

# 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 :** 16-006332  
**Issue Date :** 21/12/2016  
**Print Date :** 22/12/2016

**Sample Description** Clients Ref : "Focus"  
Woven fabric with knitted scrim  
Colour : Purple  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 380g/m2

### AS/NZS 3837-1998

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	39.3	39.0	37.1	38.5	kW/m <sup>2</sup>
Average Specific extinction area	84.4	71.7	81.1	79.1	m <sup>2</sup> /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	66	55	68	63	sec
Test duration	311	320	340	324	sec
Peak heat release after ignition	129.6	98.8	123.8	117.4	kW/m <sup>2</sup>
Average heat at 60 s	85.0	71.8	90.6	82.5	kW/m <sup>2</sup>
Average heat at 180 s	47.9	50.2	48.7	48.9	kW/m <sup>2</sup>
Average heat at 300 s	39.6	39.3	37.4	38.8	kW/m <sup>2</sup>
Total heat released	9.6	10.3	10.1	10.0	MJ/m <sup>2</sup>
Average effective heat of combustion	6.4	6.6	6.4	6.4	MJ/kg

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Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	86.6	88.1	89.3	88.0	g
Mass remaining	72.6	74.7	75.2	74.2	g
Mass percentage pyrolysed	16.2	15.3	15.8	15.7	%
Mass loss	14.0	13.4	14.1	13.8	g
Average rate of mass loss	6.2	5.9	5.8	6.0	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 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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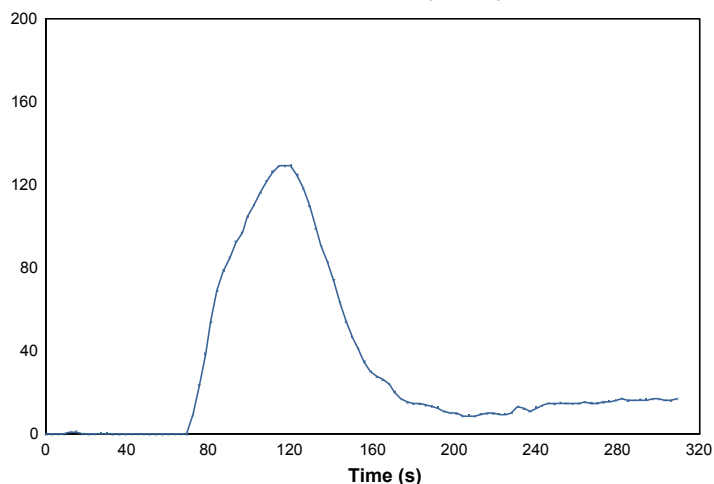
## TEST REPORT

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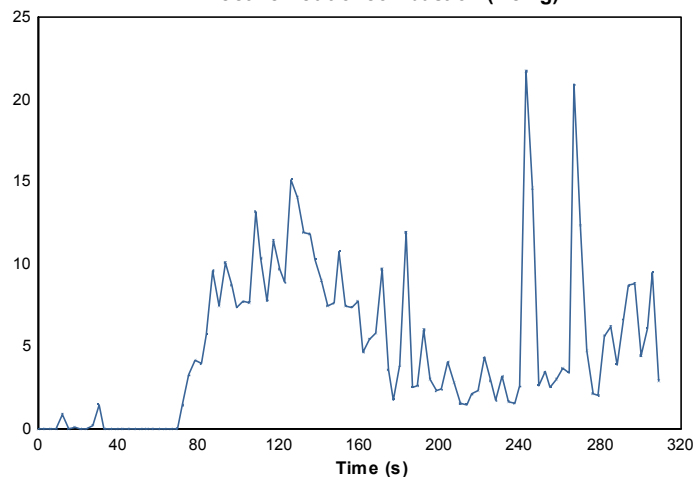
**Test Number :** 16-006332  
**Issue Date :** 21/12/2016  
**Print Date :** 22/12/2016

**Specimen :** 1

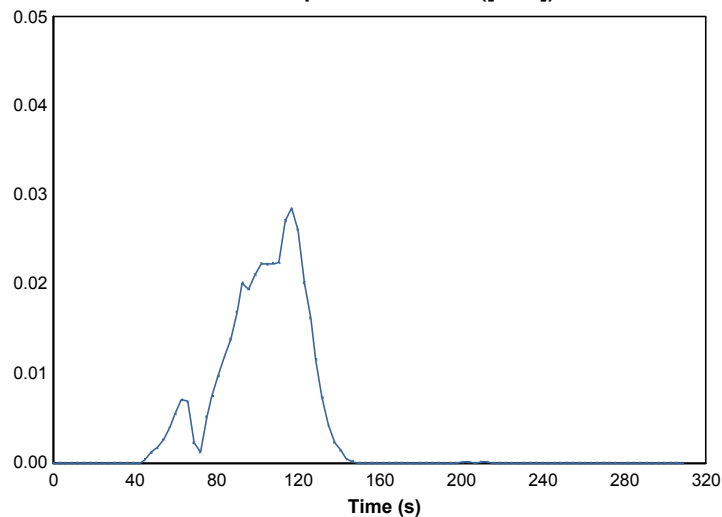
**Heat release rate (kW/m<sup>2</sup>)**



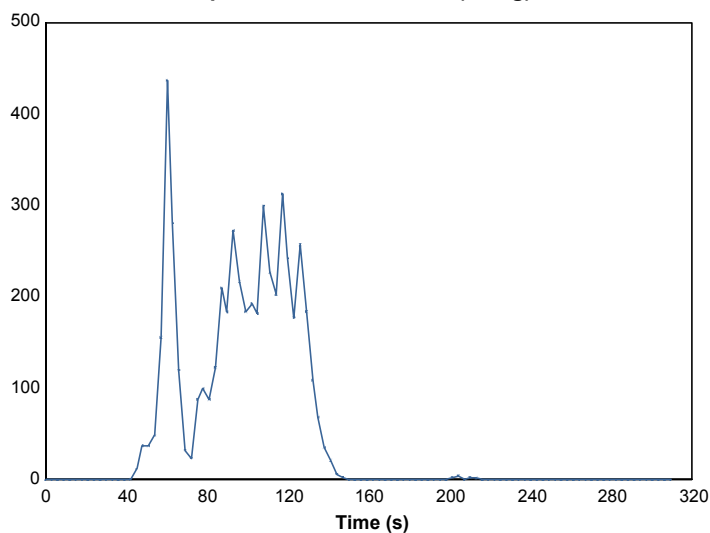
**Effective heat of combustion (MJ/kg)**



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



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



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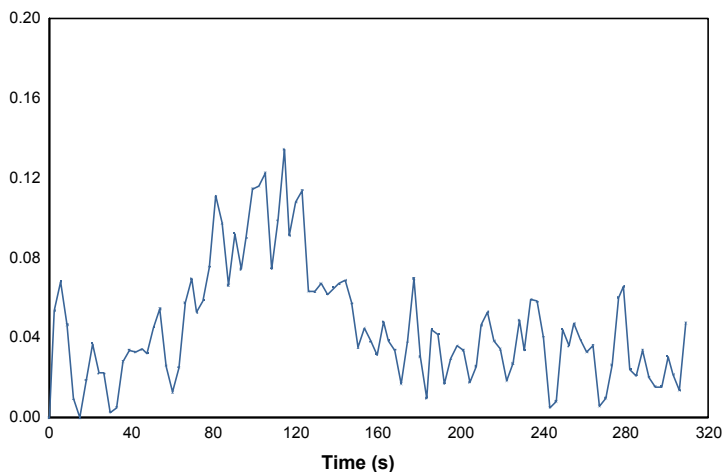
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

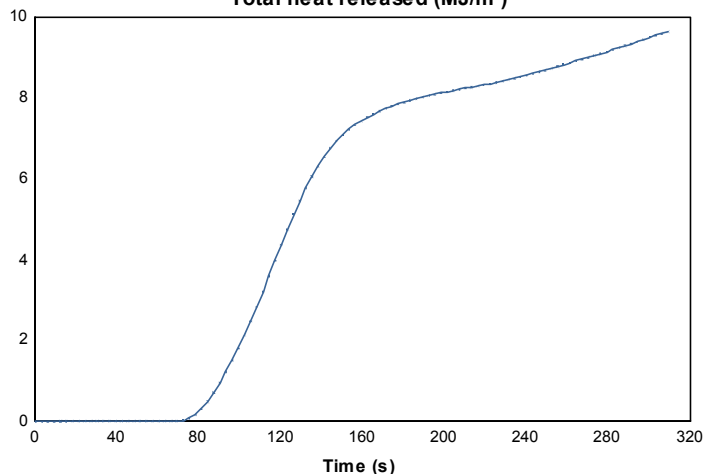
**Client :** Woven Image Pty Ltd  
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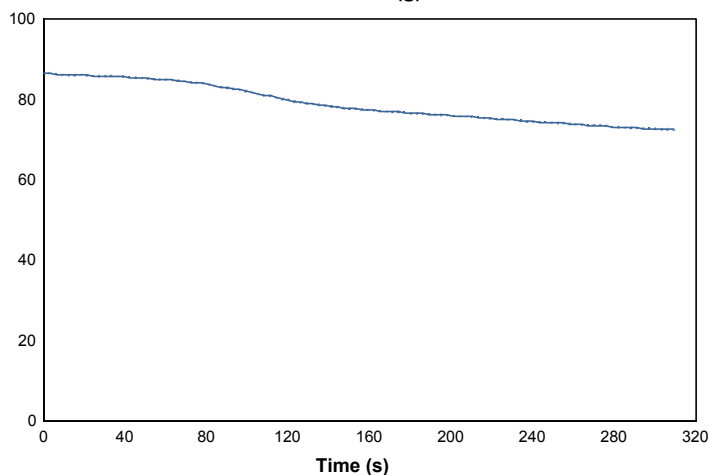
Mass loss rate (g/s)



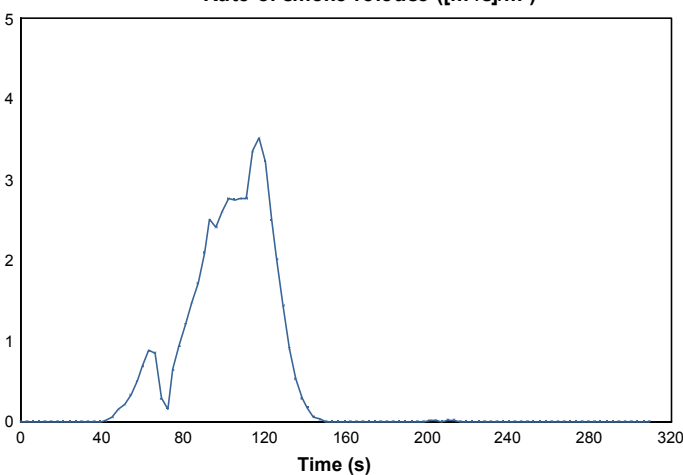
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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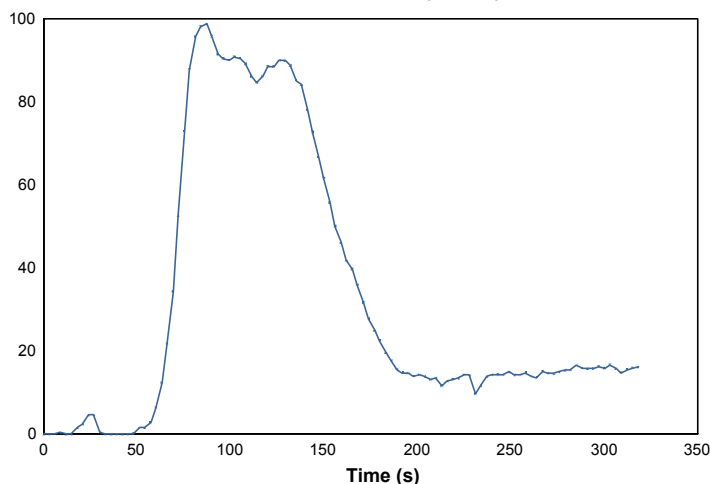
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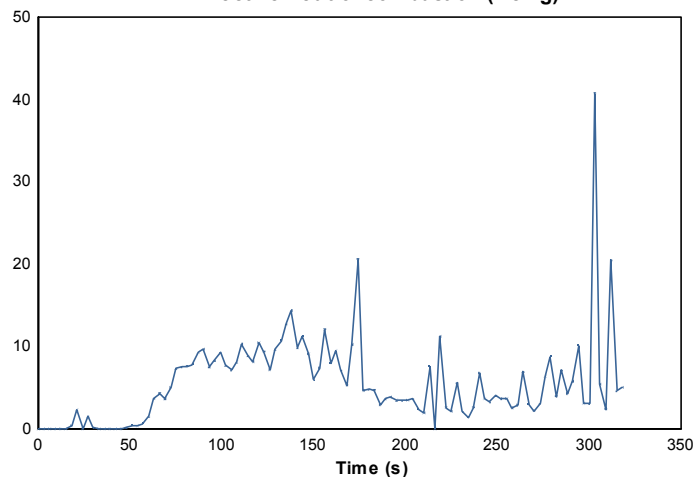
**Test Number :** 16-006332  
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**Specimen :** 2

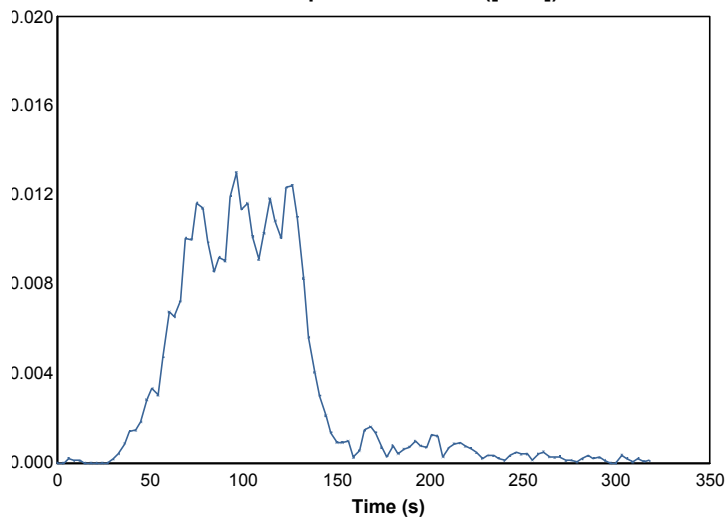
**Heat release rate (kW/m<sup>2</sup>)**



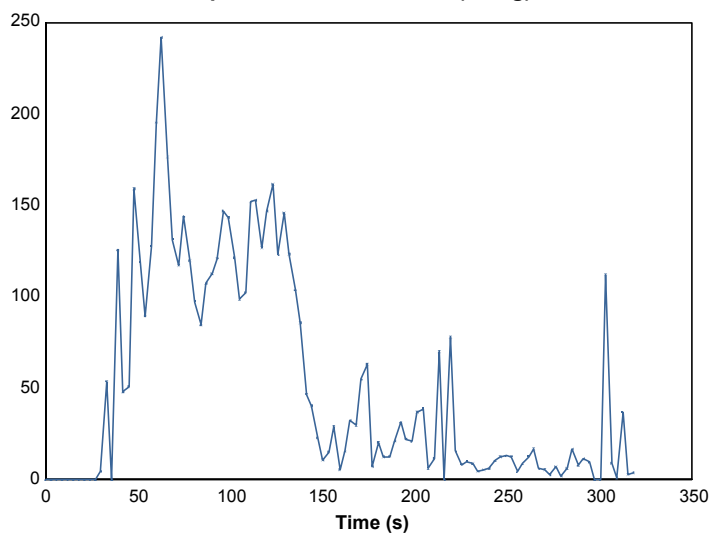
**Effective heat of combustion (MJ/kg)**



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



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



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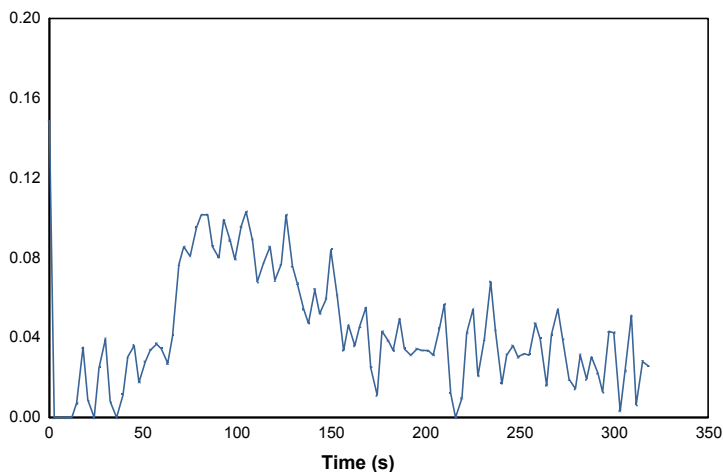
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

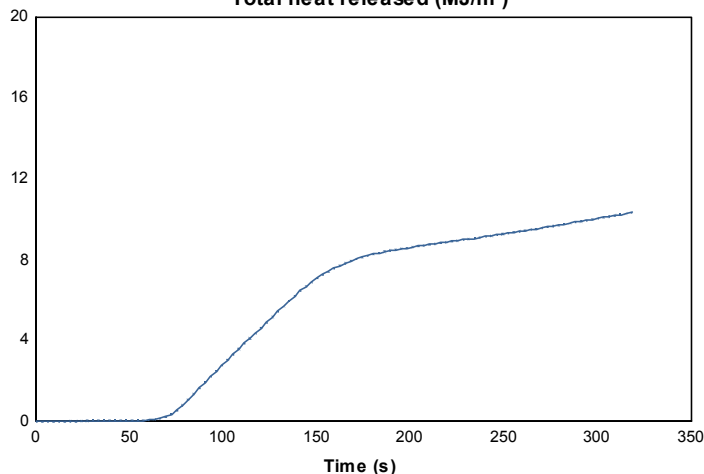
**Client :** Woven Image Pty Ltd  
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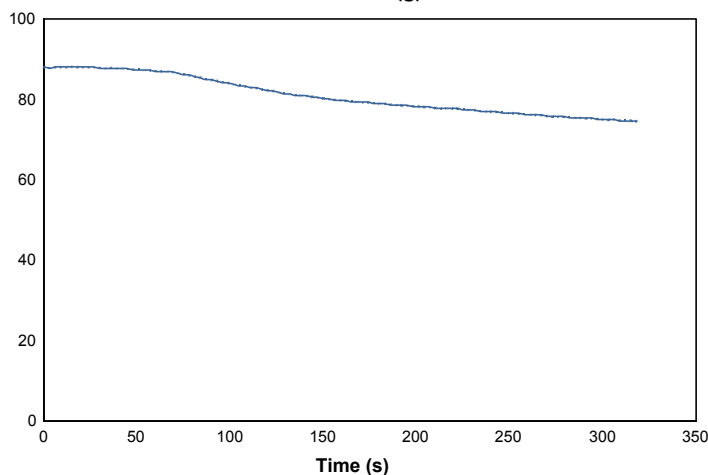
Mass loss rate (g/s)



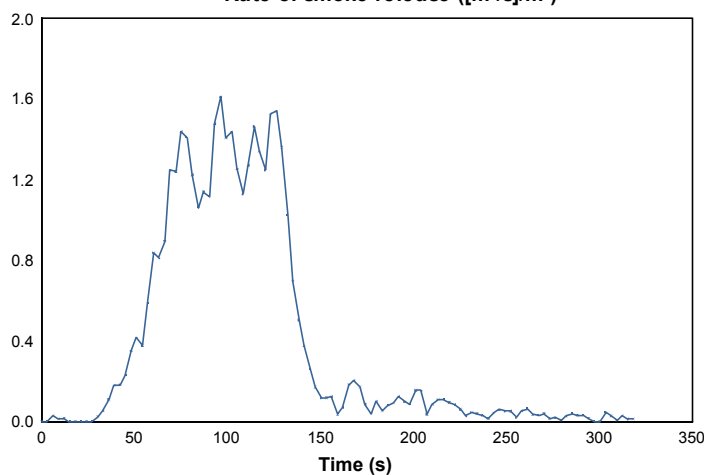
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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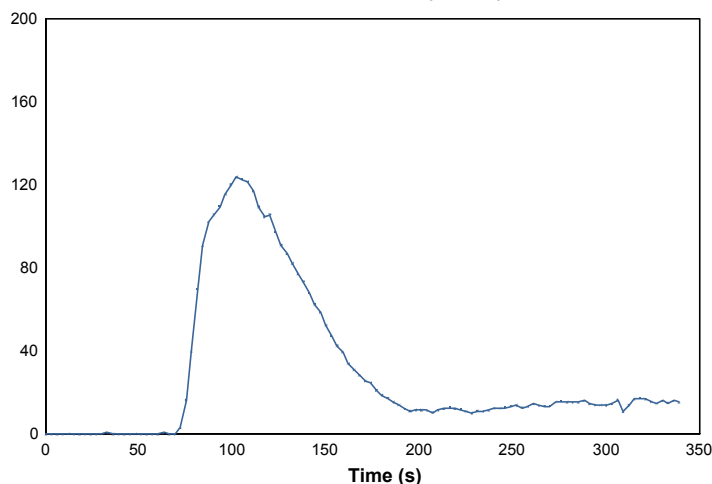
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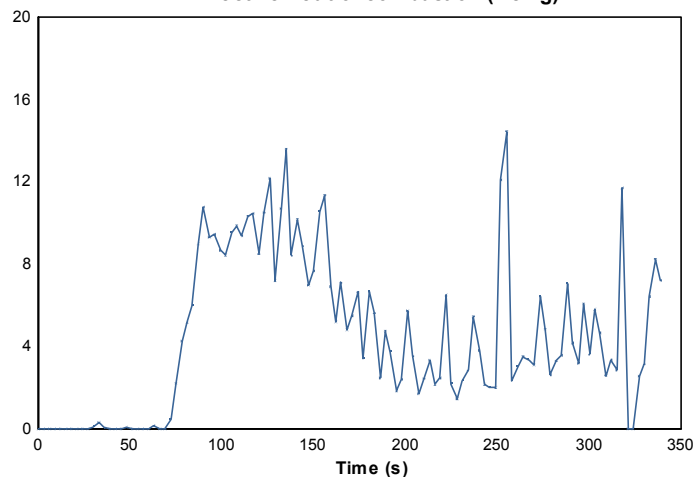
**Test Number :** 16-006332  
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**Specimen :** 3

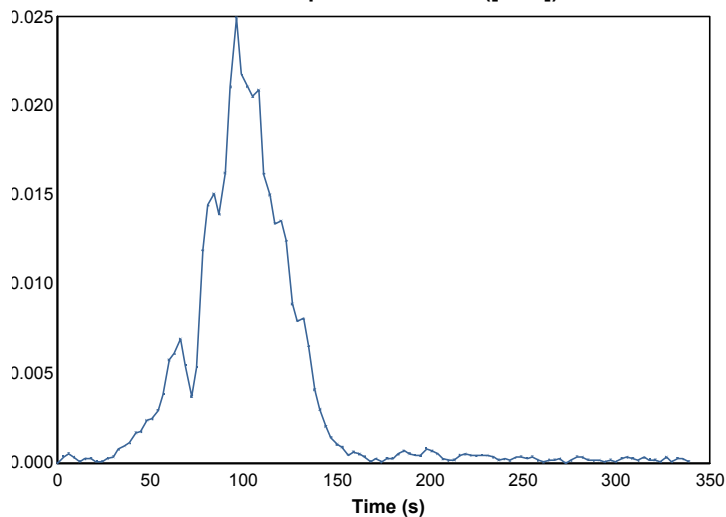
**Heat release rate (kW/m<sup>2</sup>)**



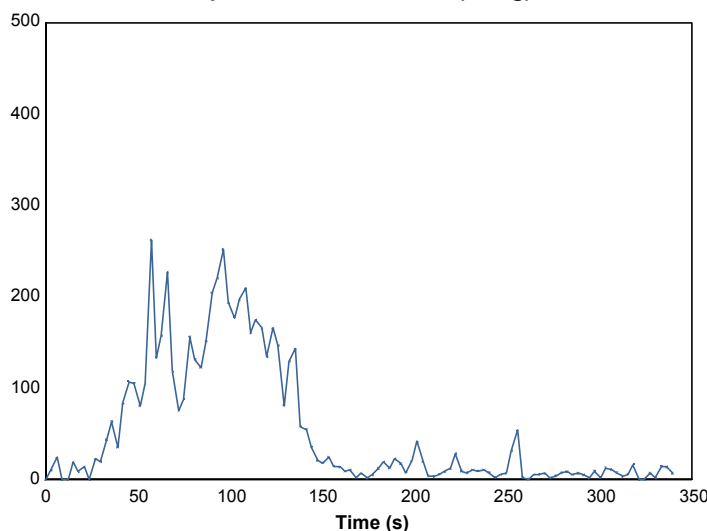
**Effective heat of combustion (MJ/kg)**



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



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



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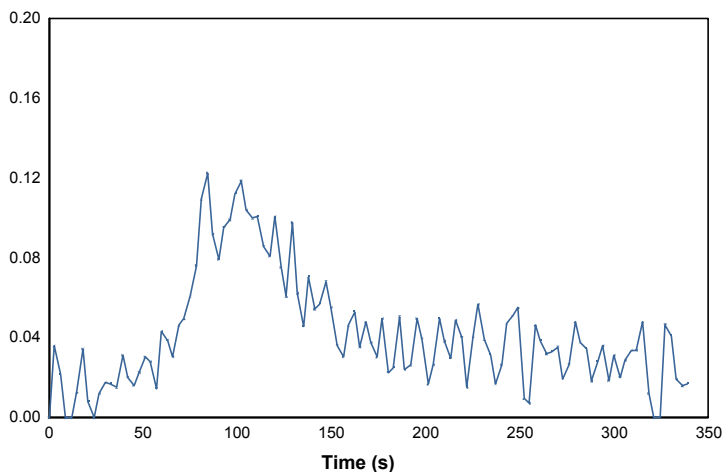
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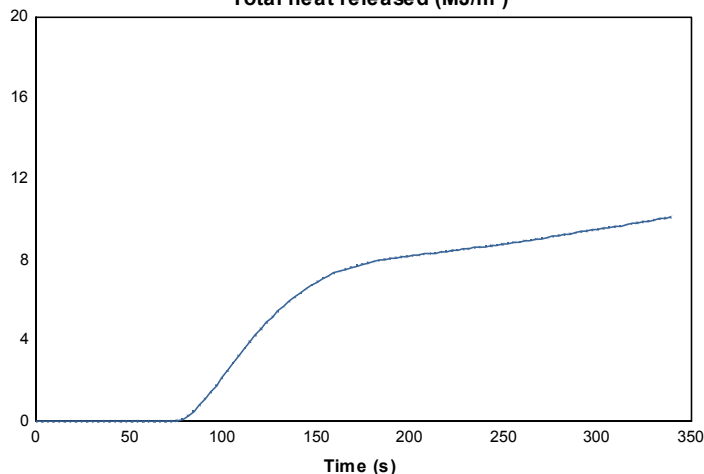
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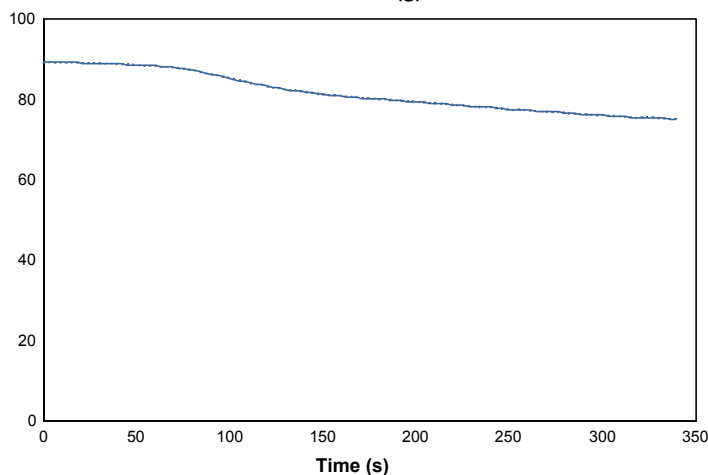
Mass loss rate (g/s)



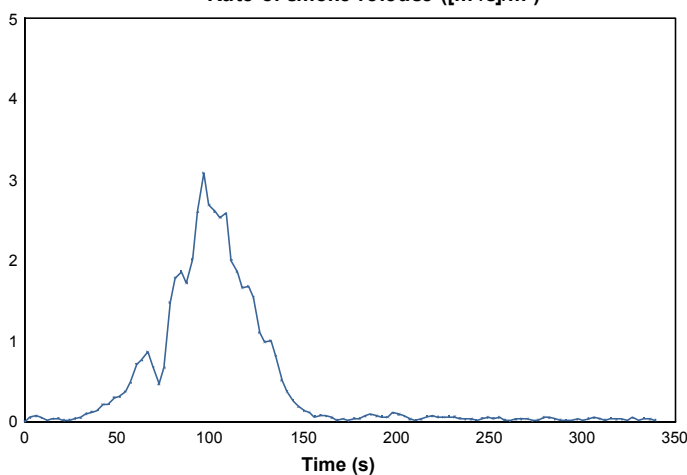
Total heat released (MJ/m²)



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  
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Brookvale NSW 2100

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**Sponsor Product** Clients Ref : "Focus"  
Woven fabric with knitted scrim  
Colour : Purple  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 380g/m2

Product Group Number Classification : 1  
Average Specific Extinction Area : 79.1 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

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