

# 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 :** 19-006738  
**Issue Date :** 18/12/2019  
**Print Date :** 18/12/2019

**Sample Description** Clients Ref : "Edge 111"  
Woven fabric  
Colour : Taupe  
End Use : Upholstery, Wrapped Panels  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : Approx: 440g/m2  
Nominal Thickness : Approx: 1mm

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

Date Tested 18/12/2019  
Operator AWTA Test Operator 2  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	56.8	44.2	44.0	48.3	kW/m <sup>2</sup>
Average Specific extinction area	96.3	119.7	100.6	105.5	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	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	83	80	73	79	sec
Test duration	504	535	567	535	sec
Peak heat release after ignition	170.4	162.1	154.7	162.4	kW/m <sup>2</sup>
Average heat at 60 s	125.5	110.0	112.7	116.1	kW/m <sup>2</sup>

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- Mechanical Testing  
- Performance & Approvals Testing

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: Accreditation No. 985  
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APPROVED SIGNATORY

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

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Average heat at 180 s	86.5	71.5	79.2	79.1	kW/m <sup>2</sup>
Average heat at 300 s	69.4	58.9	63.6	64.0	kW/m <sup>2</sup>
Total heat released	23.9	20.1	21.7	21.9	MJ/m <sup>2</sup>
Average effective heat of combustion	12.3	9.9	9.9	10.7	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	90.4	89.7	90.9	90.3	g
Mass at sustained flaming	89.1	88.2	89.8	89.0	g
Mass remaining	74.5	73.1	73.1	73.5	g
Mass percentage pyrolysed	17.6	18.5	19.6	18.6	%
Mass loss	2.0	2.1	2.2	2.1	kg/m <sup>2</sup>
Average rate of mass loss	4.6	4.5	4.4	4.5	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 6mm thick cement sheet using Roberts 656 wallcovering adhesive prior to testing

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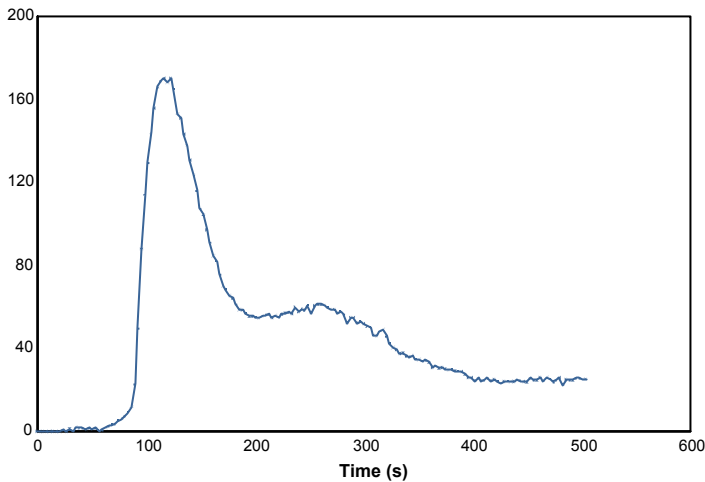
## TEST REPORT

**Client :** Woven Image Pty Ltd  
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Brookvale NSW 2100

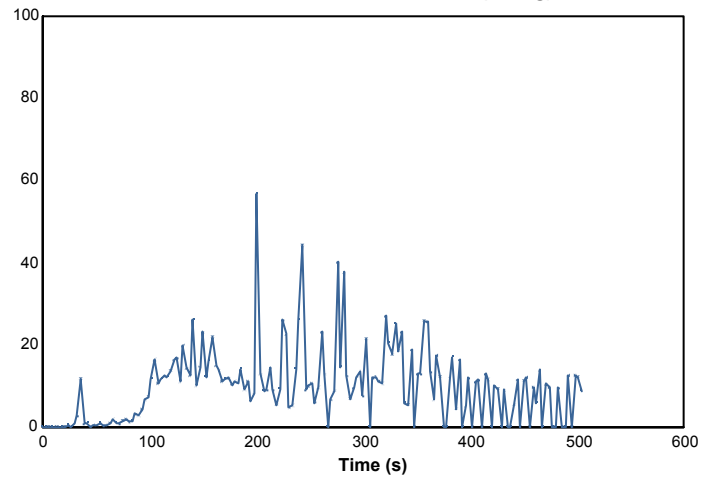
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**Issue Date :** 18/12/2019  
**Print Date :** 18/12/2019

**Specimen :** 1

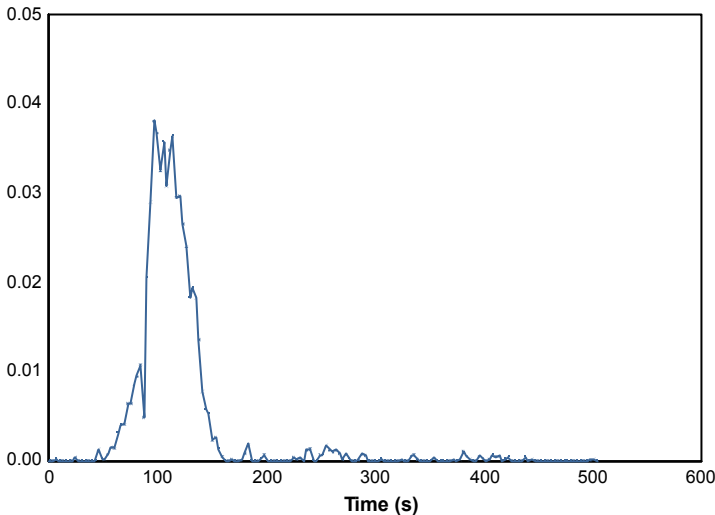
**Heat release rate (kW/m<sup>2</sup>)**



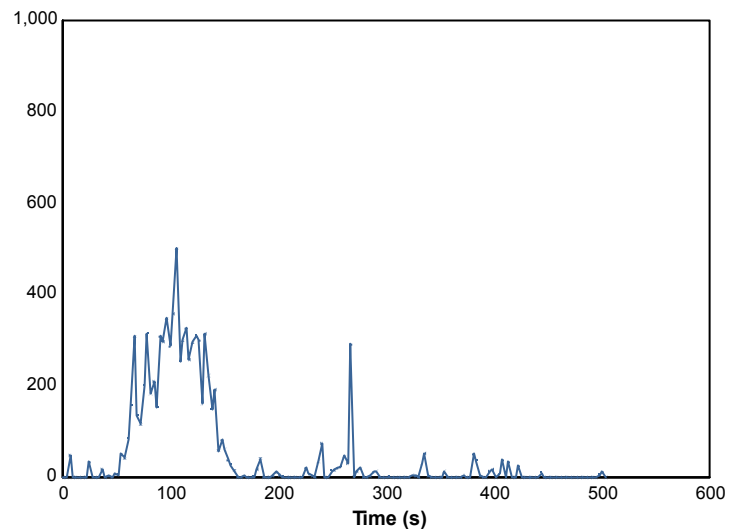
**Effective heat of combustion (MJ/kg)**



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



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



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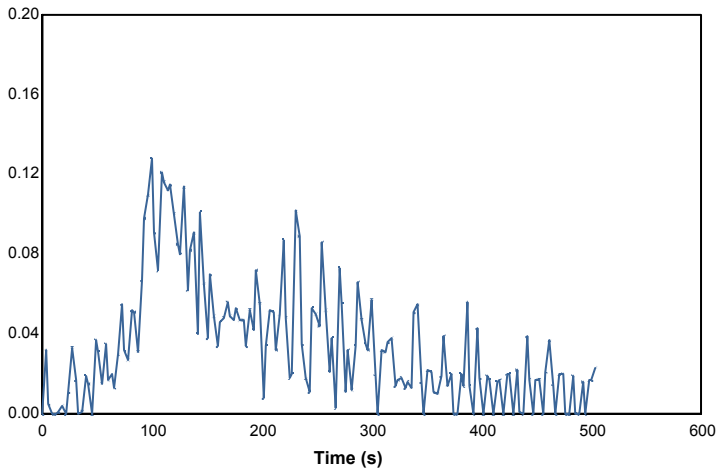
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

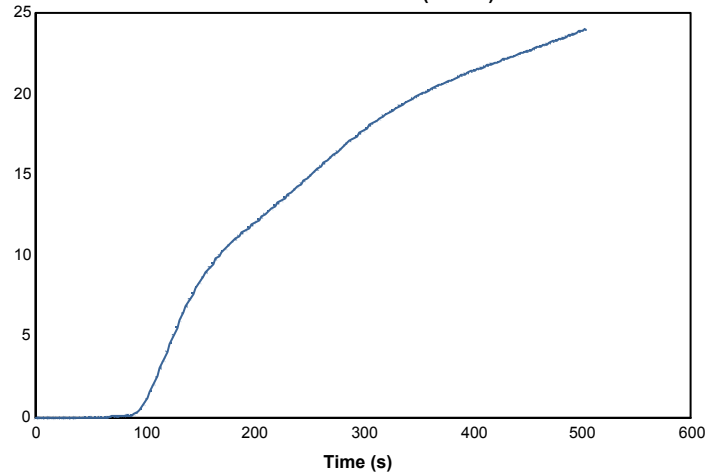
**Client :** Woven Image Pty Ltd  
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**Test Number :** 19-006738  
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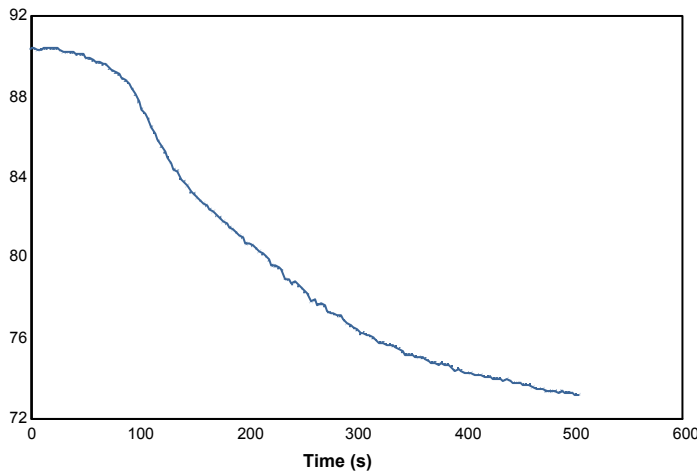
Mass loss rate (g/s)



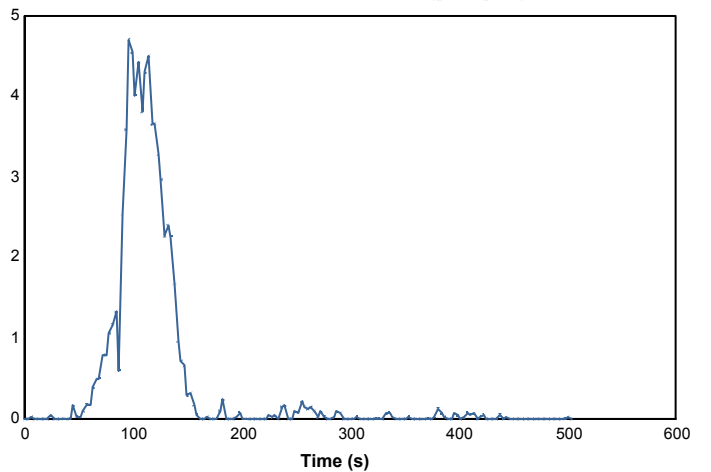
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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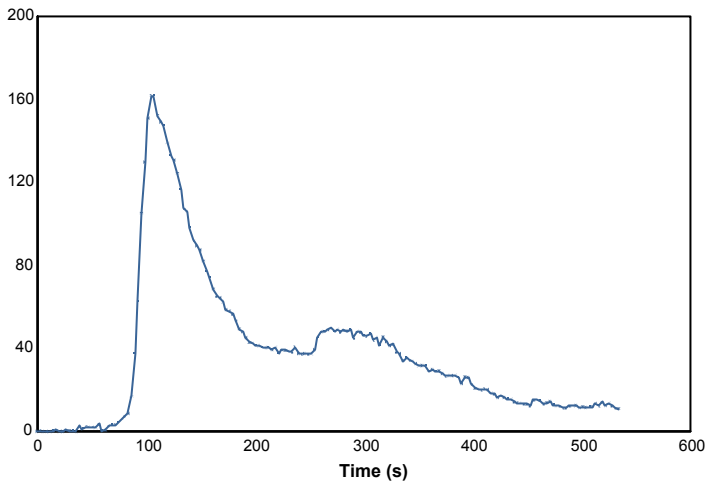
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**Client :** Woven Image Pty Ltd  
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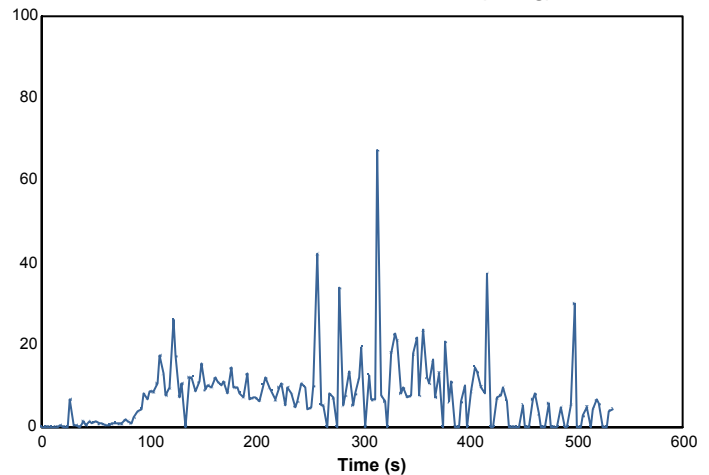
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**Issue Date :** 18/12/2019  
**Print Date :** 18/12/2019

**Specimen :** 2

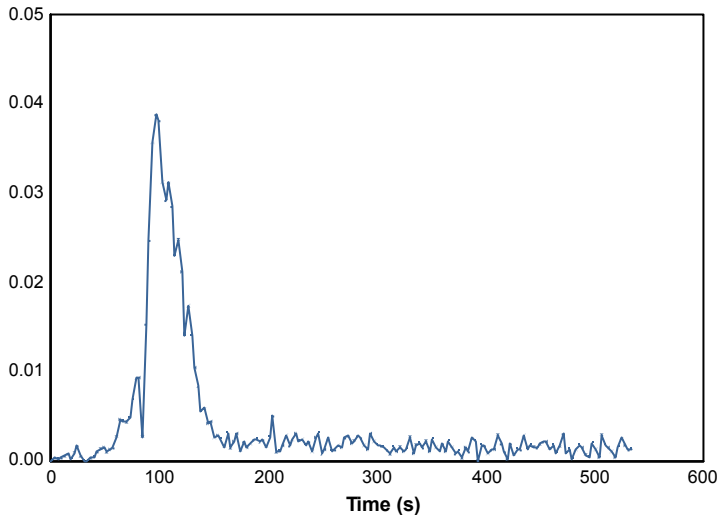
**Heat release rate (kW/m<sup>2</sup>)**



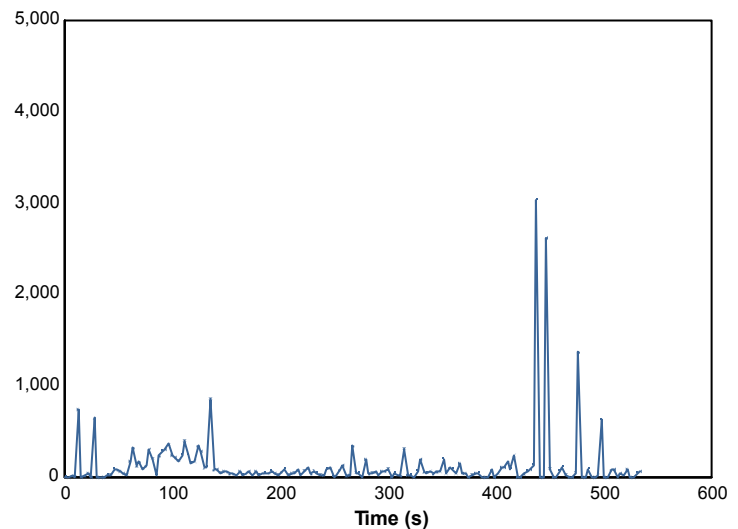
**Effective heat of combustion (MJ/kg)**



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



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



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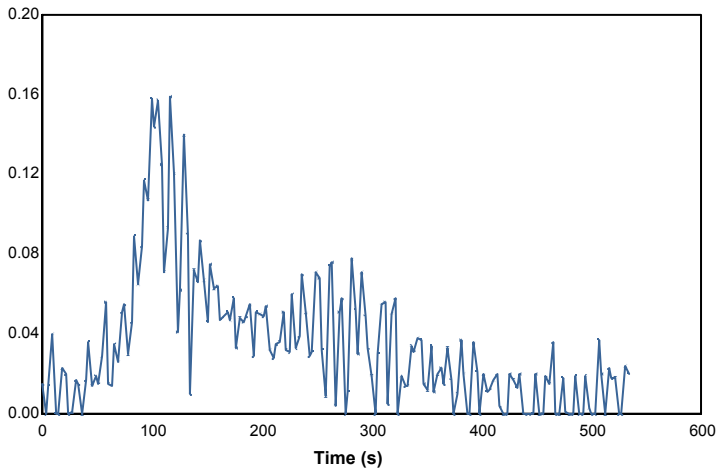
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## TEST REPORT

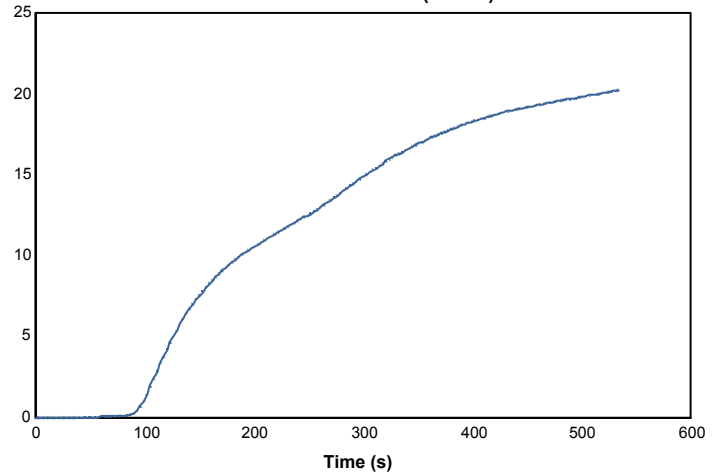
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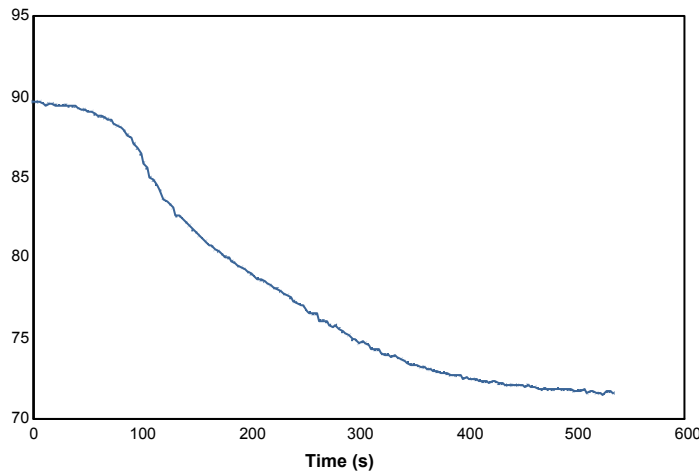
Mass loss rate (g/s)



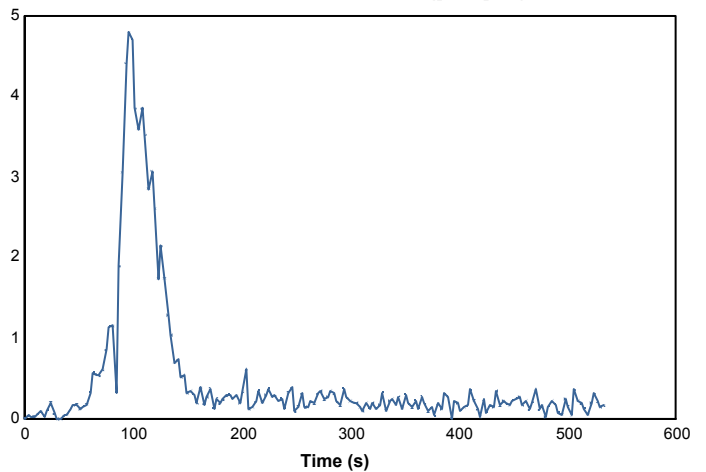
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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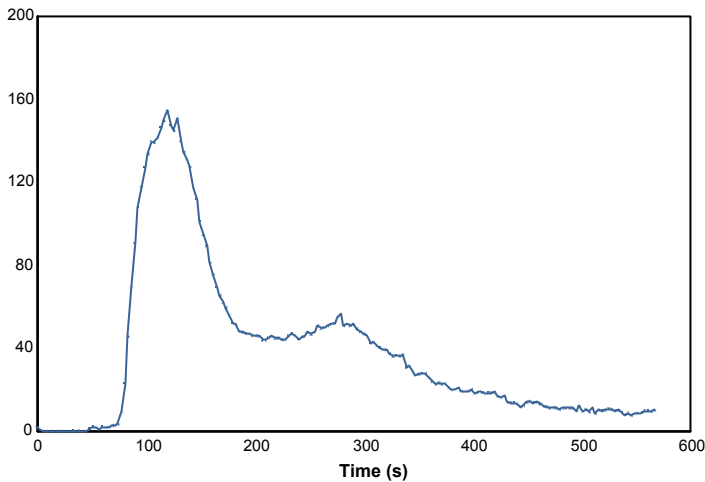
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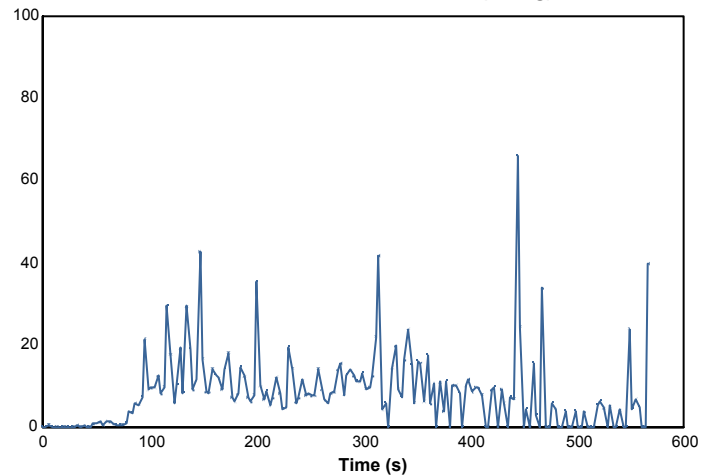
**Test Number :** 19-006738  
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**Print Date :** 18/12/2019

**Specimen :** 3

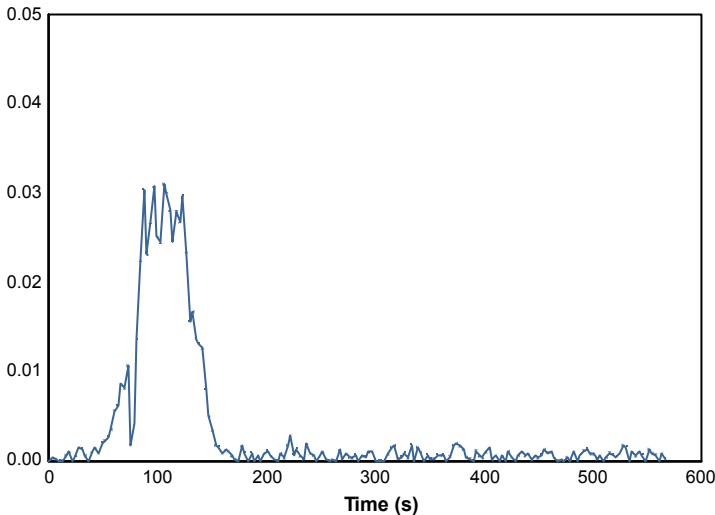
Heat release rate (kW/m<sup>2</sup>)



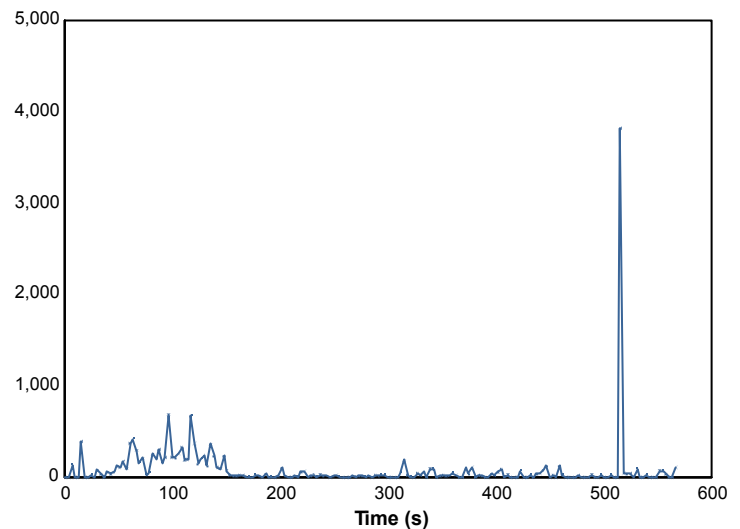
Effective heat of combustion (MJ/kg)



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



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



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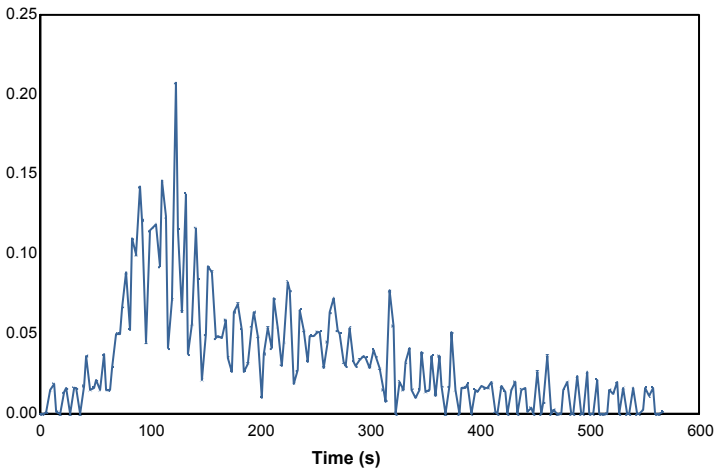
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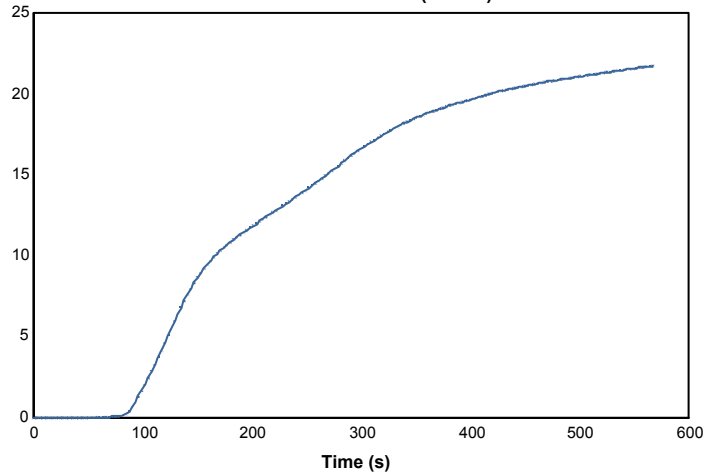
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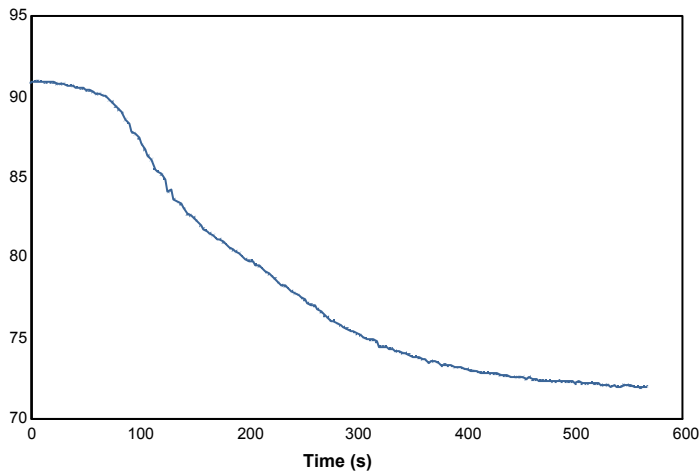
Mass loss rate (g/s)



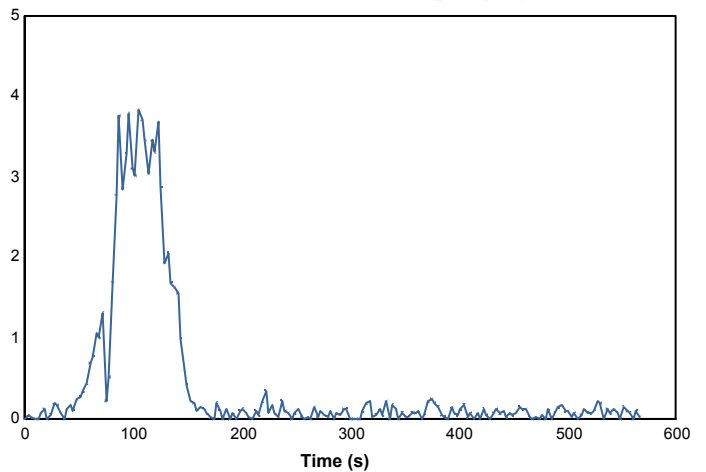
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([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  
37-39 Chard Road  
Brookvale NSW 2100

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**Issue Date :** 18/12/2019  
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**Sponsor Product** Clients Ref : "Edge 111"  
Woven fabric  
Colour : Taupe  
End Use : Upholstery, Wrapped Panels  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : Approx: 440g/m2  
Nominal Thickness : Approx: 1mm

Product Group Number Classification : 1  
Average Specific Extinction Area : 105.5 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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