

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 : 19-006865
Issue Date : 17/12/2019
Print Date : 18/12/2019

Sample Description Clients Ref : "Wave Dune"
Non-woven acoustic wallcovering
Colour : Off White
End Use : Wallcovering
Nominal Composition : 100% Polyester (45% Recycled)
Nominal Mass per Unit Area/Density : Approx 1378g/m2
Nominal Thickness : Approx 3mm

AS/NZS 3837-1998

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

Date Tested 17/12/2019
Operator AWTA Test Operator 2
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	70.0	65.7	73.2	69.6	kW/m ²
Average Specific extinction area	265.1	189.3	218.6	224.3	m ² /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 ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	77	84	69	77	sec
Test duration	574	588	587	583	sec
Peak heat release after ignition	270.6	253.8	315.6	280.0	kW/m ²
Average heat at 60 s	165.4	153.6	160.7	159.9	kW/m ²

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- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
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MICHAEL A. JACKSON B.Sc.(Hons)
MANAGING DIRECTOR

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Average heat at 180 s	149.5	136.1	153.4	146.3	kW/m ²
Average heat at 300 s	105.9	98.1	110.1	104.7	kW/m ²
Total heat released	34.6	33.1	38.0	35.2	MJ/m ²
Average effective heat of combustion	11.2	11.5	12.2	11.6	MJ/kg
Initial thickness	10	10	10	10.0	mm
Initial mass	98.6	98.2	97.4	98.1	g
Mass at sustained flaming	97.8	97.4	97.1	97.4	g
Mass remaining	73.4	74.7	71.7	73.3	g
Mass percentage pyrolysed	25.6	23.9	26.4	25.3	%
Mass loss	3.1	2.9	3.2	3.1	kg/m ²
Average rate of mass loss	6.3	5.7	6.0	6.0	g/m ² .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 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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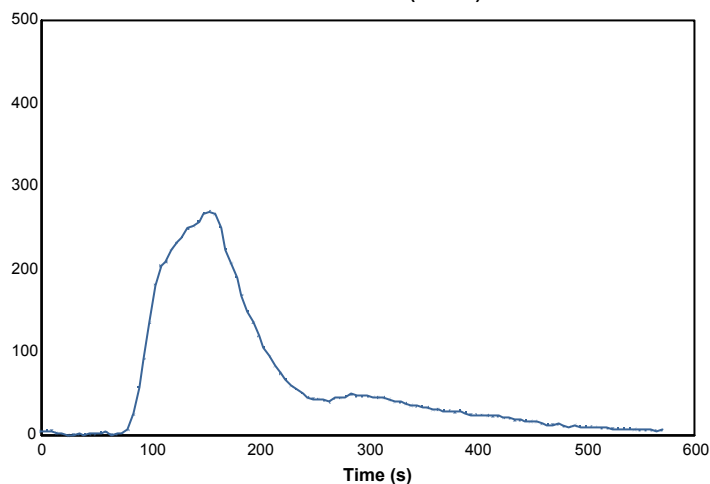
TEST REPORT

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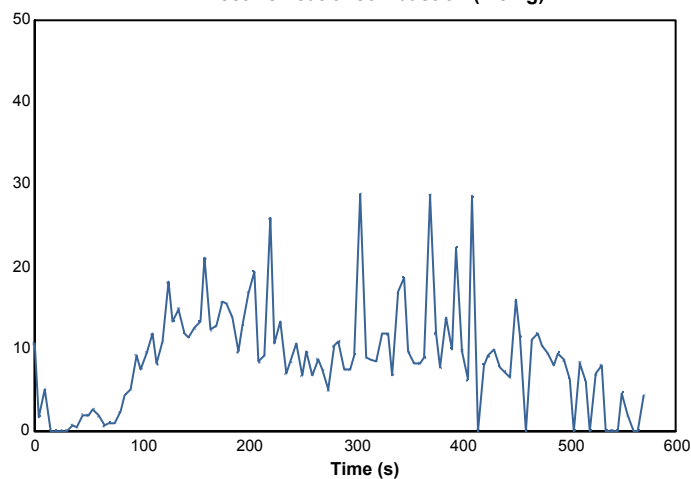
Test Number : 19-006865
Issue Date : 17/12/2019
Print Date : 18/12/2019

Specimen : 1

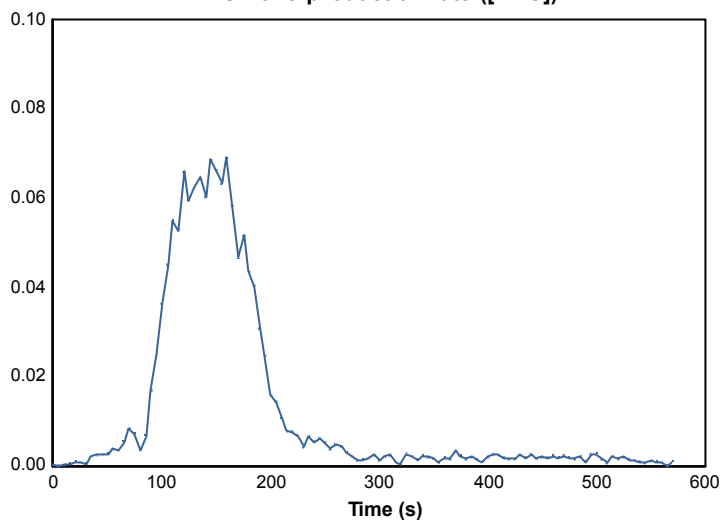
Heat release rate (kW/m²)



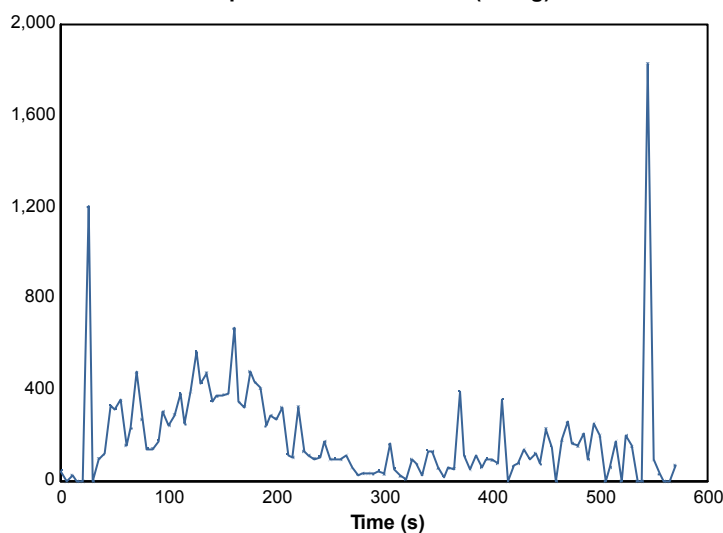
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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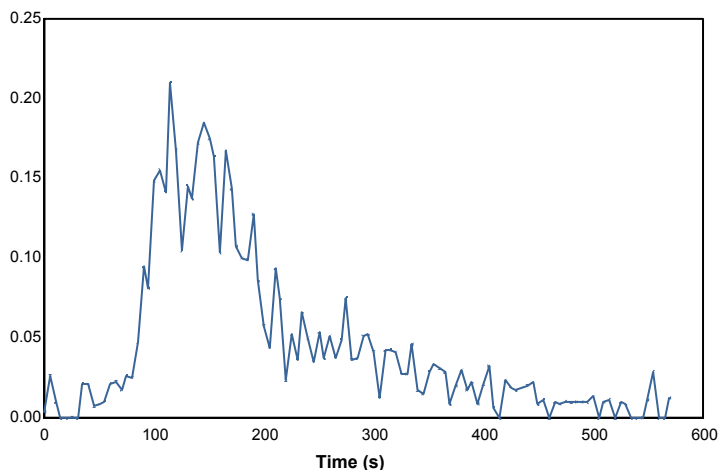
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TEST REPORT

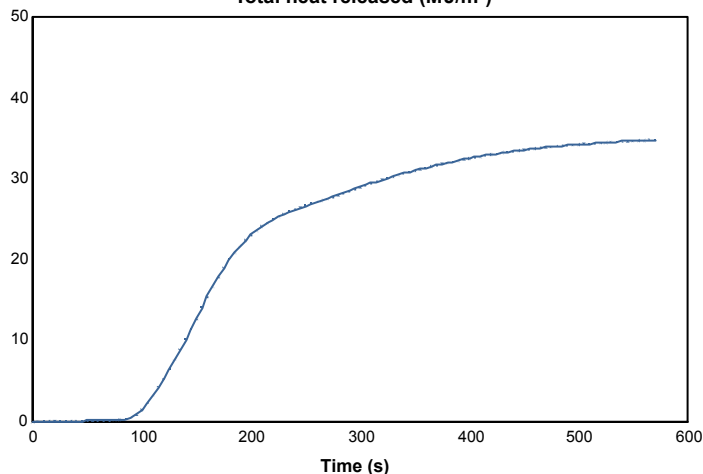
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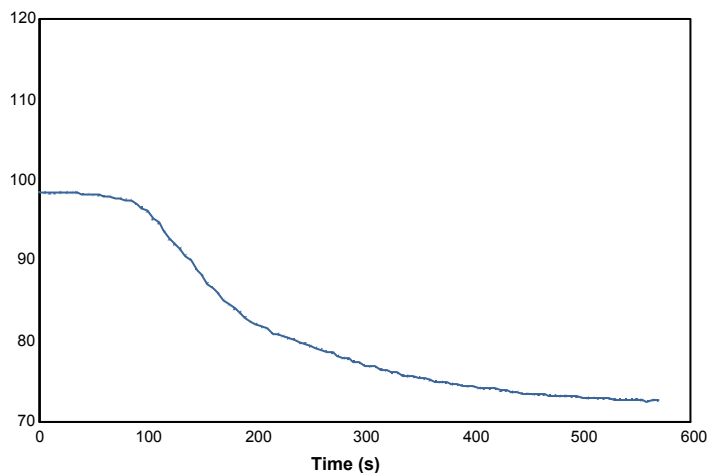
Mass loss rate (g/s)



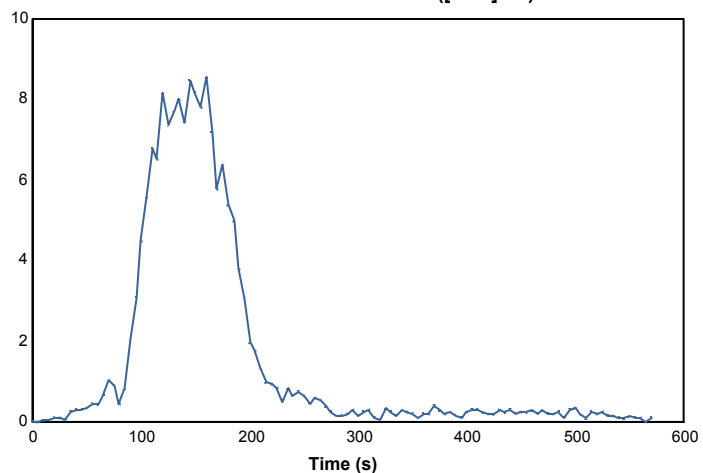
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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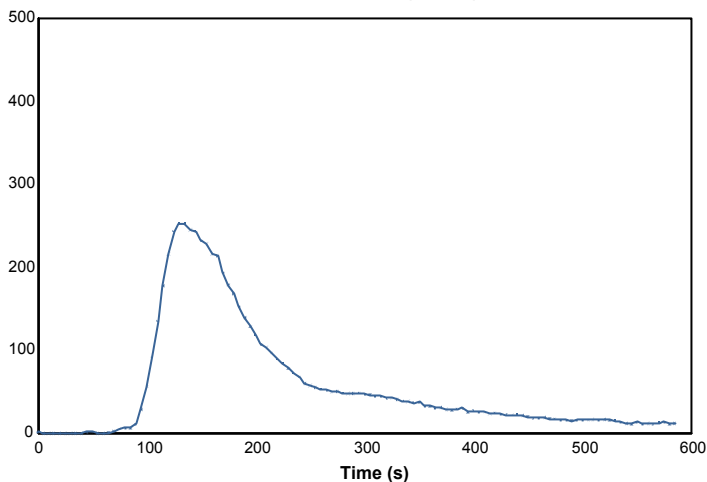
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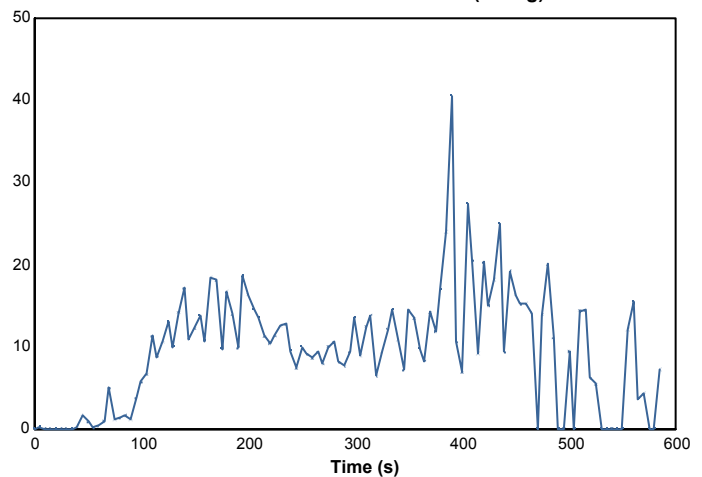
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Specimen : 2

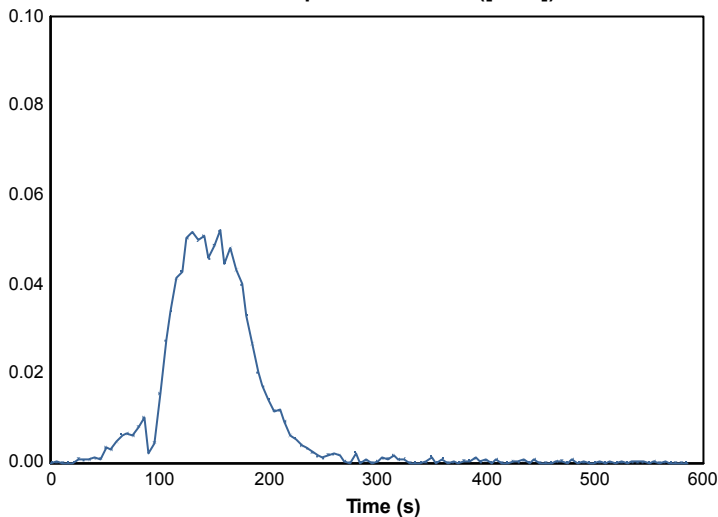
Heat release rate (kW/m²)



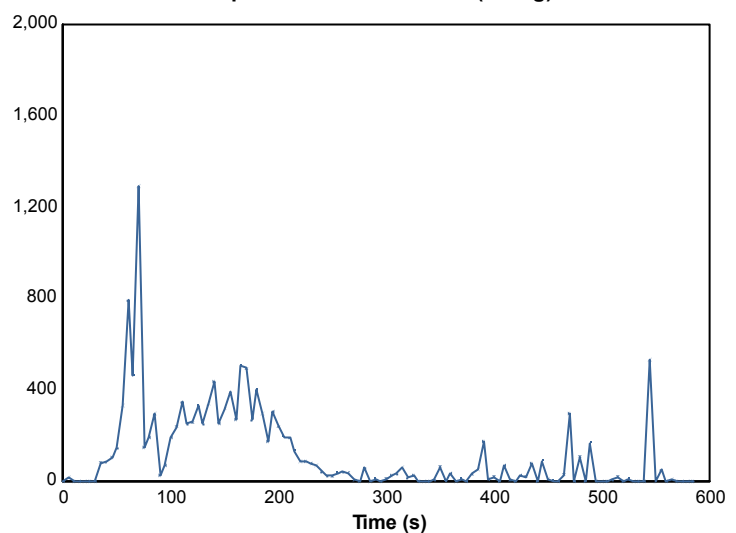
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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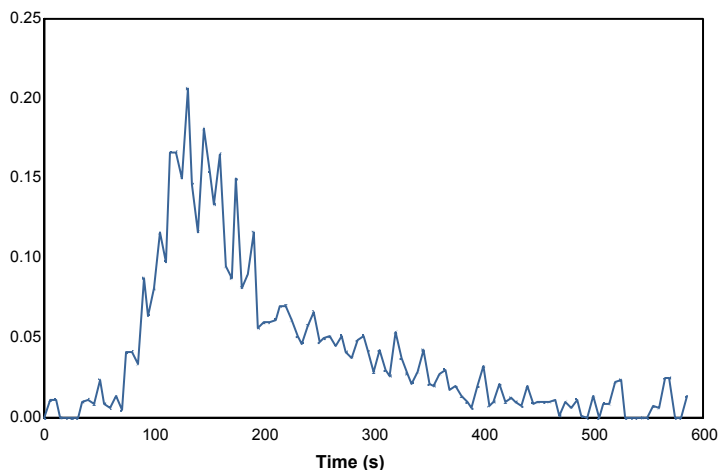
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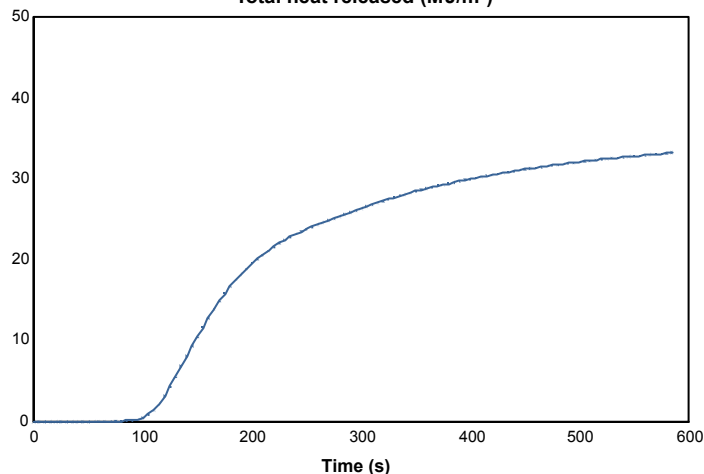
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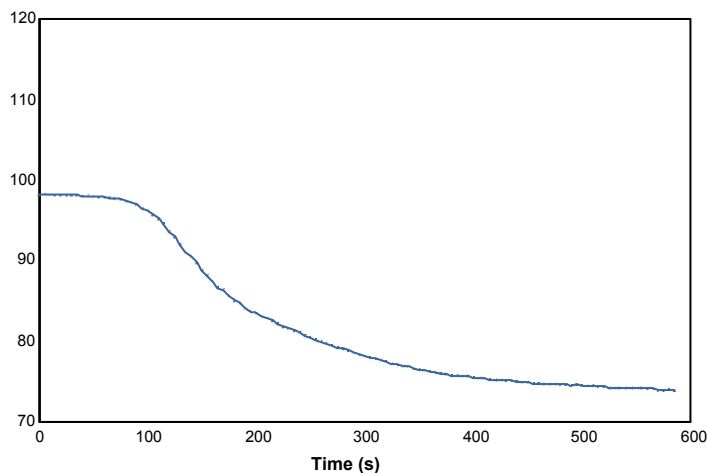
Mass loss rate (g/s)



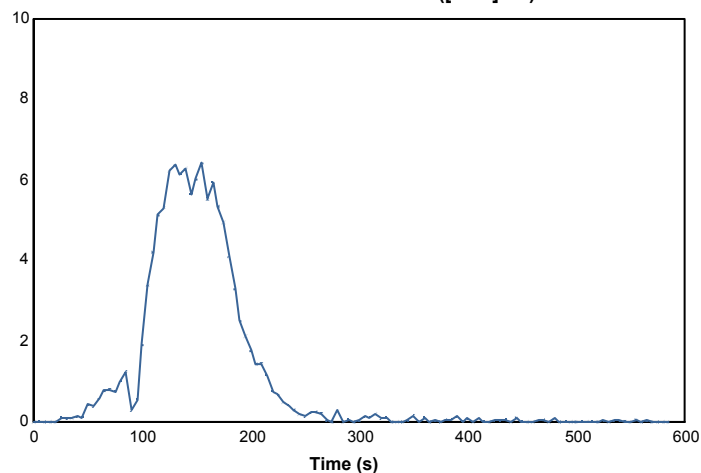
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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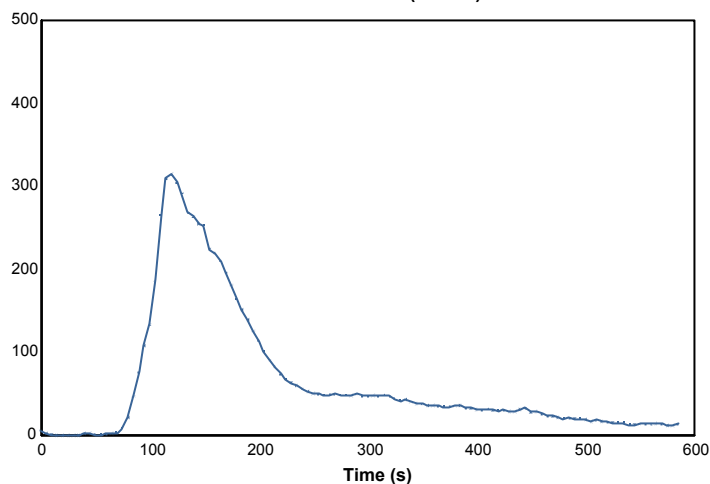
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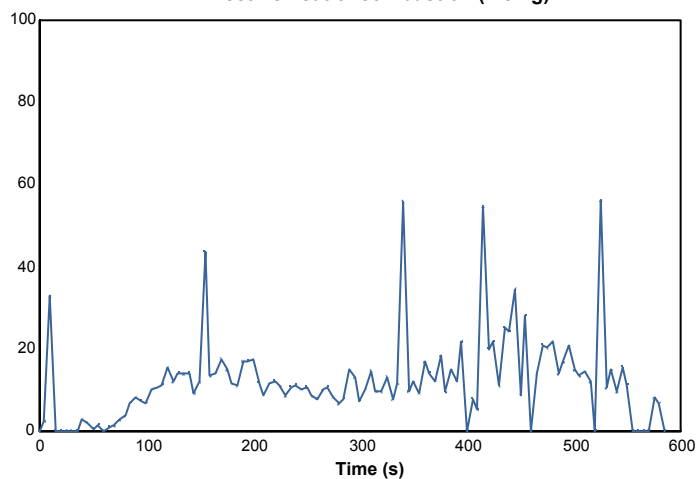
Test Number : 19-006865
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Specimen : 3

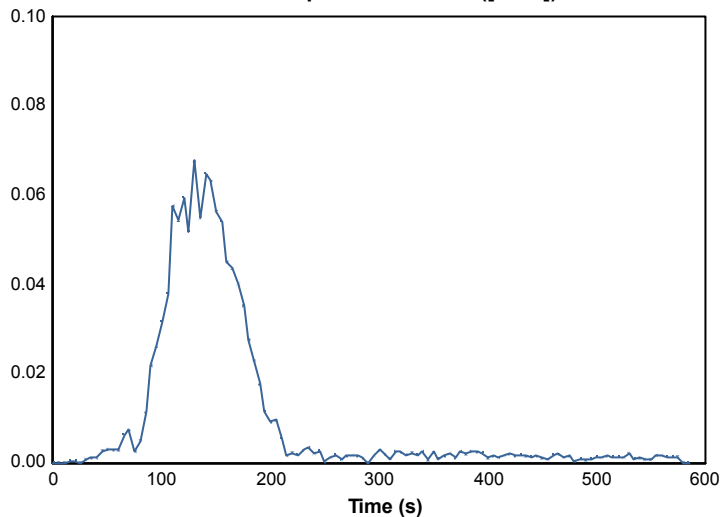
Heat release rate (kW/m²)



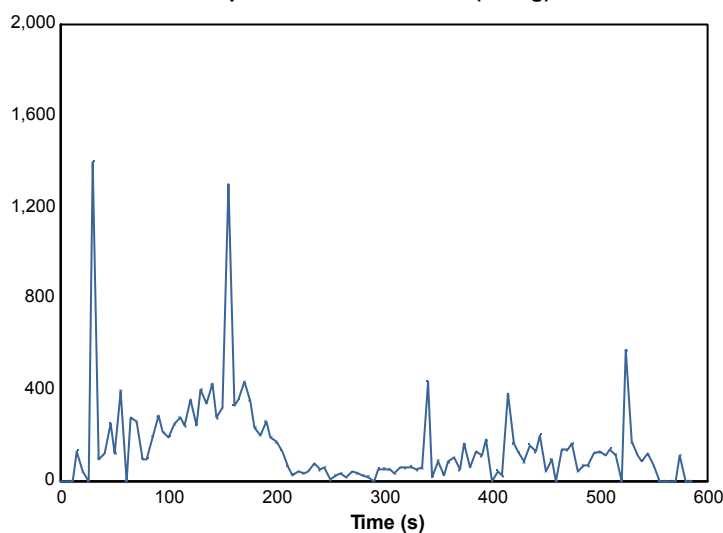
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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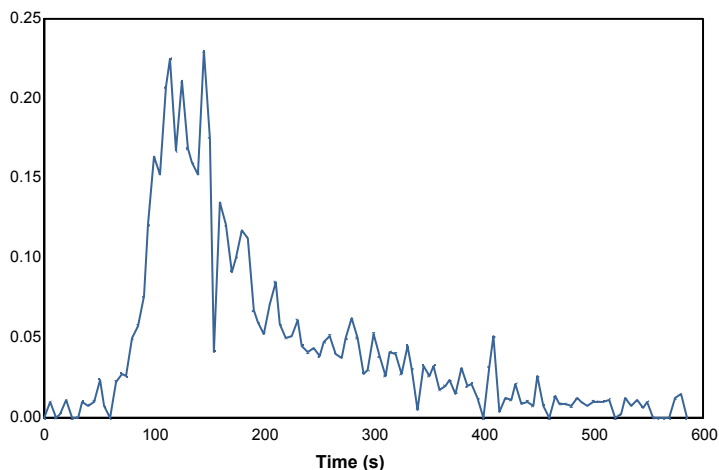
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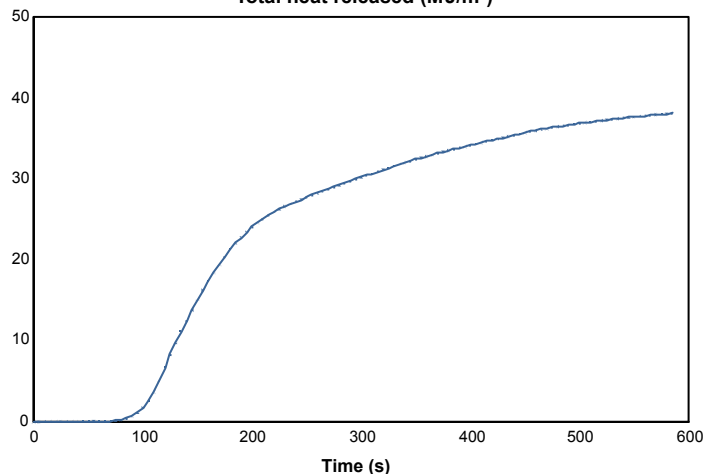
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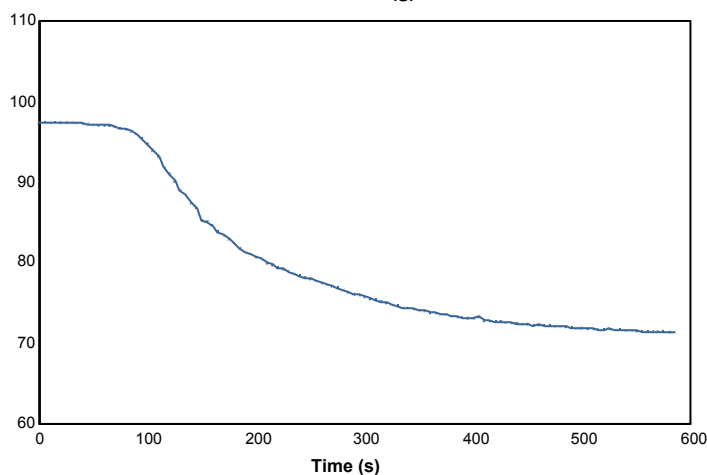
Mass loss rate (g/s)



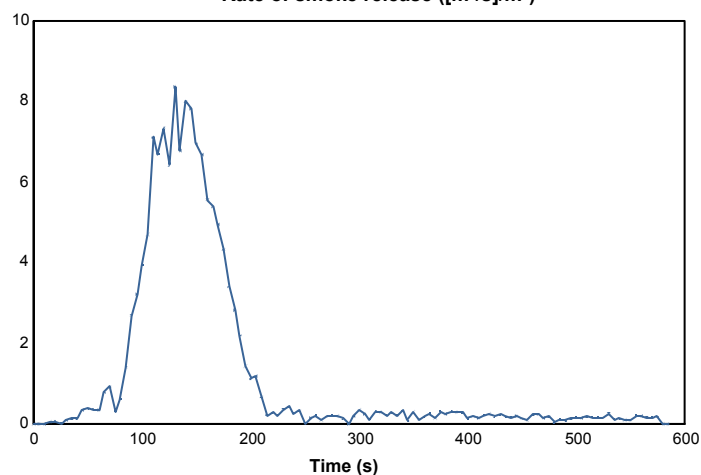
Total heat released (MJ/m²)



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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Sponsor Product Clients Ref : "Wave Dune"
Non-woven acoustic wallcovering
Colour : Off White
End Use : Wallcovering
Nominal Composition : 100% Polyester (45% Recycled)
Nominal Mass per Unit Area/Density : Approx 1378g/m2
Nominal Thickness : Approx 3mm

Product Group Number Classification : 3

Average Specific Extinction Area : 224.3 m²/kg



Fiona McDonald
Testing Technologist

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