

# 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

## TEST REPORT

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

**Test Number :** 20-002520  
**Issue Date :** 29/05/2020  
**Print Date :** 29/05/2020

**Sample Description** Clients Ref : "Knoll Stripemania"  
Striped woven fabric with acrylic backcoating  
Colour : Various  
End Use : Upholstery and Vertical wall  
Nominal Composition : 80% Post-consumer Recycled Polyester, 20% Nylon, Acrylic Backing  
Nominal Mass per Unit Area/Density : Approx 230g/m2

### AS/NZS 3837-1998

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

Date Tested 29/05/2020  
Operator AWTA Test Operator 7  
Face Tested Various

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	31.3	33.1	33.3	32.6	kW/m <sup>2</sup>
Average Specific extinction area	68.4	72.0	73.2	71.2	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	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	40	38	44	41	sec
Test duration	350	327	350	342	sec
Peak heat release after ignition	211.0	224.6	212.1	215.9	kW/m <sup>2</sup>
Average heat at 60 s	106.3	108.1	111.4	108.6	kW/m <sup>2</sup>

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- Mechanical Testing  
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: Accreditation No. 983  
: Accreditation No. 985  
: Accreditation No. 1356

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Average heat at 180 s	49.7	49.0	51.5	50.1	kW/m <sup>2</sup>
Average heat at 300 s	32.3	n/a	33.9	22.1	kW/m <sup>2</sup>
Total heat released	9.7	9.5	10.2	9.8	MJ/m <sup>2</sup>
Average effective heat of combustion	6.3	6.2	6.4	6.3	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	58.8	58.2	58.0	58.3	g
Mass remaining	46.2	45.7	45.2	45.7	g
Mass percentage pyrolysed	21.4	21.5	22.0	21.6	%
Mass loss	1.6	1.5	1.6	1.6	kg/m <sup>2</sup>
Average rate of mass loss	5.0	5.3	5.2	5.2	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.

Samples were loose laid onto a substrate of 10mm thick plasterboard 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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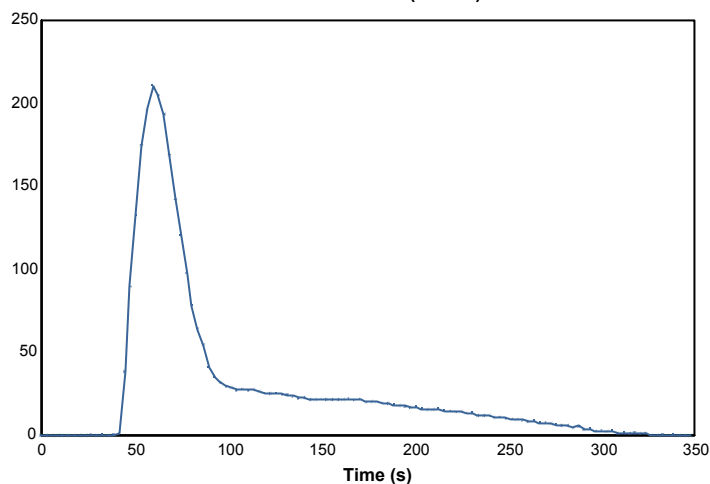
## TEST REPORT

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

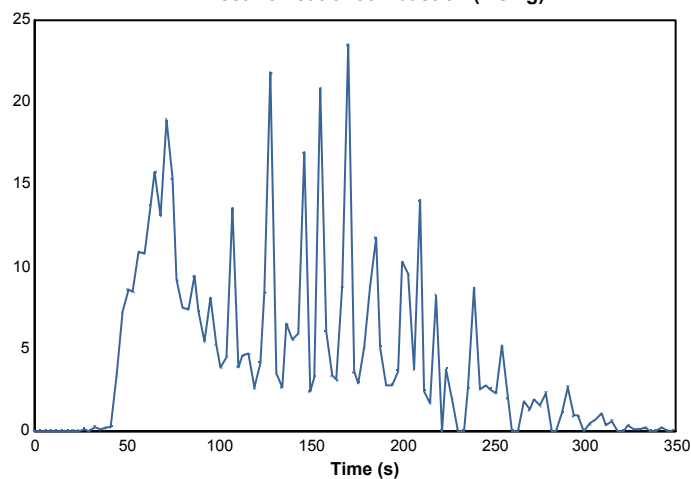
**Test Number :** 20-002520  
**Issue Date :** 29/05/2020  
**Print Date :** 29/05/2020

**Specimen :** 1

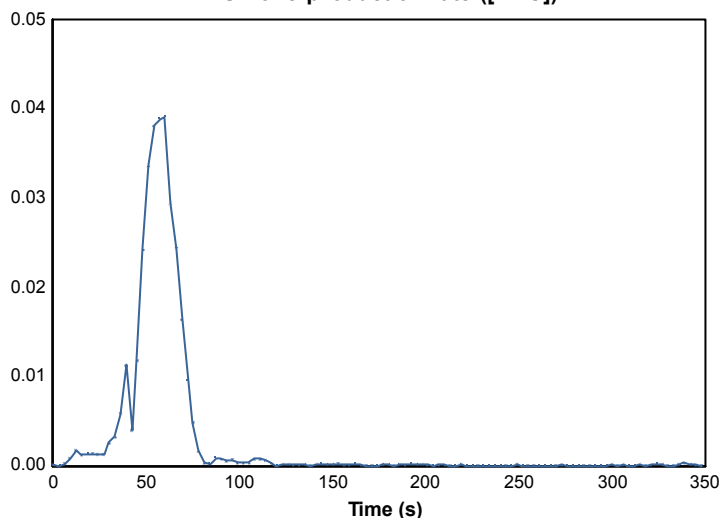
**Heat release rate (kW/m<sup>2</sup>)**



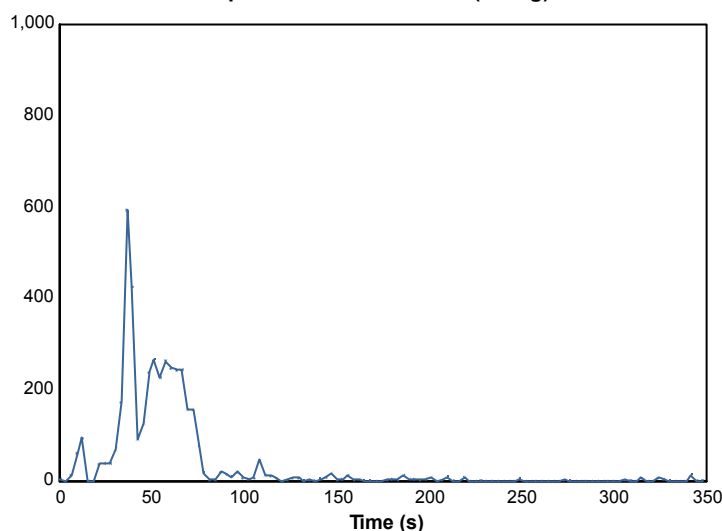
**Effective heat of combustion (MJ/kg)**



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



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



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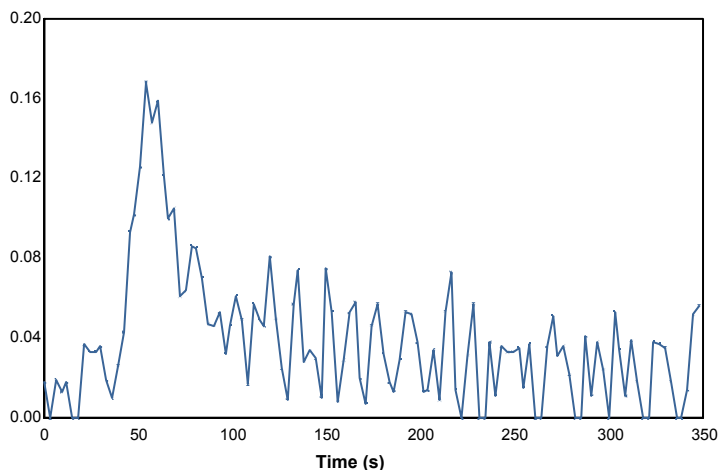
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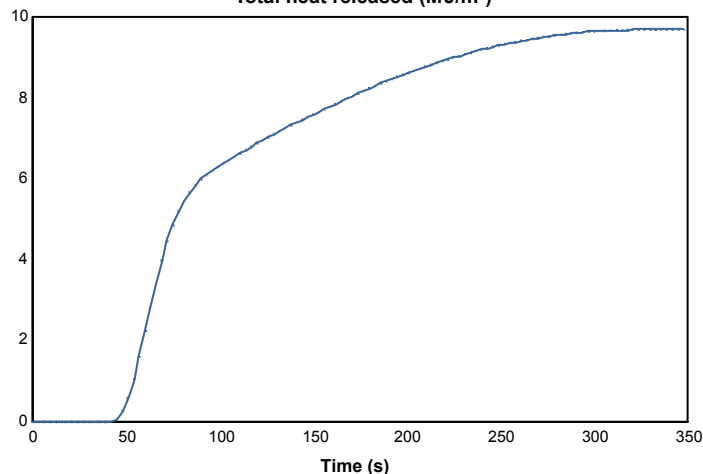
**Client :** Woven Image Pty Ltd  
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**Print Date :** 29/05/2020

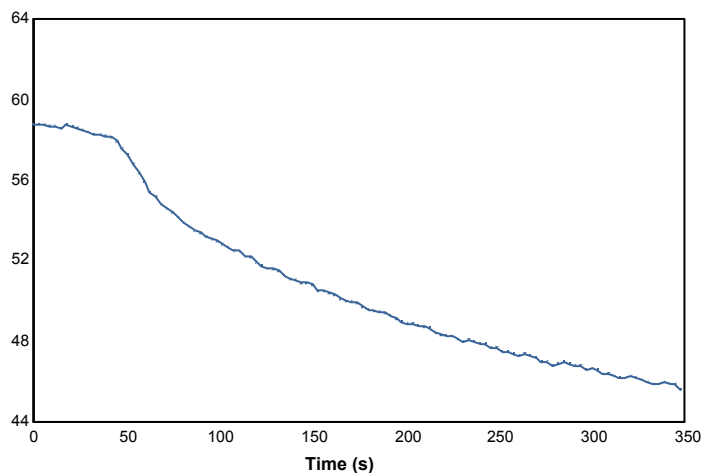
Mass loss rate (g/s)



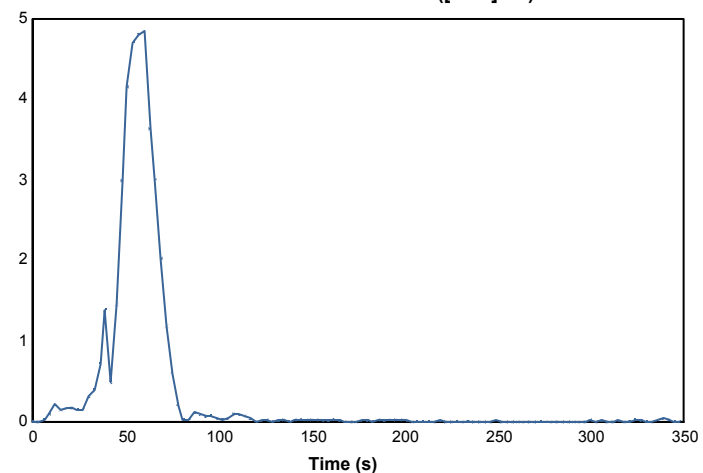
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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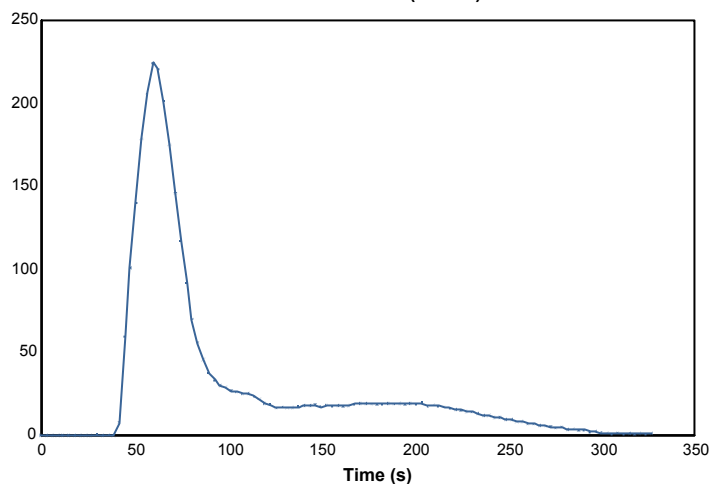
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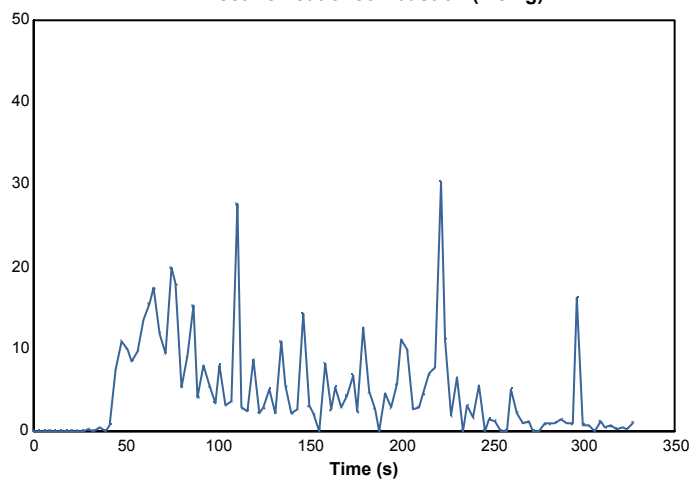
**Test Number :** 20-002520  
**Issue Date :** 29/05/2020  
**Print Date :** 29/05/2020

**Specimen :** 2

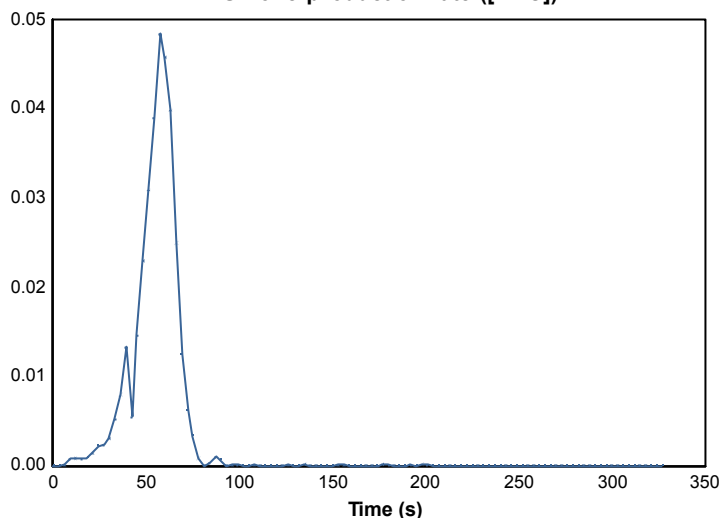
Heat release rate (kW/m<sup>2</sup>)



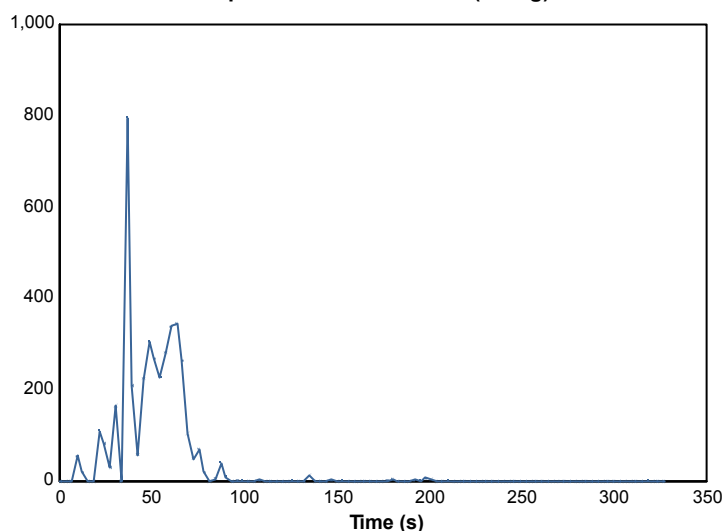
Effective heat of combustion (MJ/kg)



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



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



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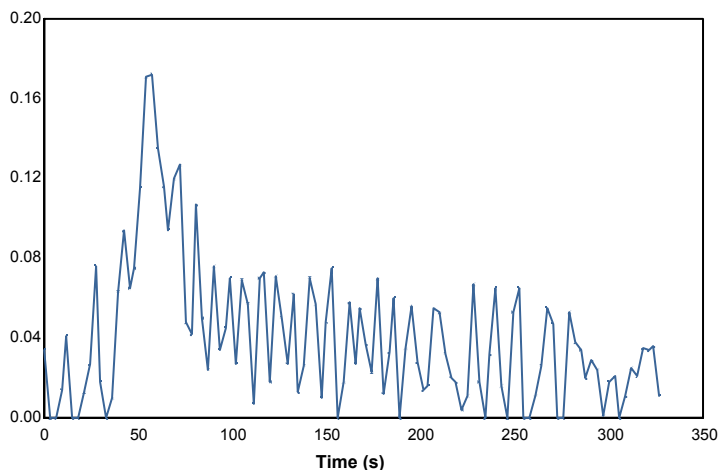
Phone (03) 9371 2400

## TEST REPORT

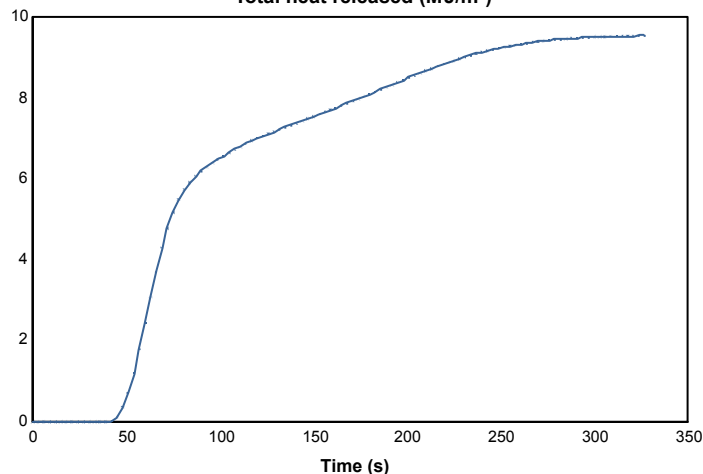
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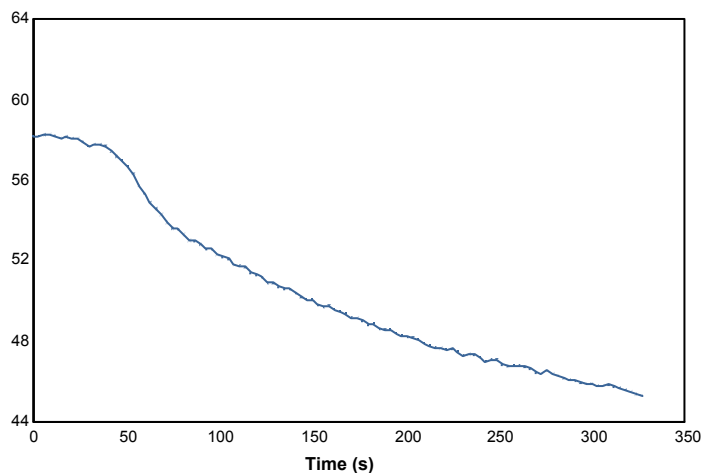
Mass loss rate (g/s)



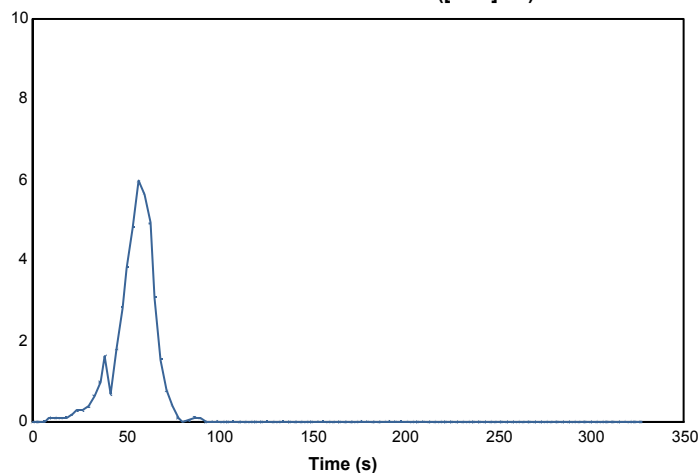
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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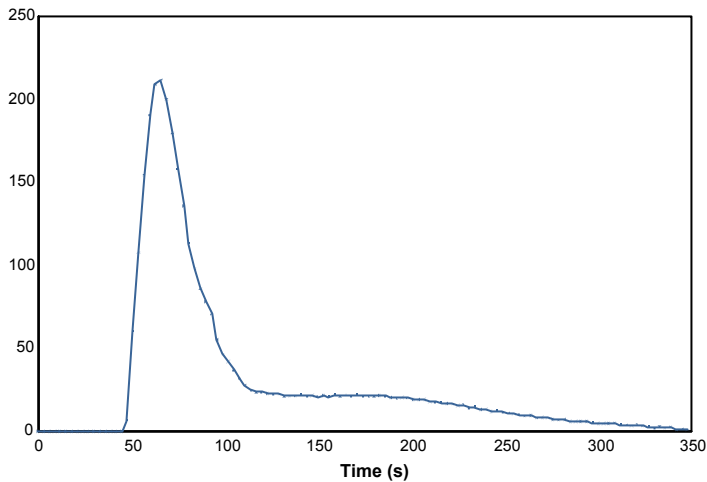
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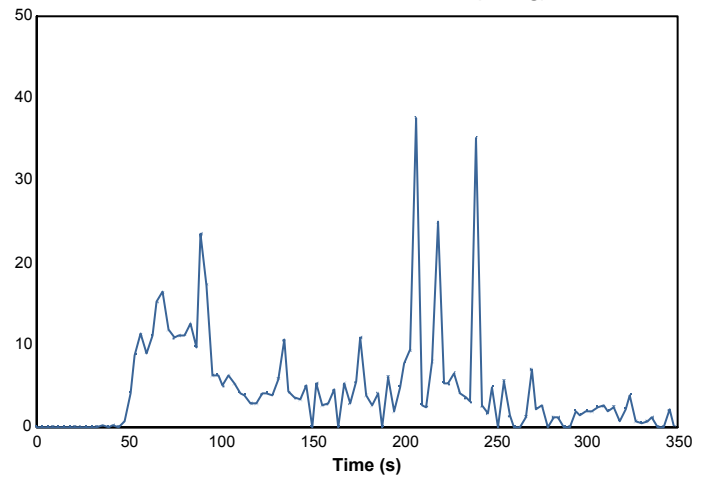
**Test Number :** 20-002520  
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**Specimen :** 3

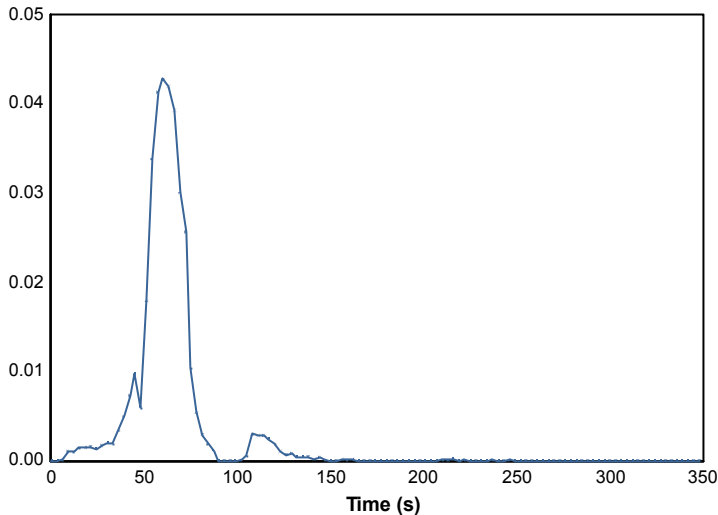
Heat release rate (kW/m<sup>2</sup>)



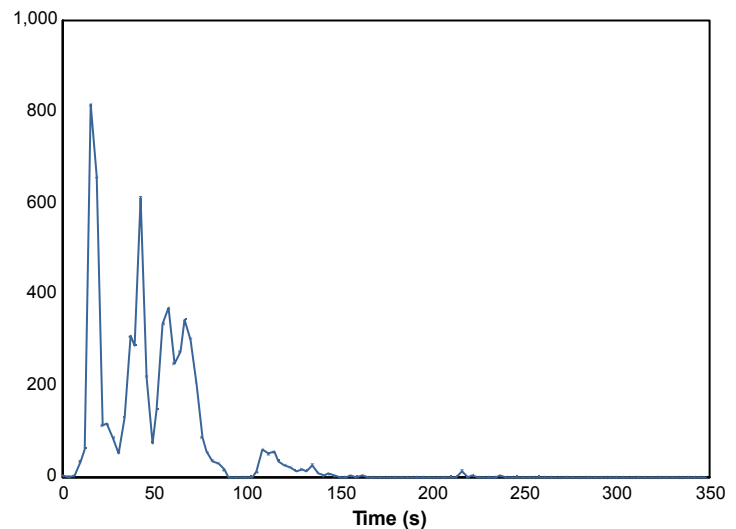
Effective heat of combustion (MJ/kg)



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



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



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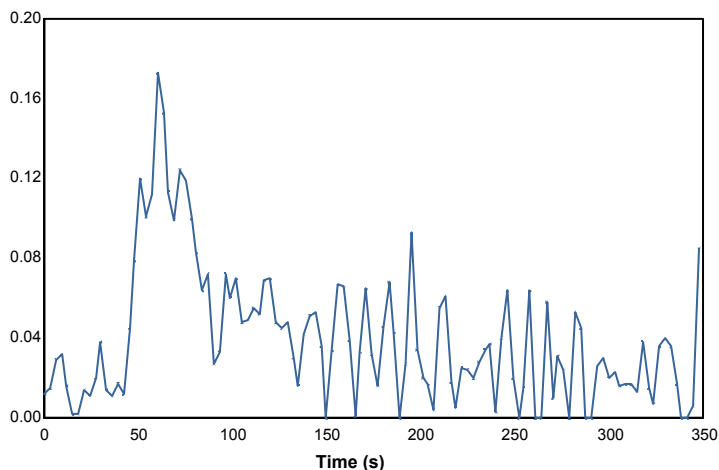
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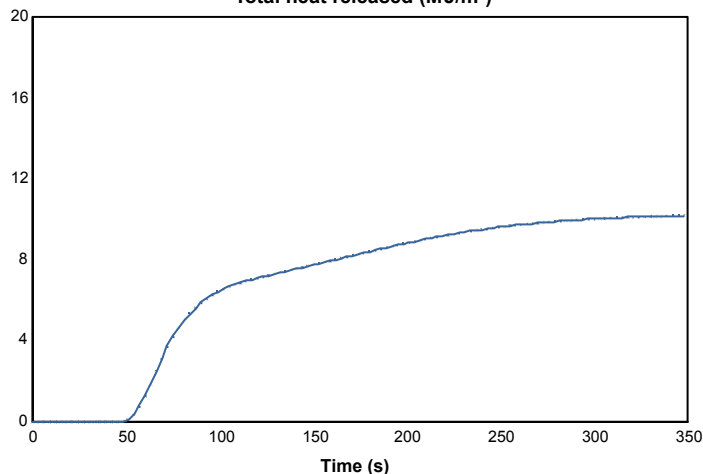
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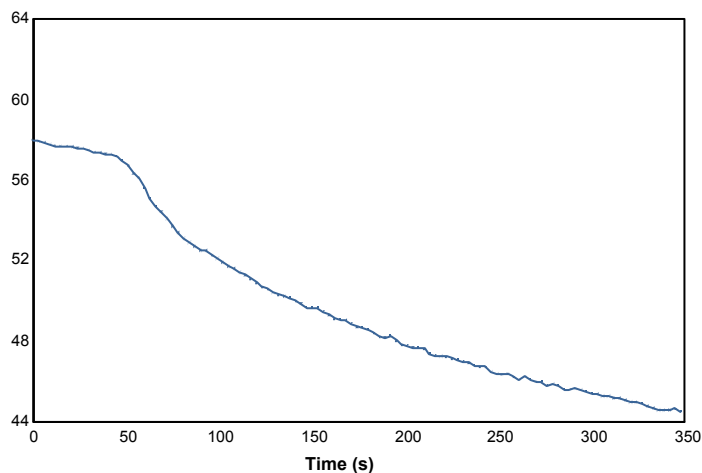
Mass loss rate (g/s)



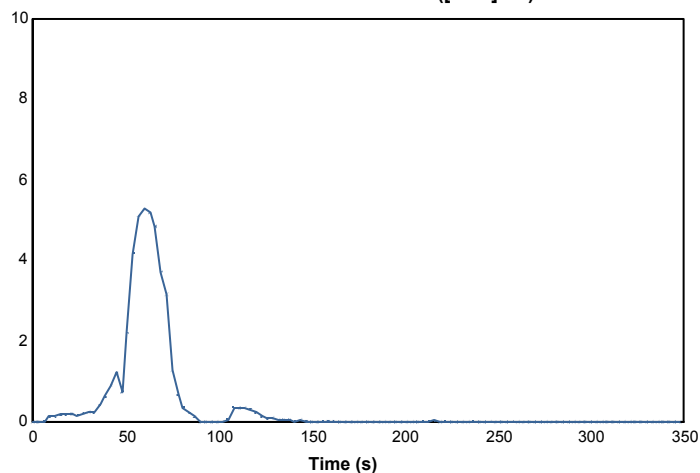
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([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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**Issue Date :** 29/05/2020  
**Print Date :** 29/05/2020

### Sponsor Product

Clients Ref : "Knoll Stripemania"

Striped woven fabric with acrylic backcoating

Colour : Various

End Use : Upholstery and Vertical wall

Nominal Composition : 80% Post-consumer Recycled Polyester, 20% Nylon, Acrylic Backing

Nominal Mass per Unit Area/Density : Approx 230g/m2

Product Group Number Classification :

1

Average Specific Extinction Area :

71.2 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

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