

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 : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 17-003260
Issue Date : 18/07/2017
Print Date : 18/07/2017

Sample Description Clients Ref : "Mira/Lyra/Crux/Pyxis"
Textured wallpaper
Nominal Composition : Paper backed PVC
Nominal Mass per Unit Area/Density : Approx. 345g/m2

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	37.7	41.0	38.1	38.9	kW/m ²
Average Specific extinction area	26.0	29.5	31.2	28.9	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	24	24	24	24	L/sec
Time to sustained flaming	15	21	16	17	sec
Test duration	232	227	220	226	sec
Peak heat release after ignition	112.1	122.9	102.5	112.5	kW/m ²
Average heat at 60 s	75.5	83.8	81.2	80.2	kW/m ²
Average heat at 180 s	43.4	45.2	41.7	43.4	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	8.2	8.5	7.8	8.2	MJ/m ²
Average effective heat of combustion	6.1	6.5	6.2	6.3	MJ/kg

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- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
: Accreditation No. 1356



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APPROVED SIGNATORY

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

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Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	60.8	60.3	65.6	62.2	g
Mass remaining	50.1	49.4	55.2	51.5	g
Mass percentage pyrolysed	17.6	18.1	15.9	17.2	%
Mass loss	10.7	10.9	10.4	10.7	g
Average rate of mass loss	6.1	6.3	6.1	6.2	g/m ² .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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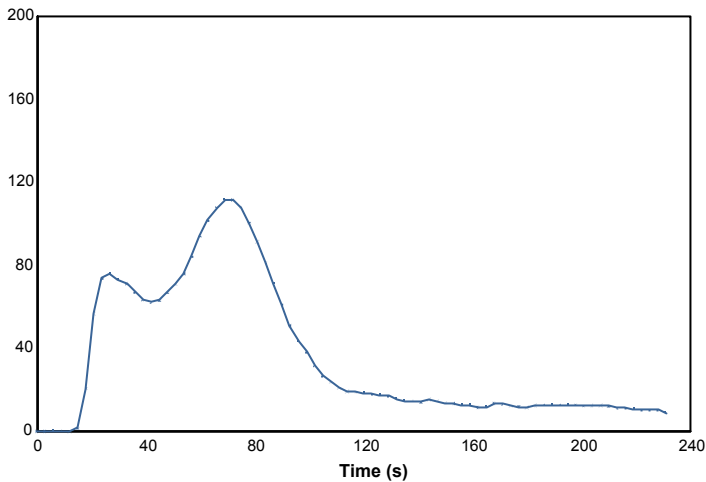
TEST REPORT

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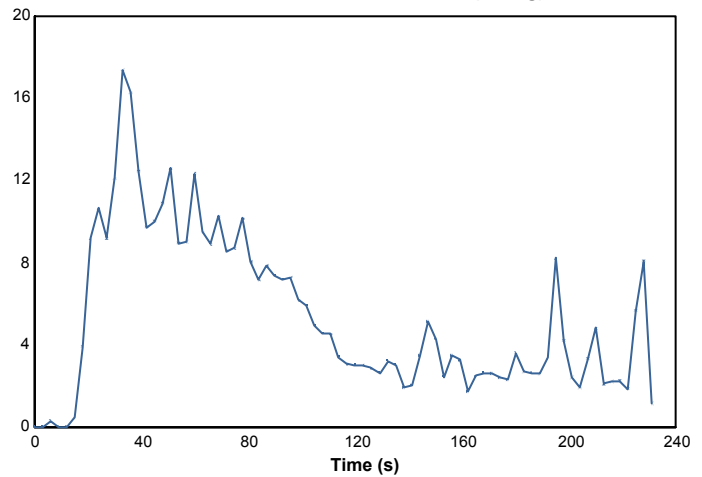
Test Number : 17-003260
Issue Date : 18/07/2017
Print Date : 18/07/2017

Specimen : 1

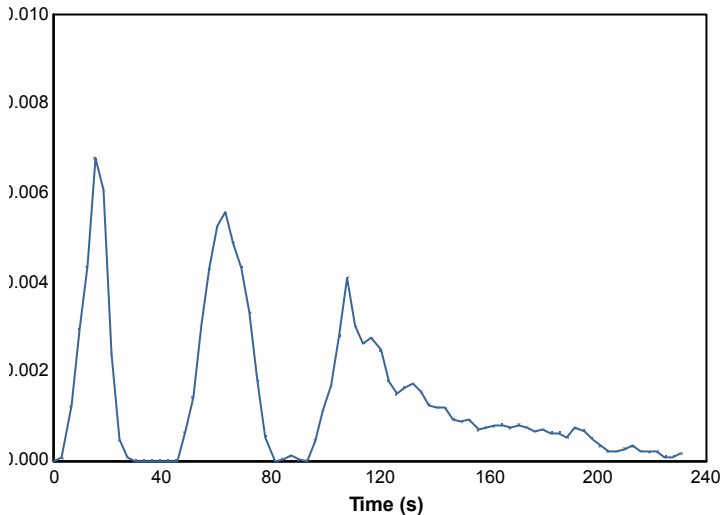
Heat release rate (kW/m²)



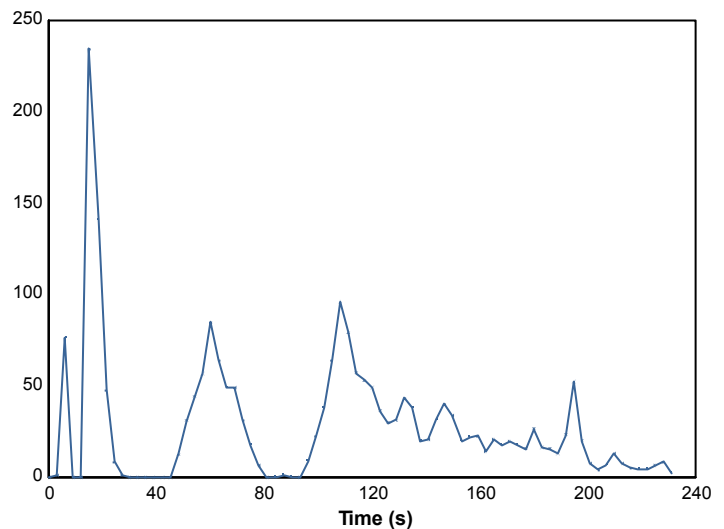
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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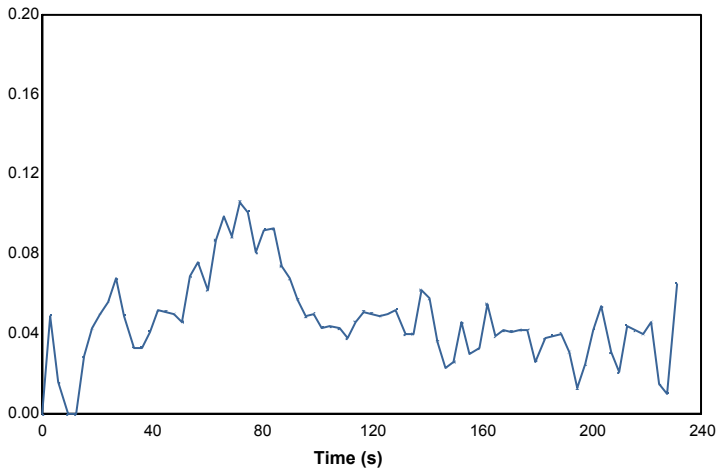
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TEST REPORT

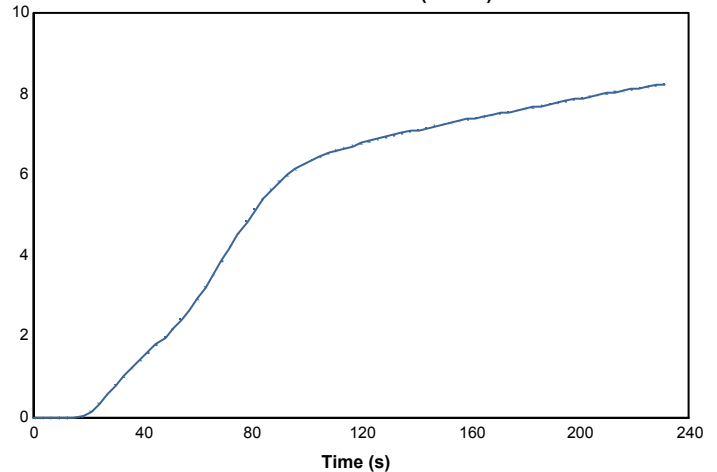
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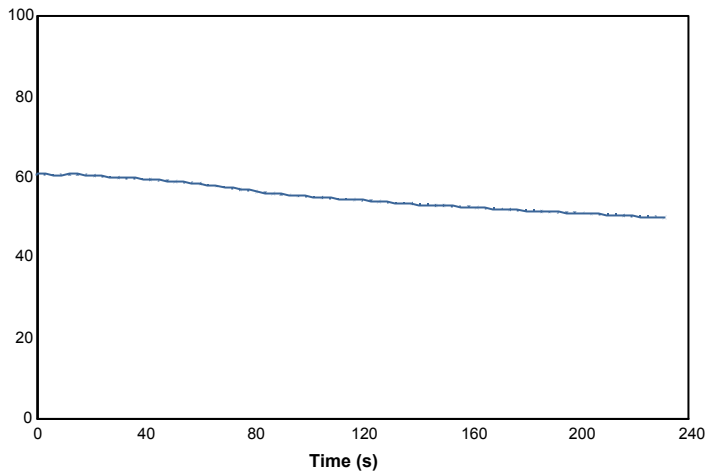
Mass loss rate (g/s)



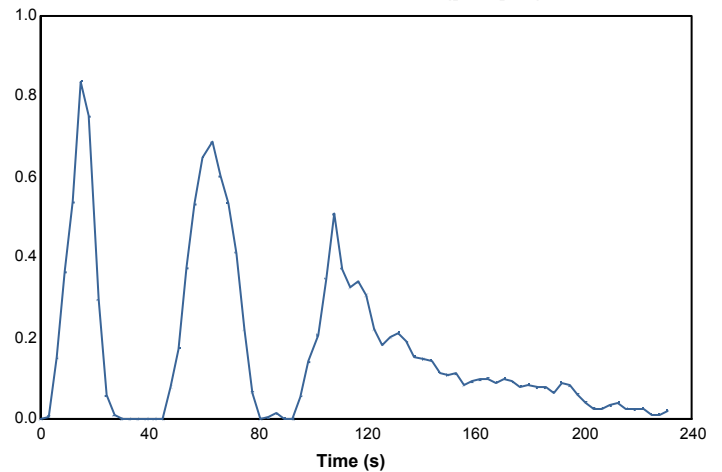
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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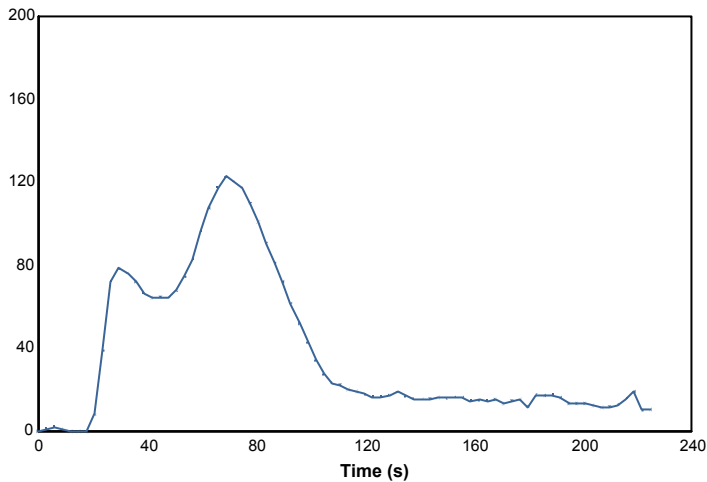
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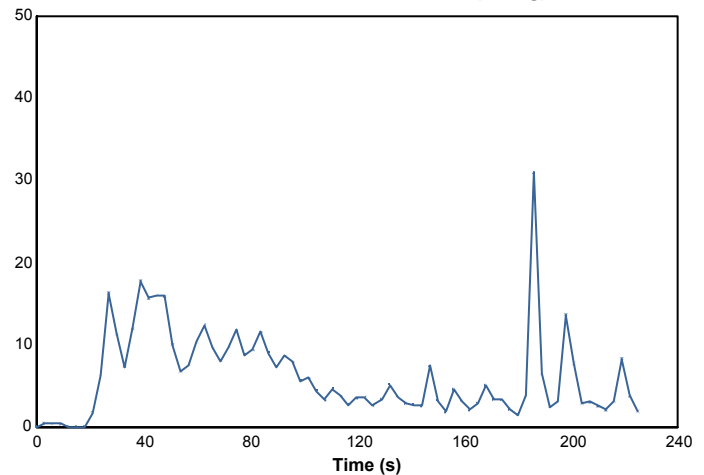
Test Number : 17-003260
Issue Date : 18/07/2017
Print Date : 18/07/2017

Specimen : 2

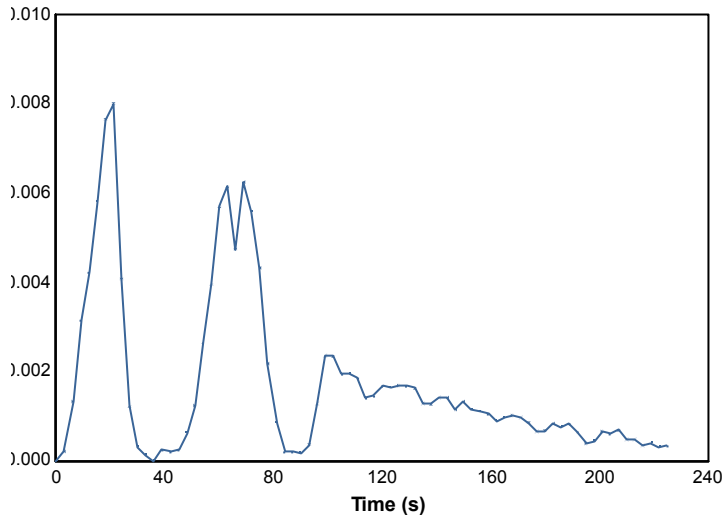
Heat release rate (kW/m²)



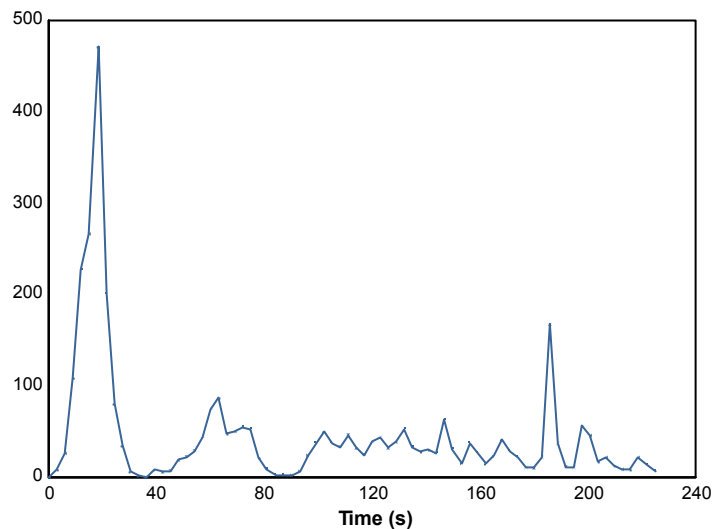
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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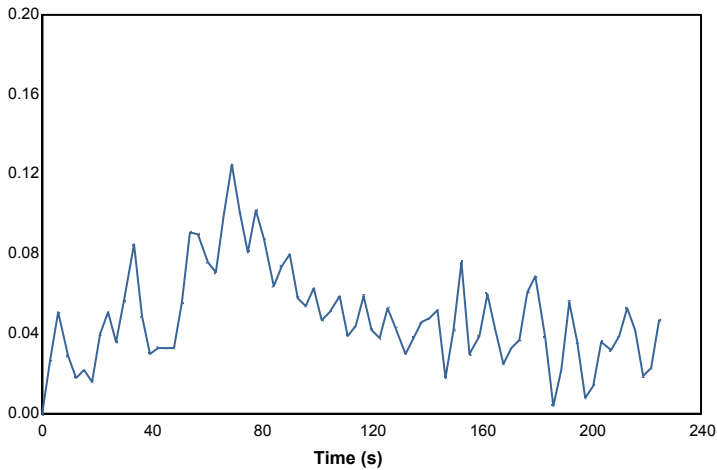
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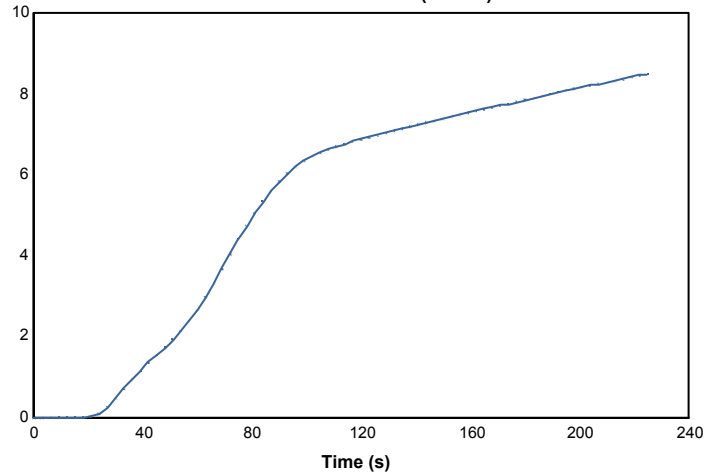
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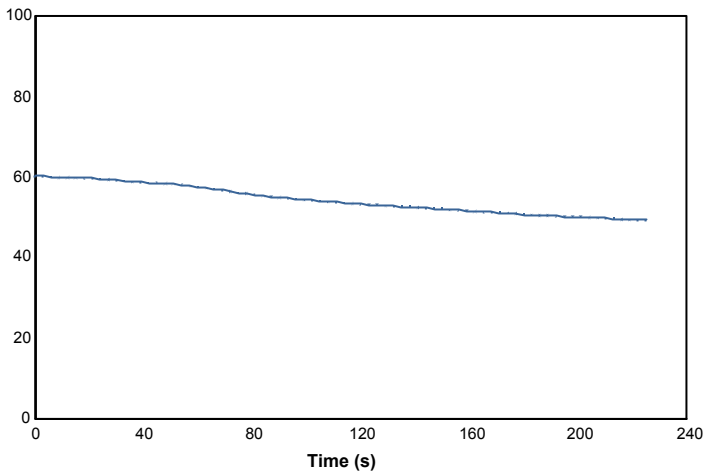
Mass loss rate (g/s)



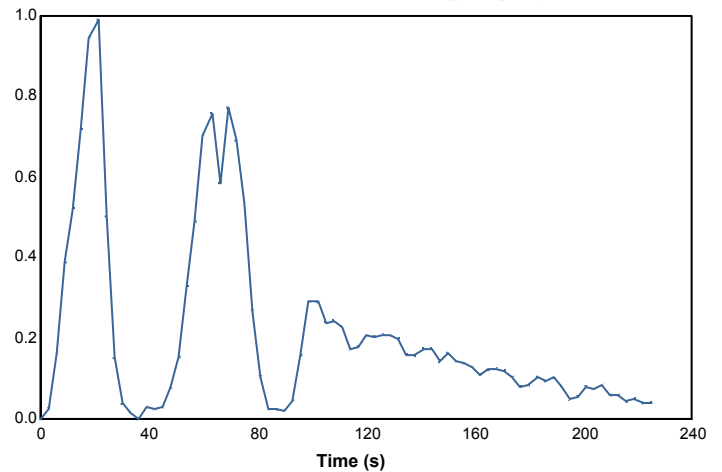
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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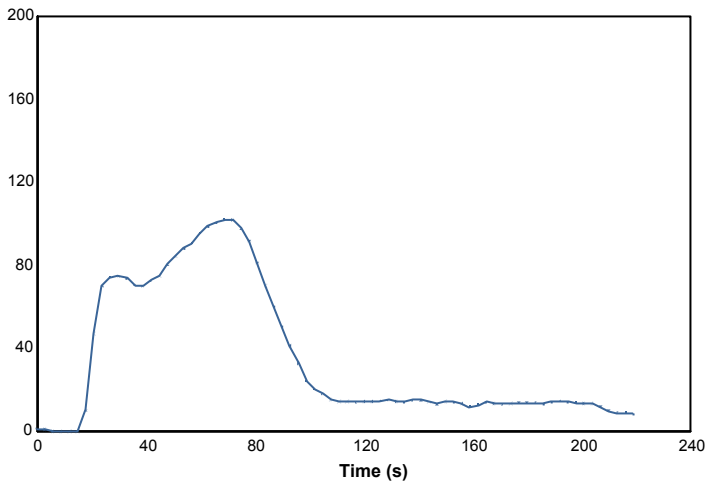
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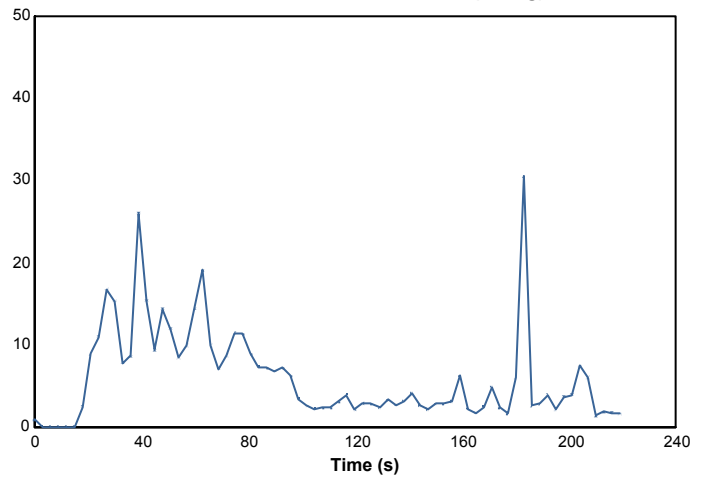
Test Number : 17-003260
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Specimen : 3

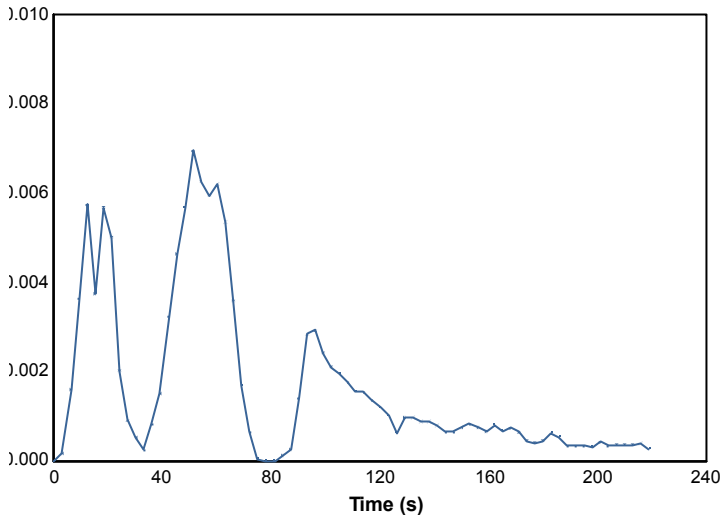
Heat release rate (kW/m²)



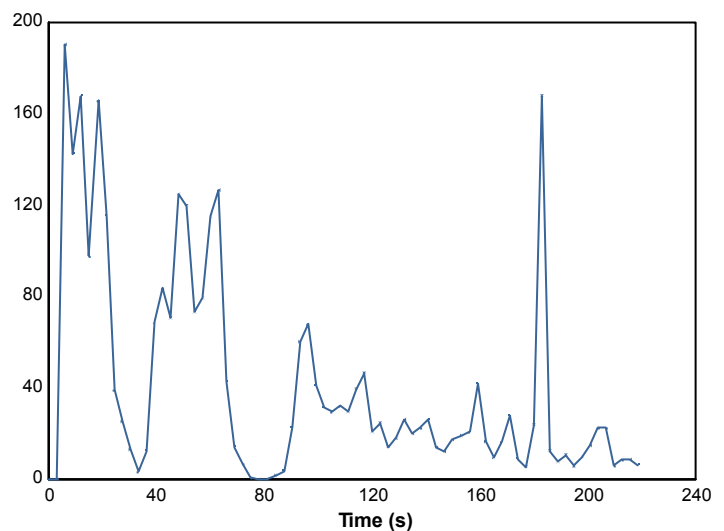
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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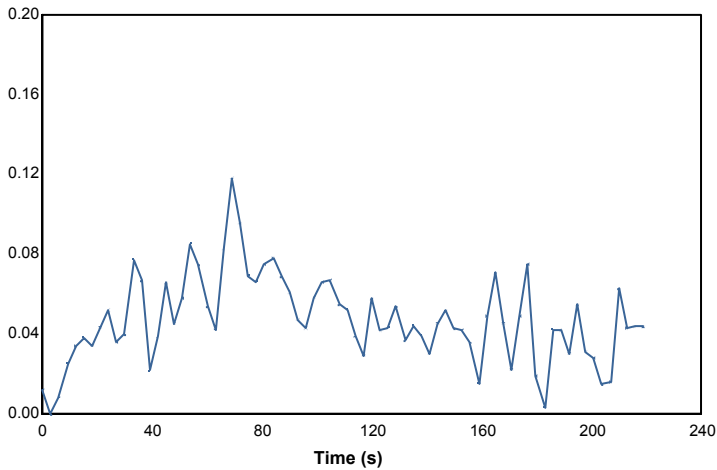
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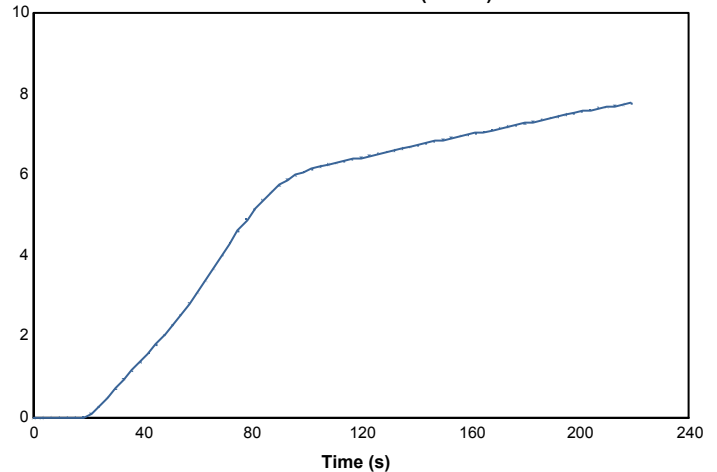
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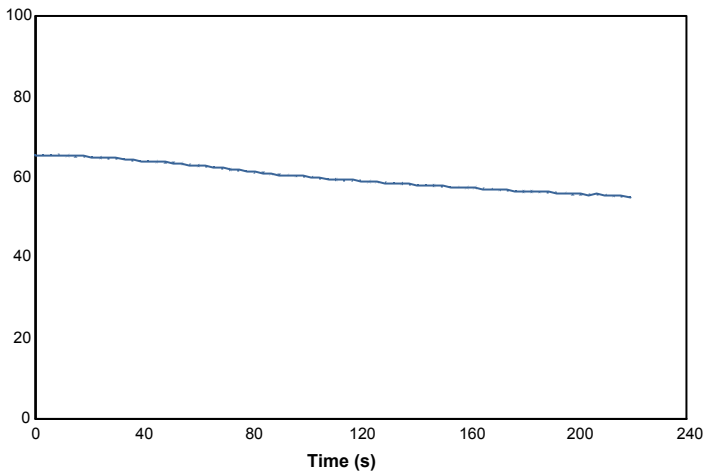
Mass loss rate (g/s)



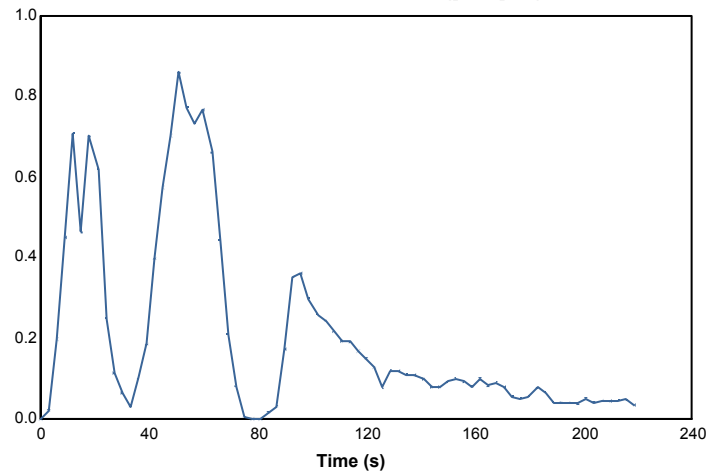
Total heat released (MJ/m²)



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 : Unique Fabrics
6 Mt Eden Road
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Test Number : 17-003260
Issue Date : 18/07/2017
Print Date : 26/07/2017

Sponsor Product Clients Ref : "Mira/Lyra/Crux/Pyxis"
Textured wallpaper
Nominal Composition : Paper backed PVC
Nominal Mass per Unit Area/Density : Approx. 345g/m2

Product Group Number Classification : 1
Average Specific Extinction Area : 28.9 m²/kg



Chris Campbell
Client Relations Manager

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