MJ/kg
Initial thickness	7.5	7.5	7.5	7.5	mm
Initial mass	89.3	92.9	91.5	91.2	g
Mass remaining	67.7	70.7	70.1	69.5	g
Mass percentage pyrolysed	24.2	23.9	23.4	23.8	%
Mass loss	21.6	22.2	21.4	21.7	g
Average rate of mass loss	3.5	3.6	3.5	3.5	g/m <sup>2</sup> .s

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 reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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 loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

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

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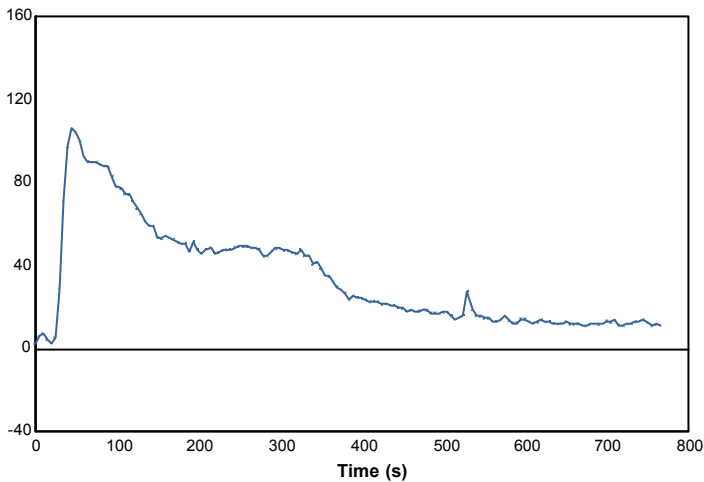
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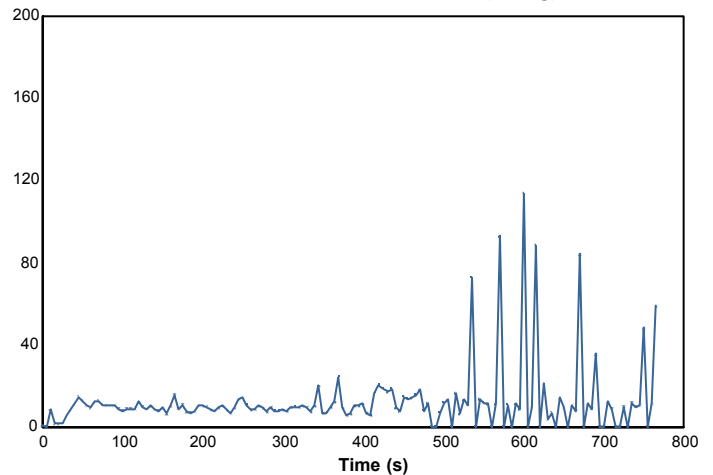
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**Issue Date :** 03/03/2016  
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**Specimen :** 1

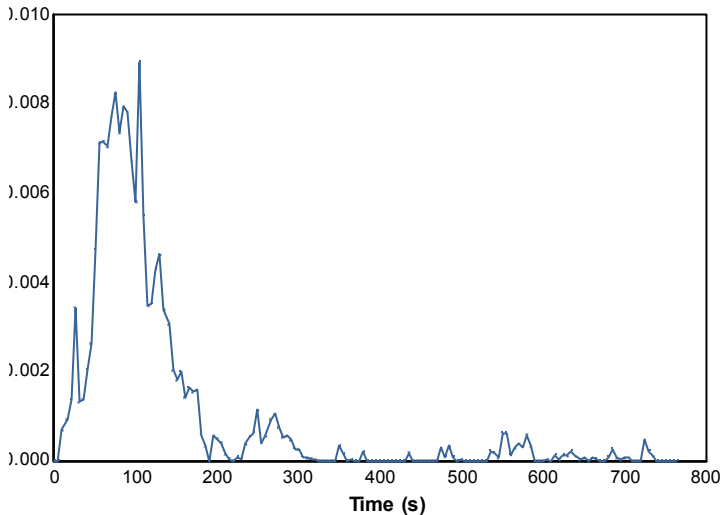
**Heat release rate (kW/m<sup>2</sup>)**



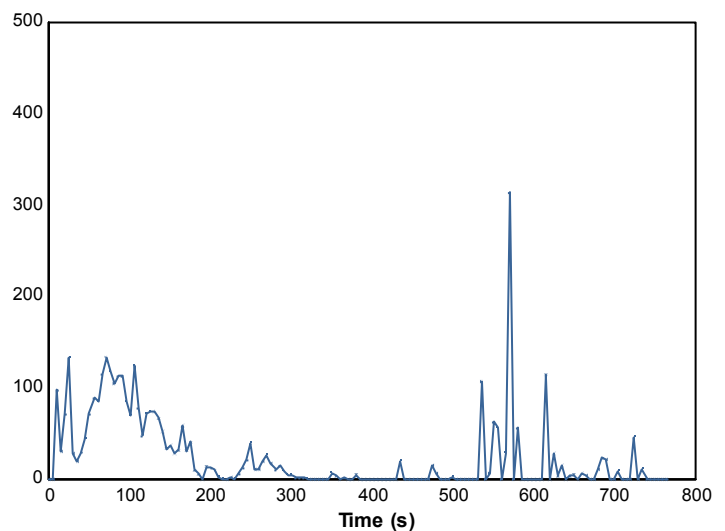
**Effective heat of combustion (MJ/kg)**



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



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



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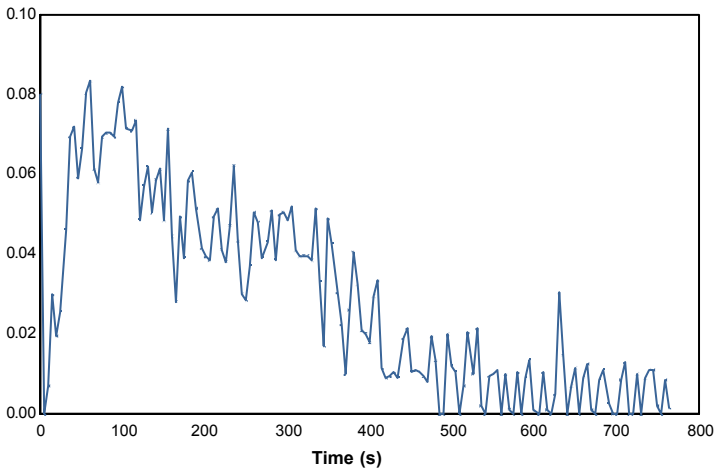
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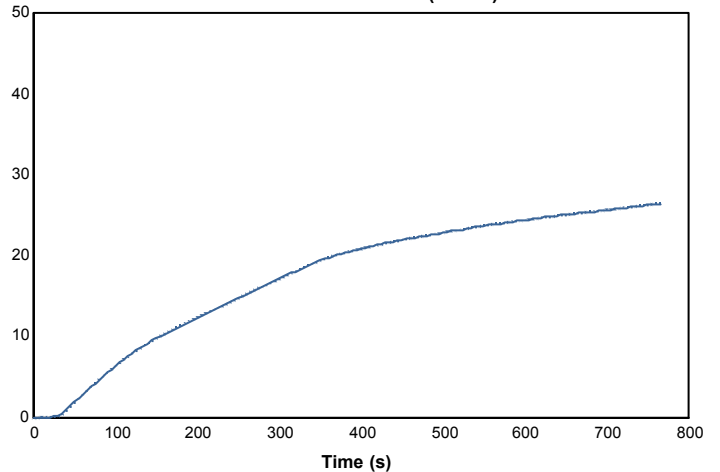
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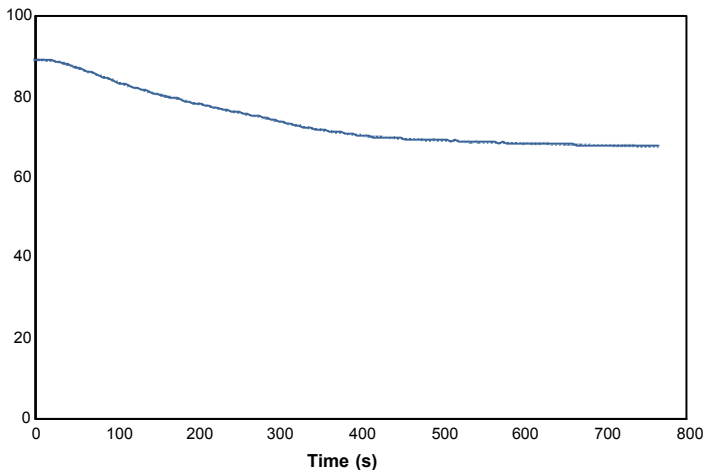
Mass loss rate (g/s)



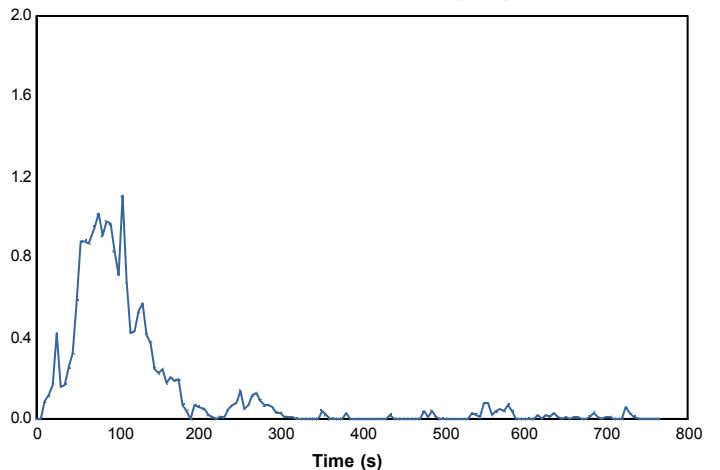
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)/m²



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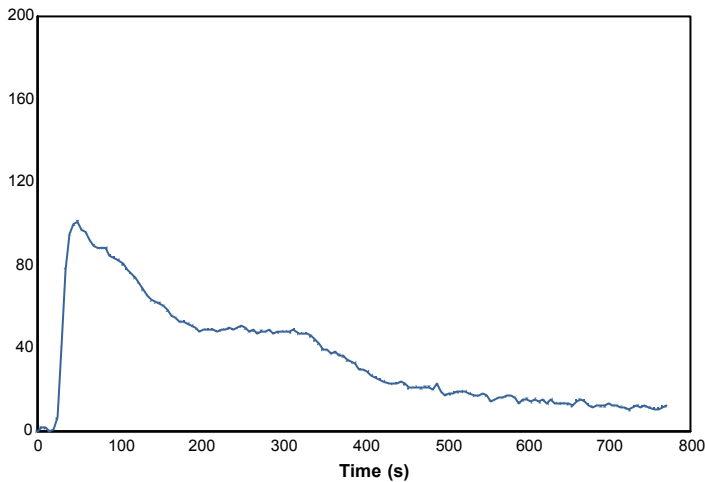
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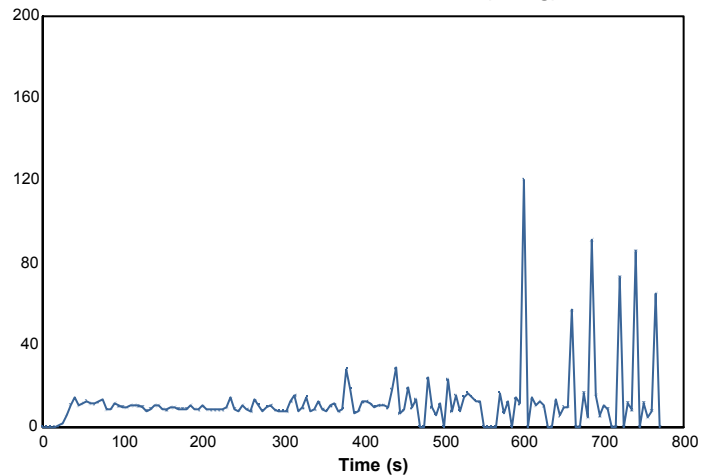
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**Specimen :** 2

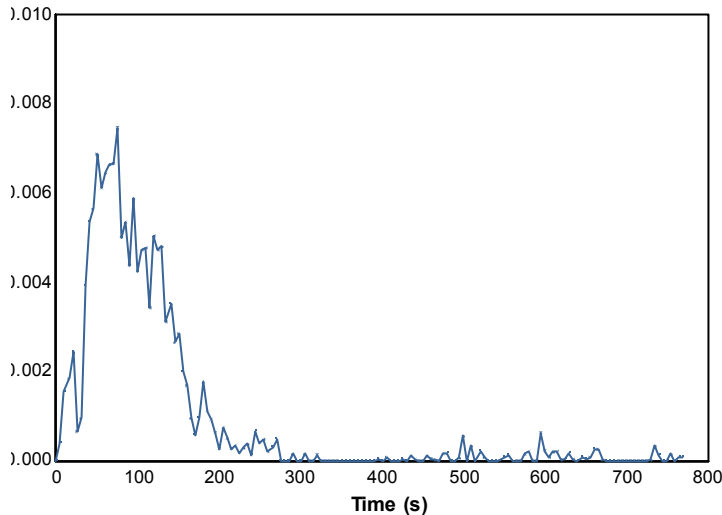
**Heat release rate (kW/m<sup>2</sup>)**



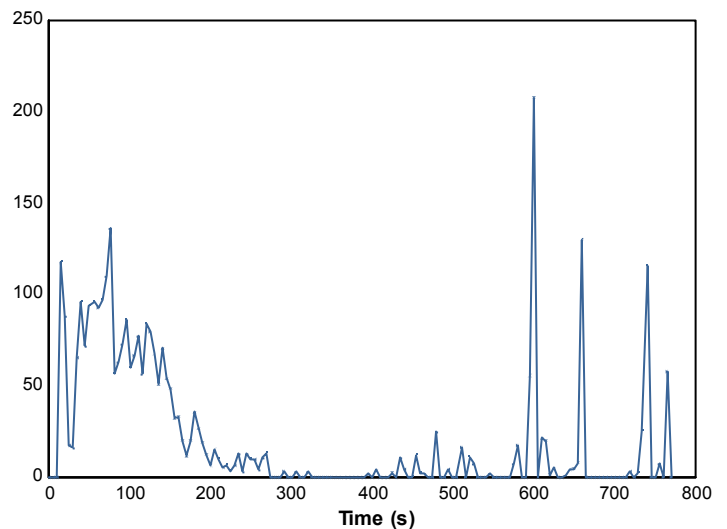
**Effective heat of combustion (MJ/kg)**



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



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



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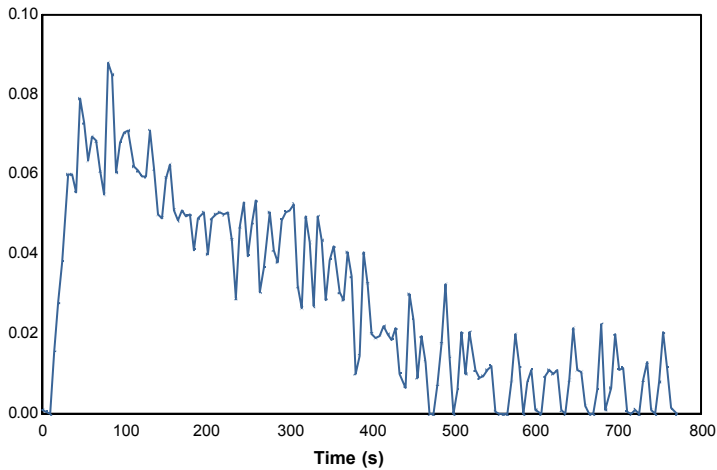
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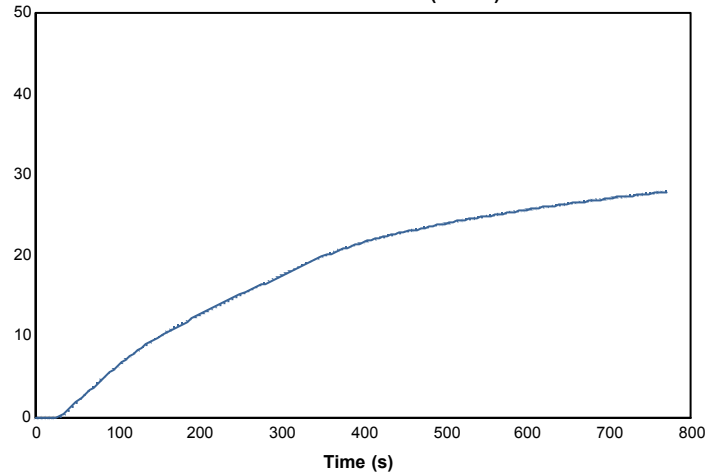
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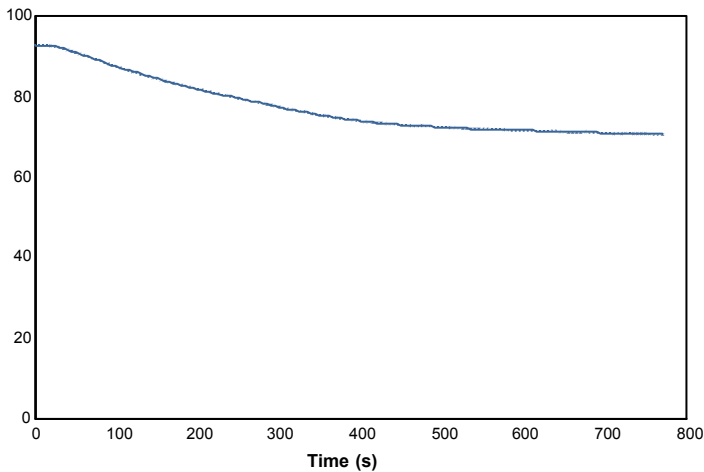
Mass loss rate (g/s)



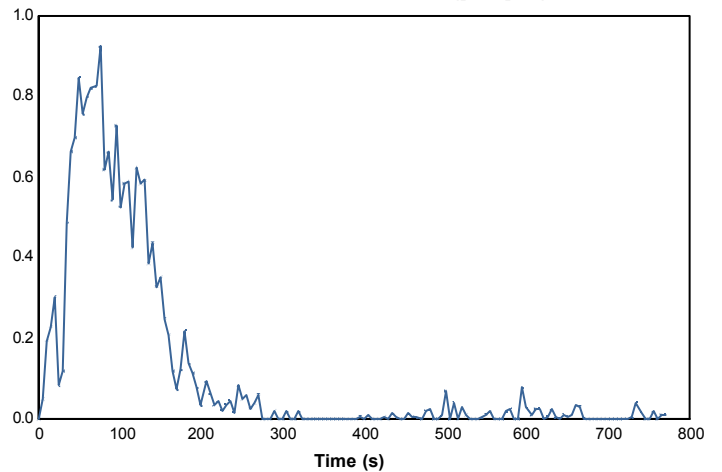
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s)



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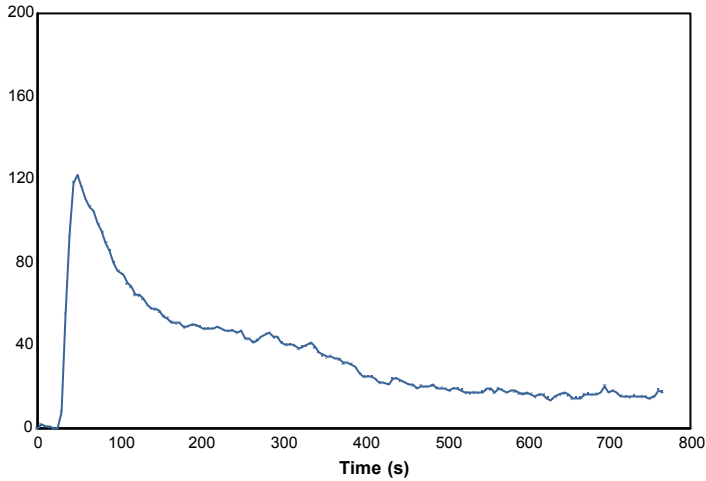
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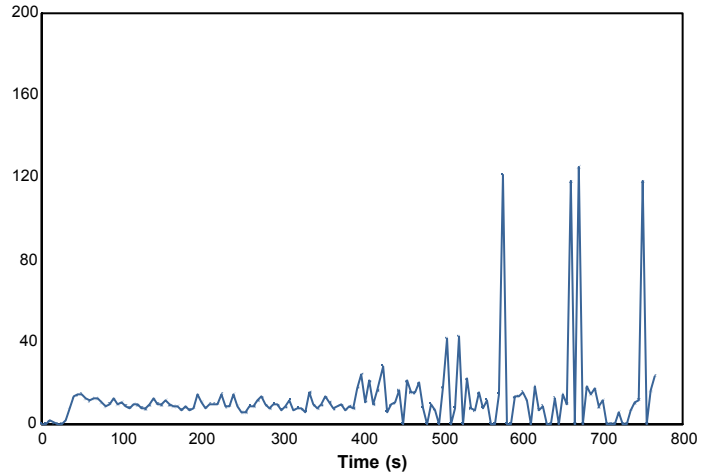
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**Specimen :** 3

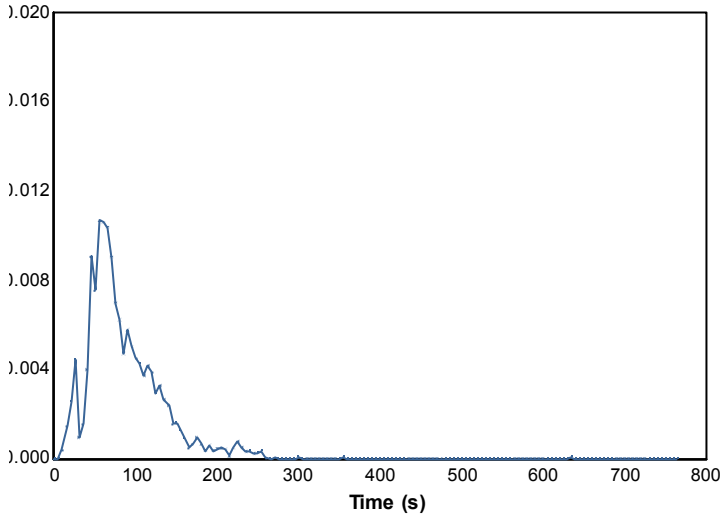
**Heat release rate (kW/m<sup>2</sup>)**



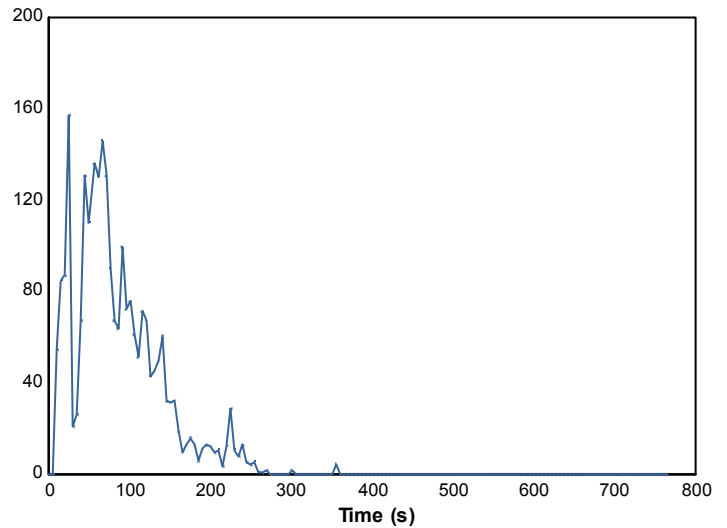
**Effective heat of combustion (MJ/kg)**



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



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



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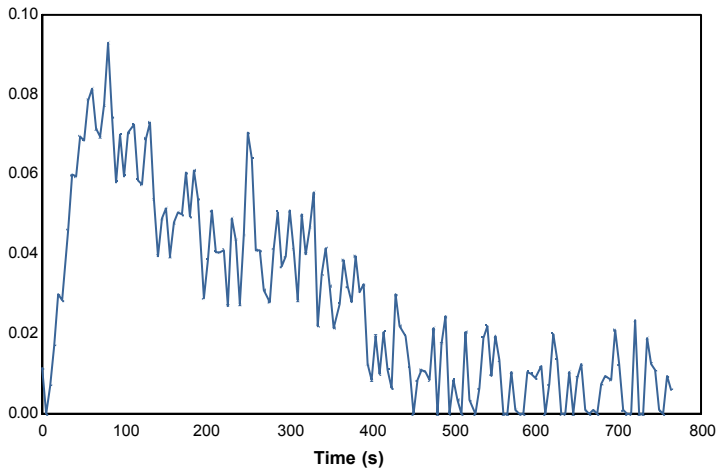
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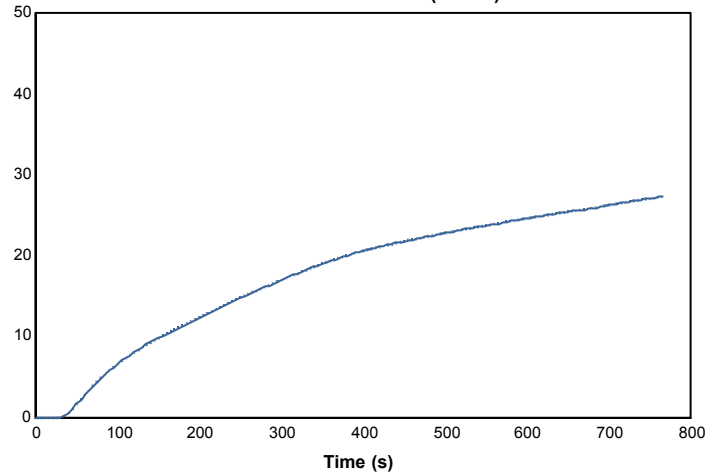
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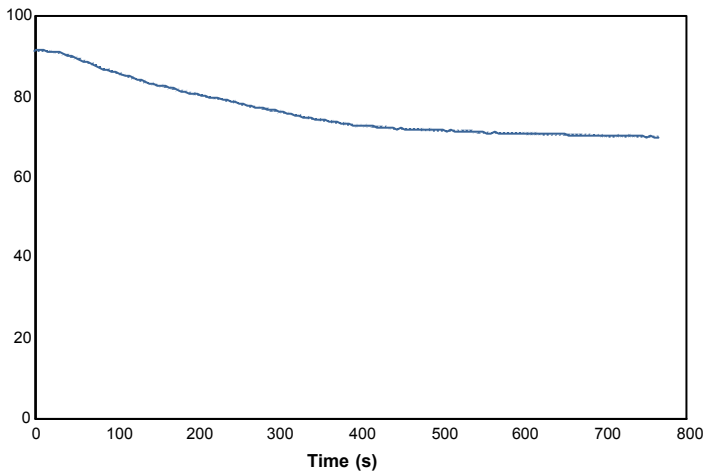
Mass loss rate (g/s)



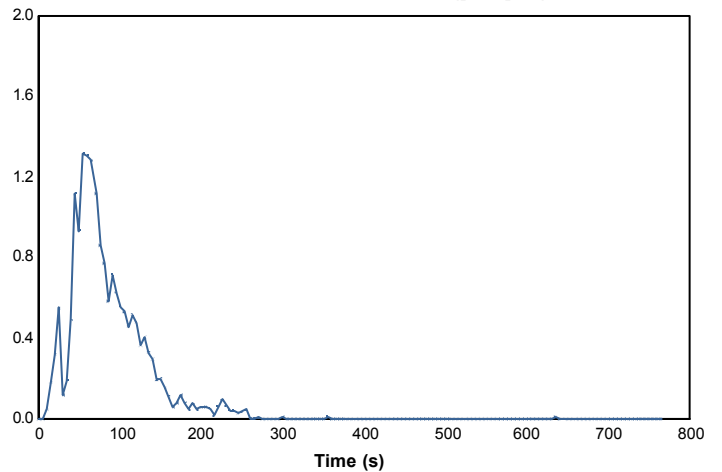
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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