

# 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 :** Woven Image Pty Ltd  
37-39 Chard Road  
Brookvale NSW 2100

**Test Number :** 16-005418  
**Issue Date :** 14/10/2016  
**Print Date :** 17/10/2016

**Sample Description** Clients Ref : "Lux Wall P"  
Non woven material  
Colour : Brown  
End Use : Wallcovering  
Nominal Composition : 50% Flax 50% Polypropylene

**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	60.0	56.3	58.9	58.4	kW/m <sup>2</sup>
Average Specific extinction area	38.7	35.6	48.7	41.0	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	7	7	7	7	sec
Test duration	409	455	450	438	sec
Peak heat release after ignition	210.0	227.4	239.5	225.6	kW/m <sup>2</sup>
Average heat at 60 s	152.9	156.8	157.9	155.9	kW/m <sup>2</sup>
Average heat at 180 s	110.4	117.7	116.1	114.7	kW/m <sup>2</sup>
Average heat at 300 s	76.7	80.1	81.6	79.5	kW/m <sup>2</sup>
Total heat released	24.1	25.1	26.0	25.1	MJ/m <sup>2</sup>
Average effective heat of combustion	10.7	10.4	10.9	10.7	MJ/kg

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- Mechanical Testing  
- Performance & Approvals Testing

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Initial thickness	12.0	12.0	12.0	12.0	mm
Initial mass	66.5	66.9	66.1	66.5	g
Mass remaining	48.4	46.7	46.6	47.2	g
Mass percentage pyrolysed	27.3	30.2	29.5	29.0	%
Mass loss	18.1	20.2	19.5	19.3	g
Average rate of mass loss	5.6	5.4	5.4	5.5	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 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 Professional Ultra Clear PRO 880 wallcovering adhesive 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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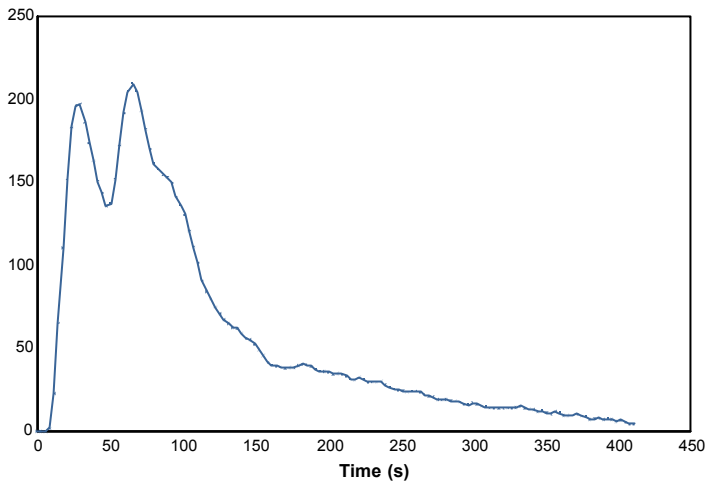
## TEST REPORT

**Client :** Woven Image Pty Ltd  
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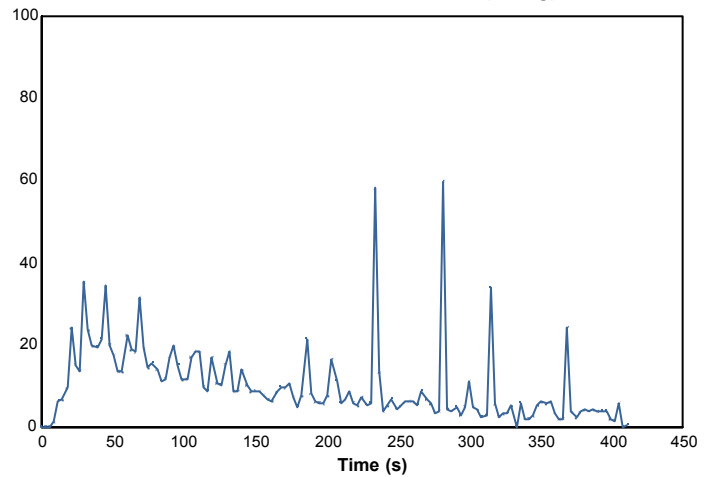
**Test Number :** 16-005418  
**Issue Date :** 14/10/2016  
**Print Date :** 17/10/2016

**Specimen :** 1

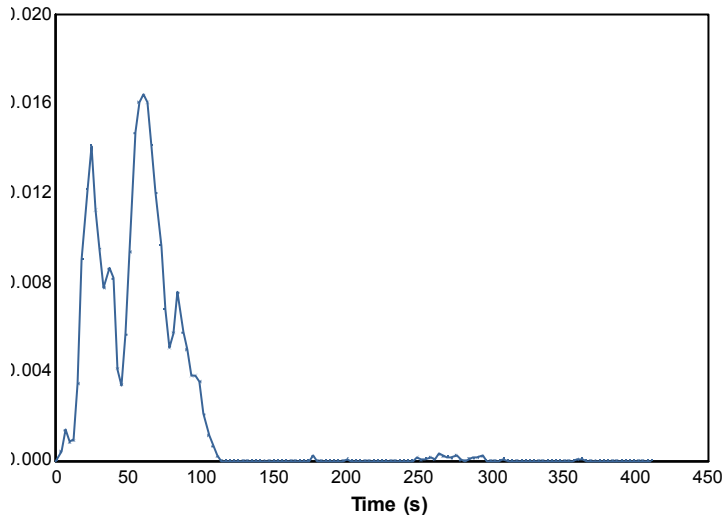
**Heat release rate (kW/m<sup>2</sup>)**



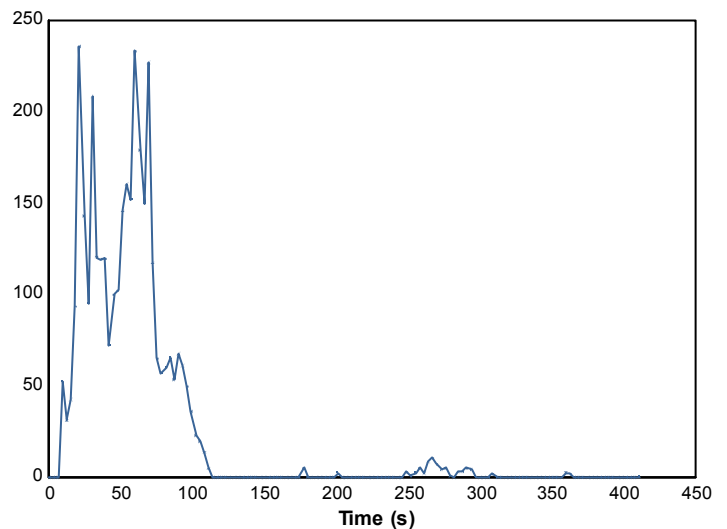
**Effective heat of combustion (MJ/kg)**



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



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



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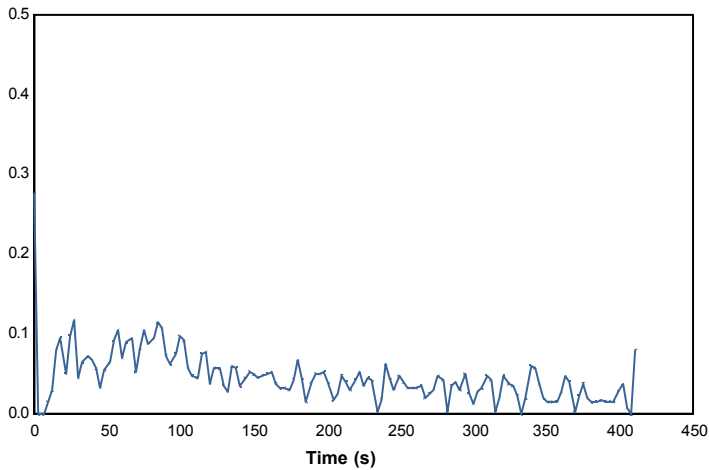
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

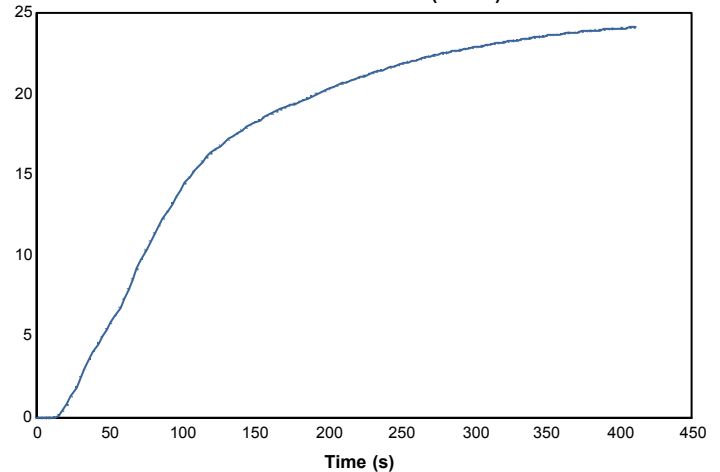
**Client :** Woven Image Pty Ltd  
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**Test Number :** 16-005418  
**Issue Date :** 14/10/2016  
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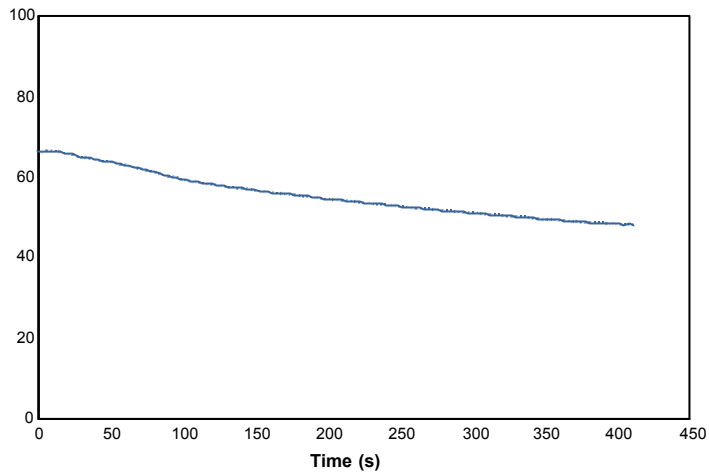
Mass loss rate (g/s)



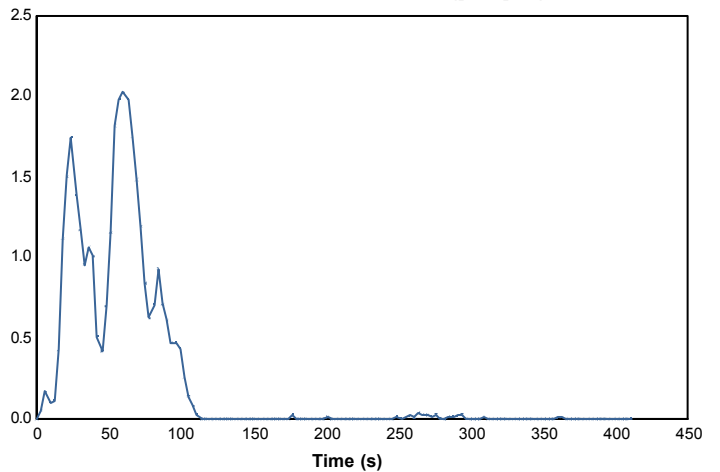
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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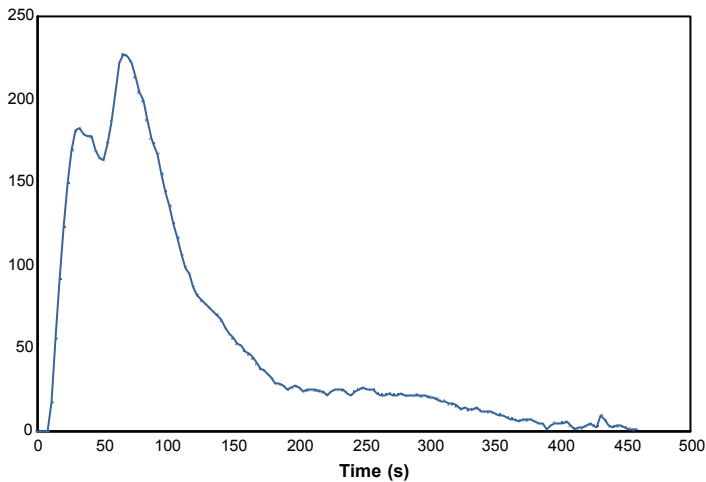
## TEST REPORT

**Client :** Woven Image Pty Ltd  
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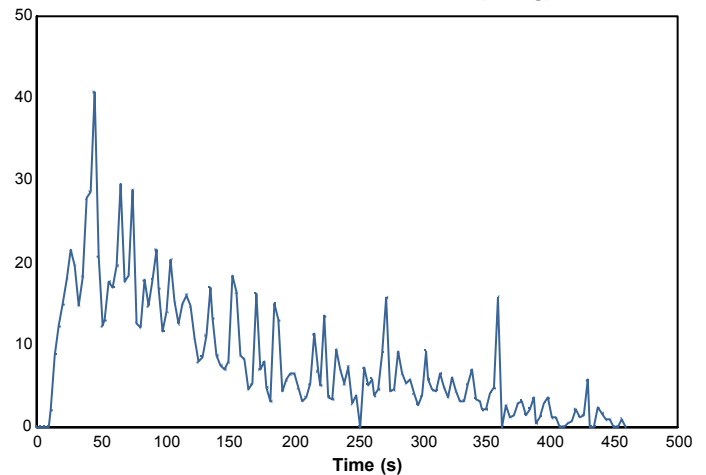
**Test Number :** 16-005418  
**Issue Date :** 14/10/2016  
**Print Date :** 17/10/2016

**Specimen :** 2

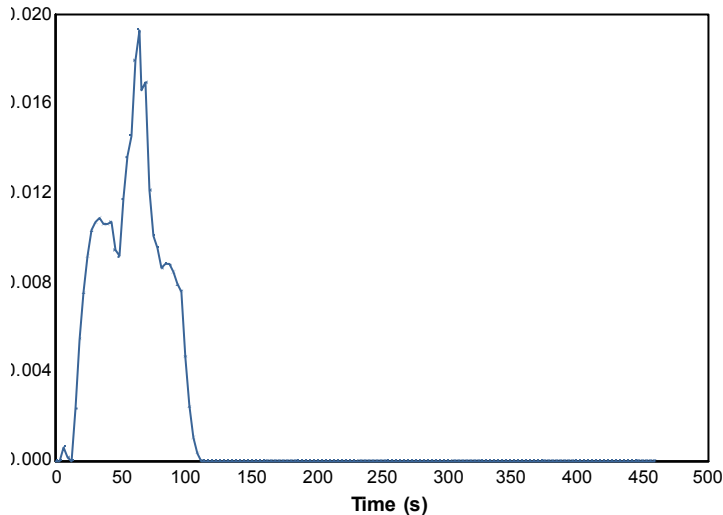
Heat release rate (kW/m<sup>2</sup>)



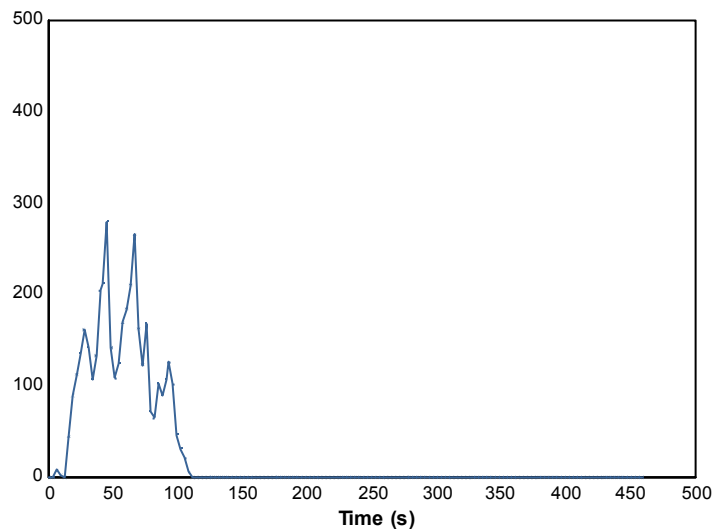
Effective heat of combustion (MJ/kg)



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



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



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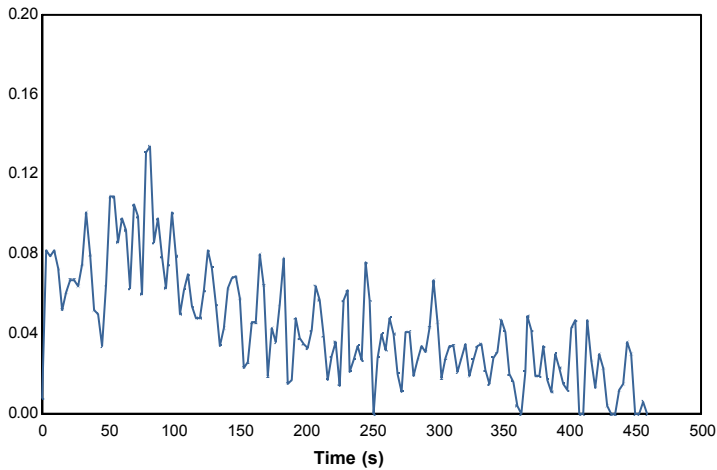
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

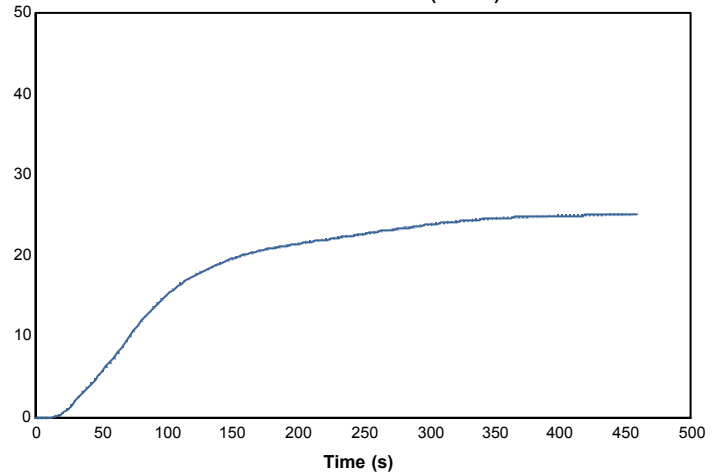
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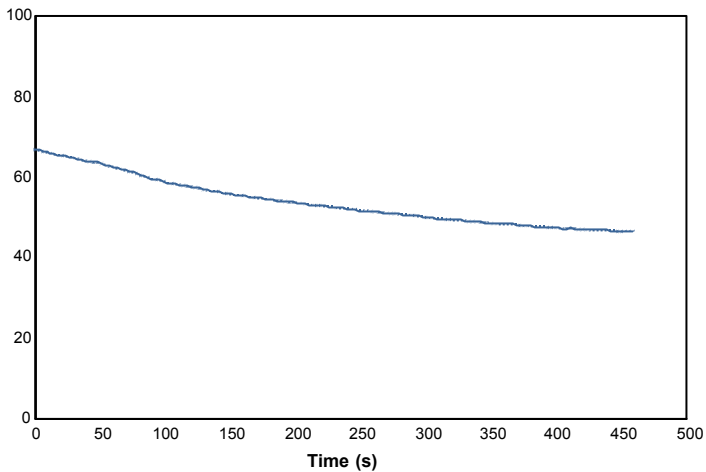
Mass loss rate (g/s)



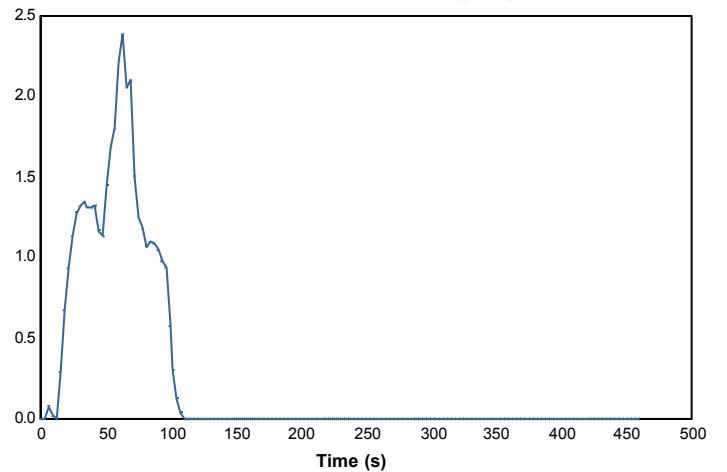
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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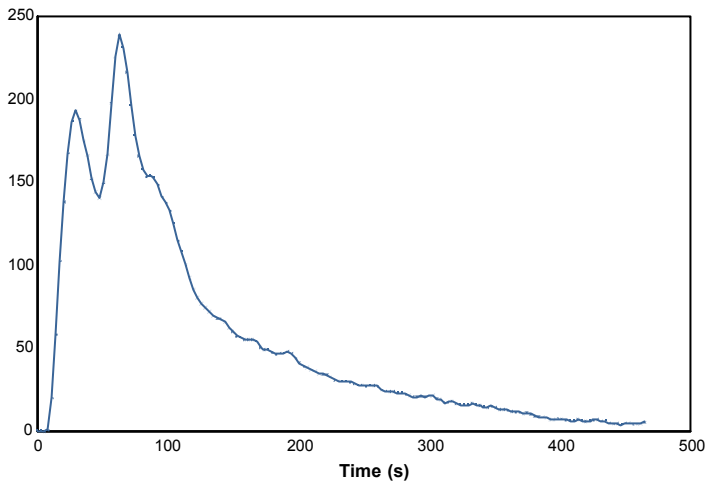
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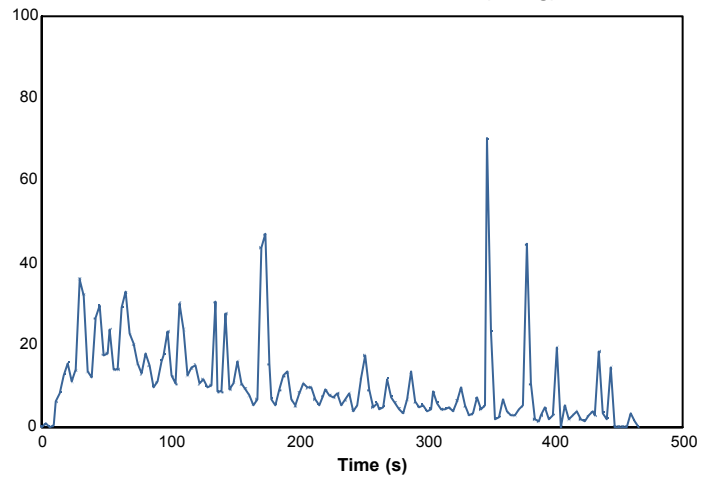
**Test Number :** 16-005418  
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**Specimen :** 3

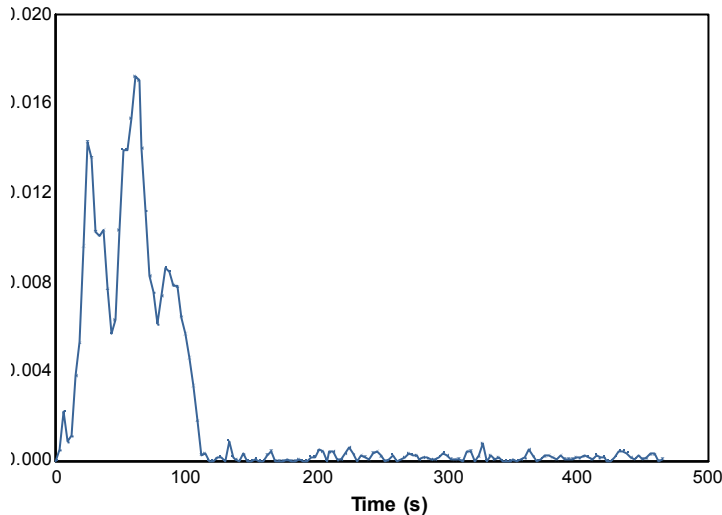
**Heat release rate (kW/m<sup>2</sup>)**



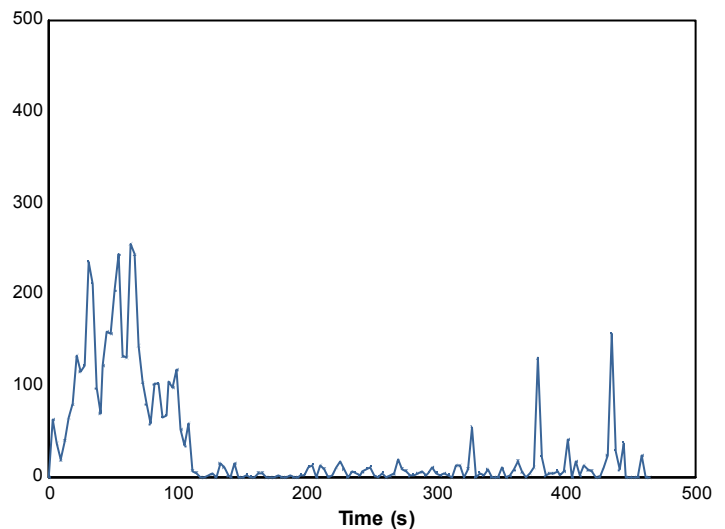
**Effective heat of combustion (MJ/kg)**



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



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



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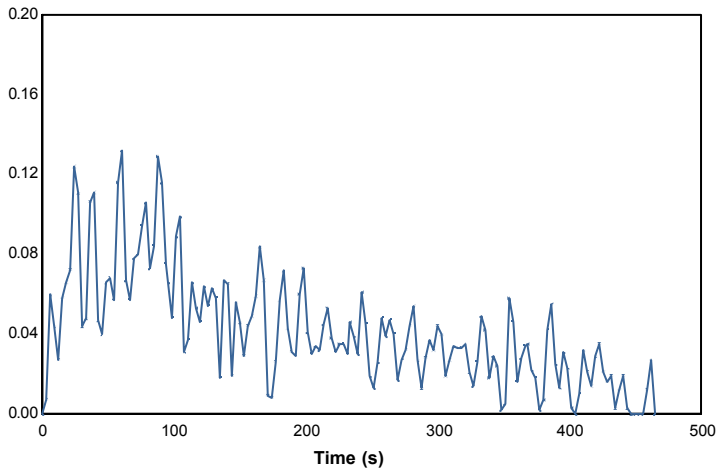
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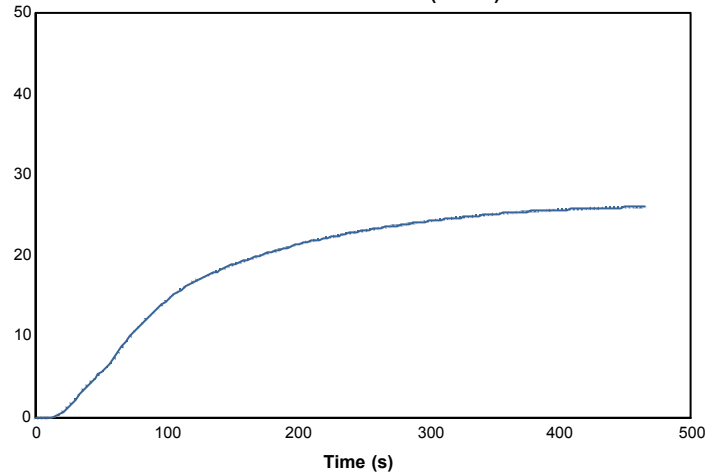
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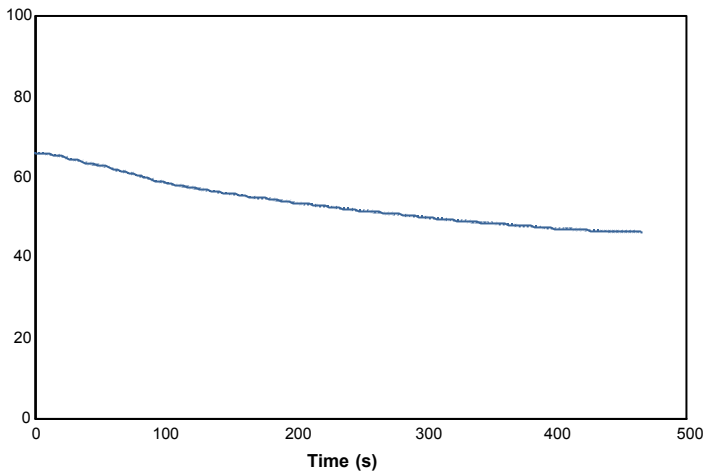
Mass loss rate (g/s)



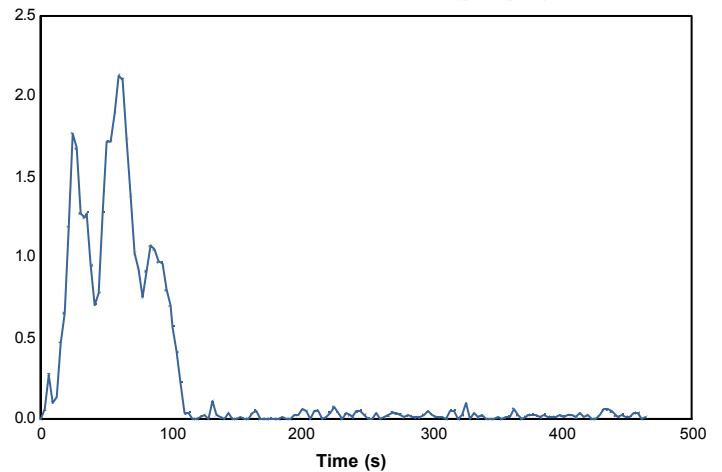
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release (l/m²/s/m²)



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## 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 :** Woven Image Pty Ltd  
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### Sponsor Product

Clients Ref : "Lux Wall P"

Non woven material

Colour : Brown

End Use : Wallcovering

Nominal Composition : 50% Flax 50% Polypropylene

Product Group Number Classification : 3

Average Specific Extinction Area : 41.0 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

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