

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

Test Number : 19-006161
Issue Date : 26/11/2019
Print Date : 13/08/2020

Replacement of Initial Report dated :02/12/2019

Sample Description Clients Ref : "Type 03 Atelier,Artic Fever, Avalon, Curiosa, Figura, Focus, Galena, Lino, Mahlia, Mirage, Monsoon, New Heritage, Signature, Selva, Expedition"
Paperbacked vinyl wall covering
Nominal Composition : PVC on paper backing
Nominal Mass per Unit Area/Density : 605g/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 26/11/2019
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	20.2	26.8	30.2	25.7	kW/m ²
Average Specific extinction area	47.7	88.5	59.8	65.3	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	5	4	8	6	sec
Test duration	590	451	375	472	sec
Peak heat release after ignition	91.6	173.1	113.4	126.0	kW/m ²
Average heat at 60 s	77.4	97.2	89.0	87.9	kW/m ²
Average heat at 180 s	39.4	47.4	43.4	43.4	kW/m ²
Average heat at 300 s	30.7	35.1	33.3	33.0	kW/m ²

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- 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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Total heat released	11.8	12.0	11.0	11.6	MJ/m ²
Average effective heat of combustion	5.4	5.7	6.1	5.8	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	66.6	66.6	68.3	67.2	g
Mass remaining	48.3	49.5	53.5	50.4	g
Mass percentage pyrolysed	27.5	25.6	21.7	24.9	%
Mass loss	2.3	2.1	1.8	2.1	kg/m ²
Average rate of mass loss	3.7	4.7	5.0	4.5	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.

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 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

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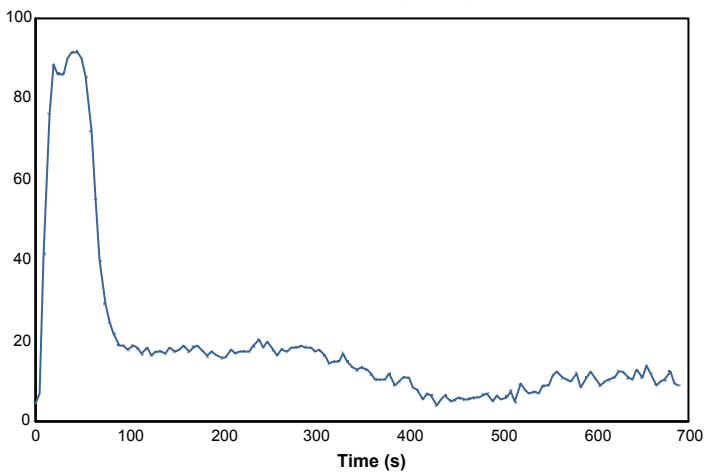
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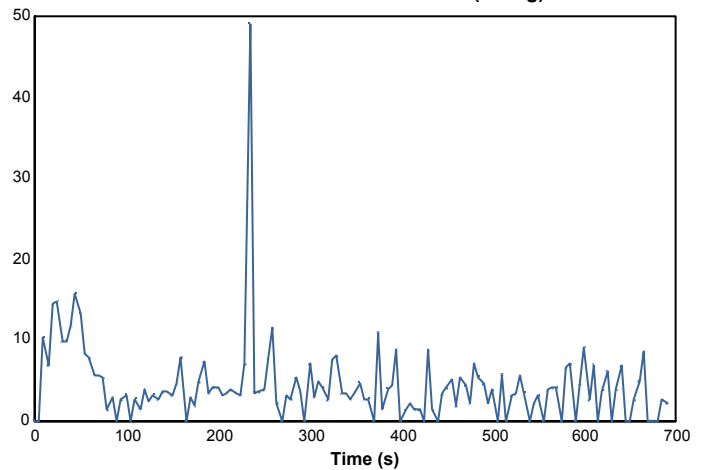
Replacement of Initial Report dated :02/12/2019

Specimen : 1

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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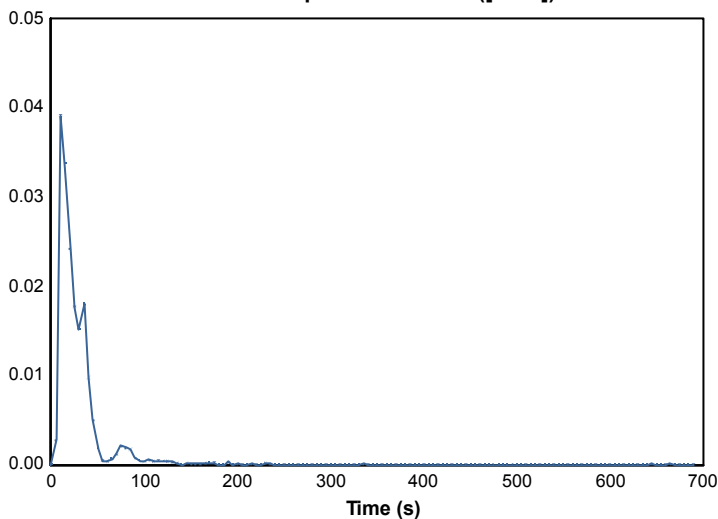
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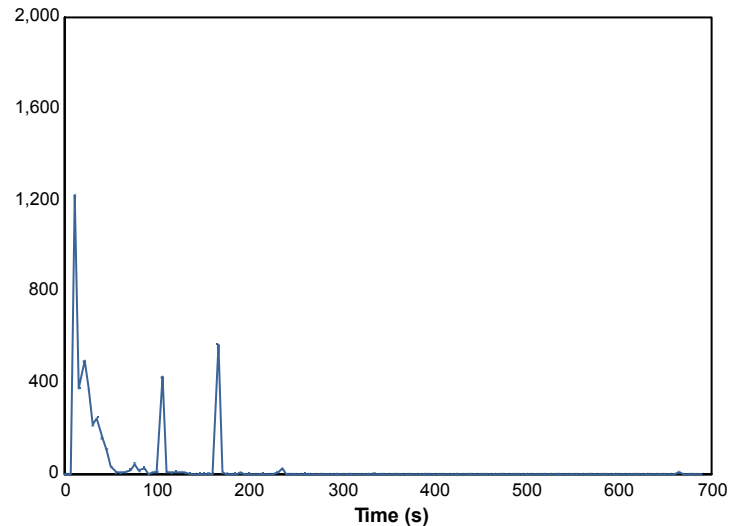
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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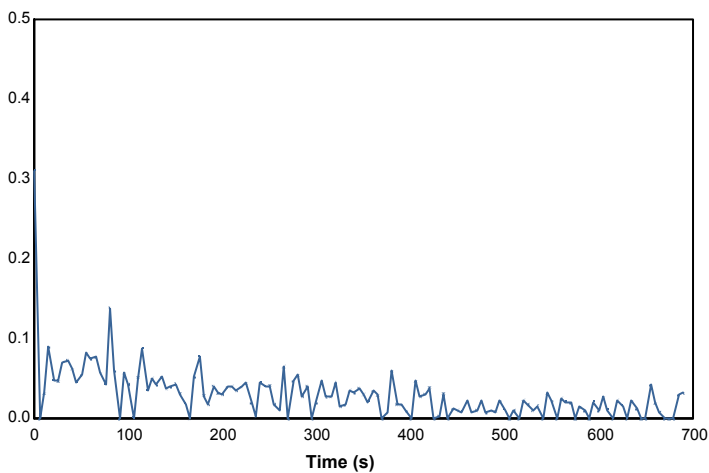
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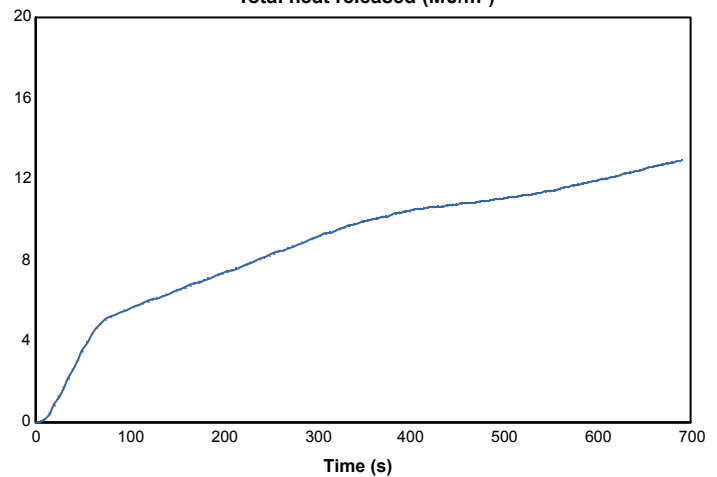
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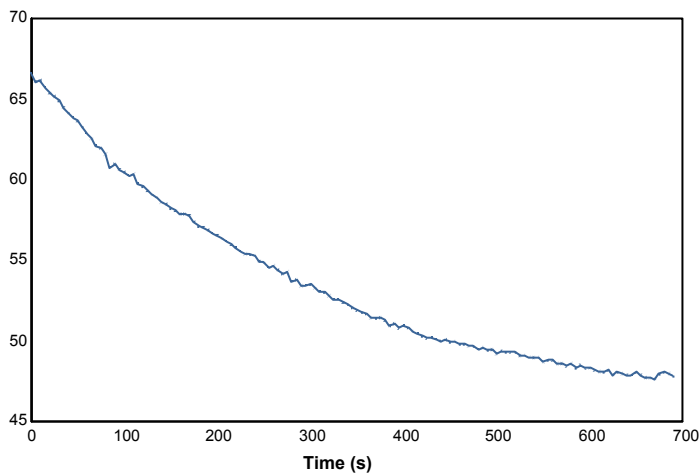
Mass loss rate (g/s)



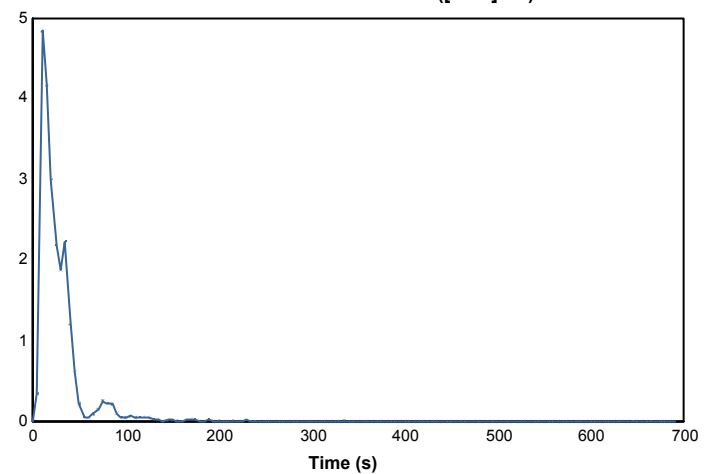
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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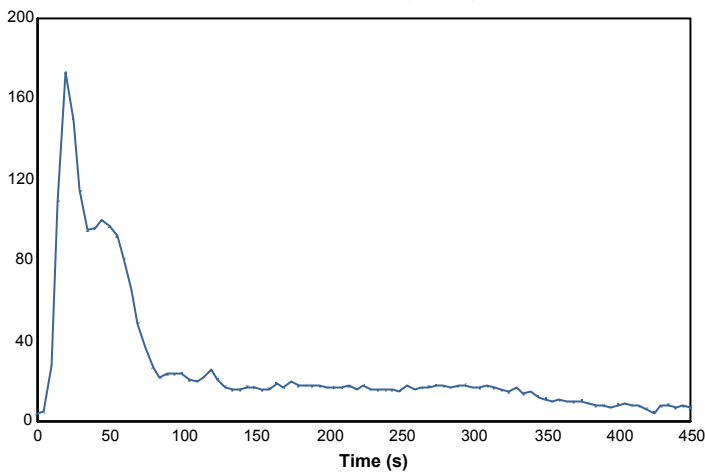
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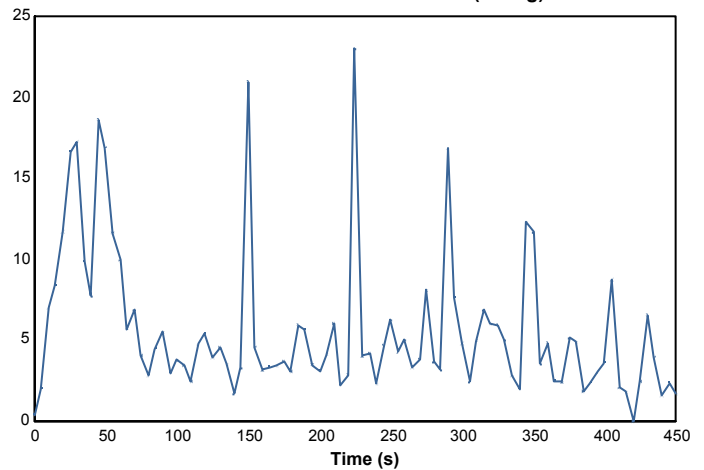
Replacement of Initial Report dated :02/12/2019

Specimen : 2

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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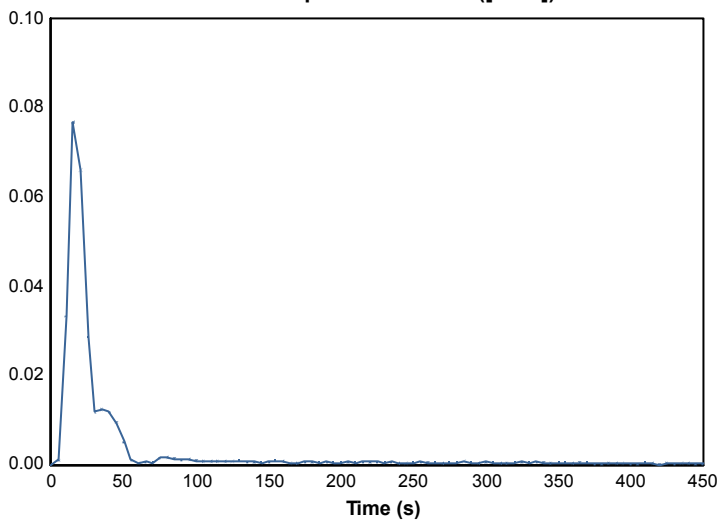
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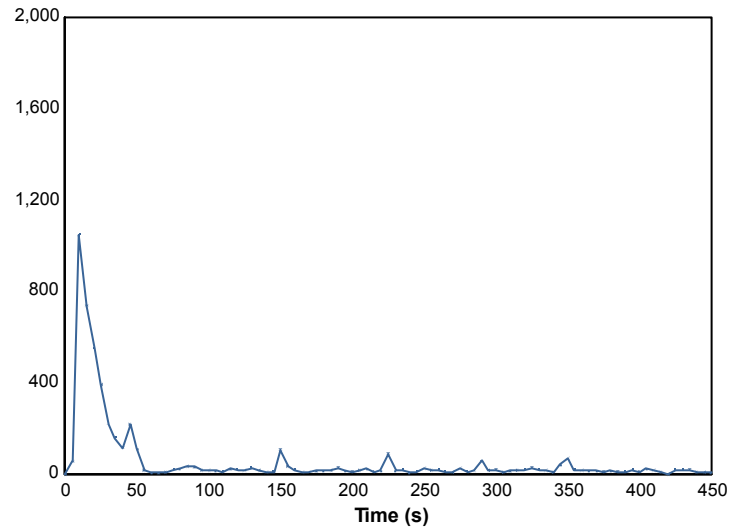
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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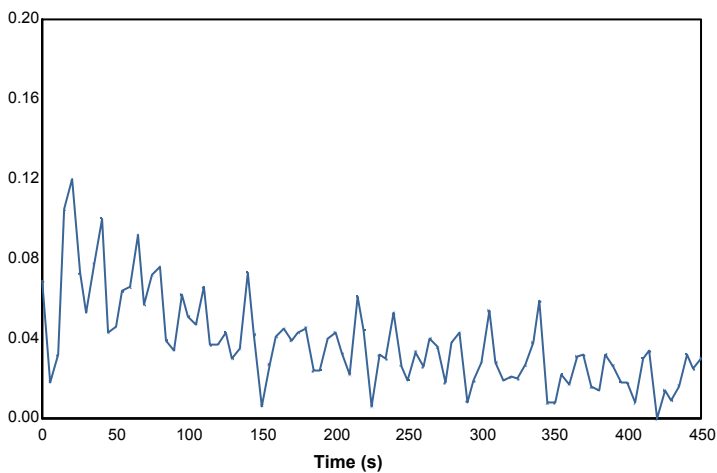
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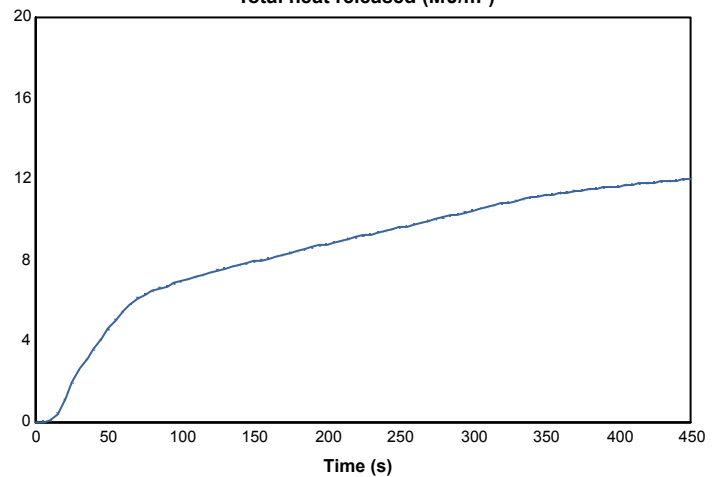
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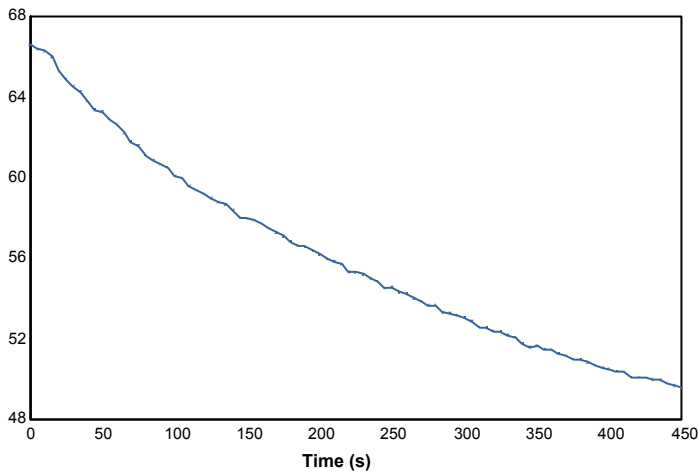
Mass loss rate (g/s)



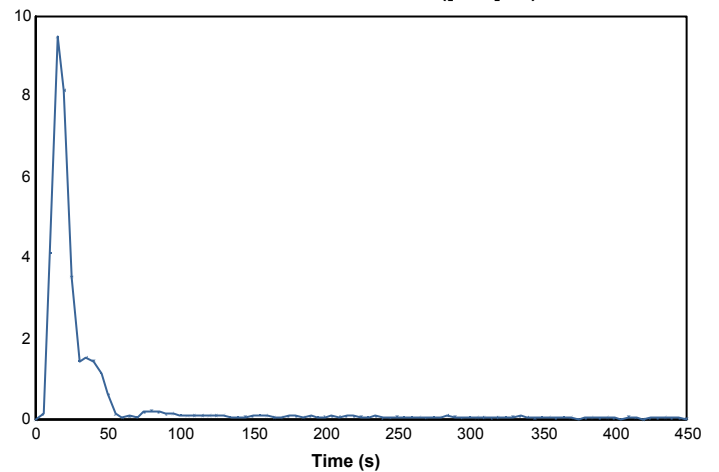
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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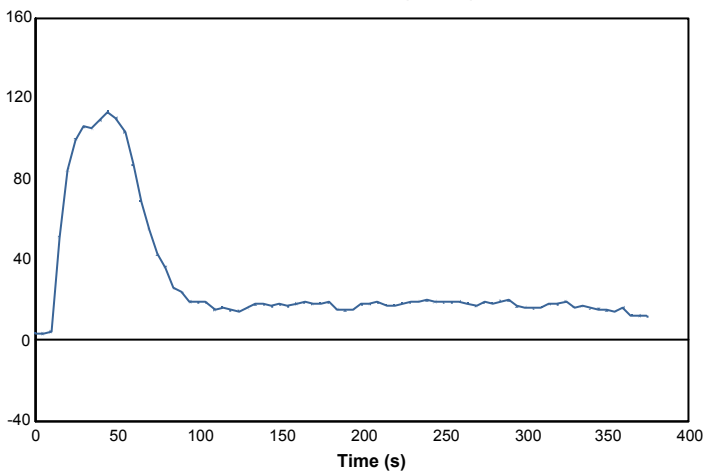
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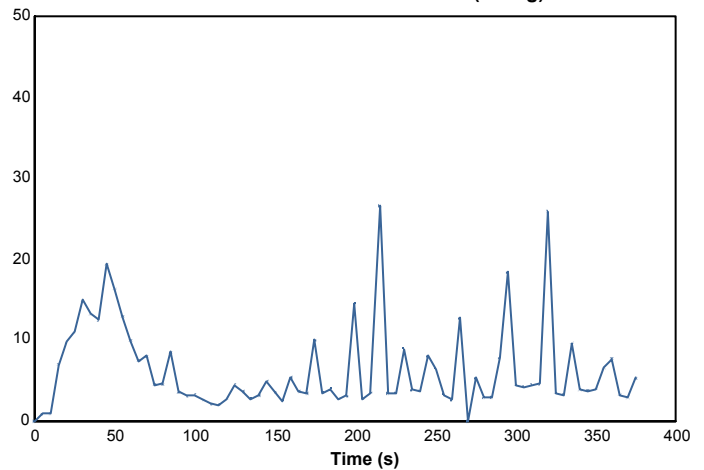
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Specimen : 3

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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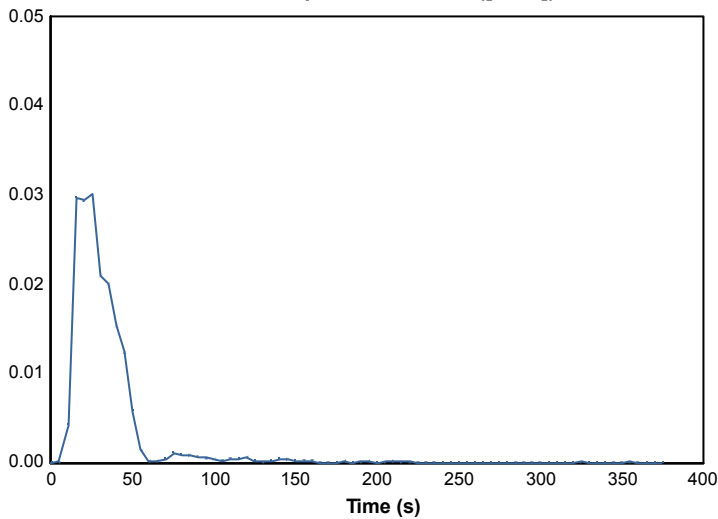
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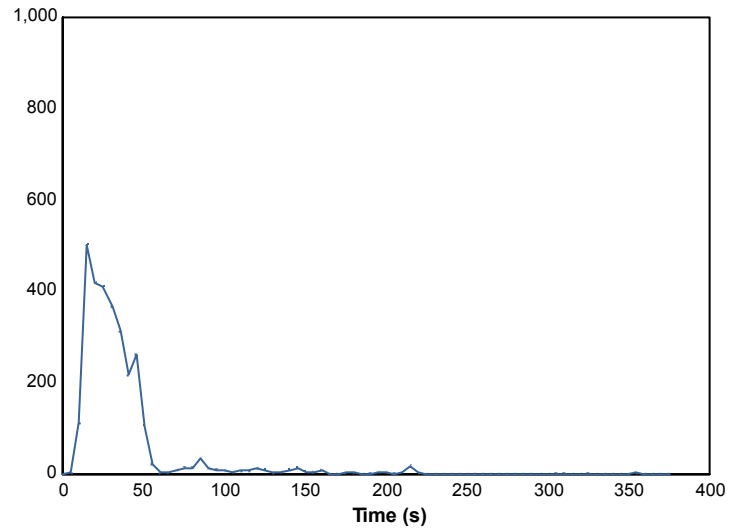
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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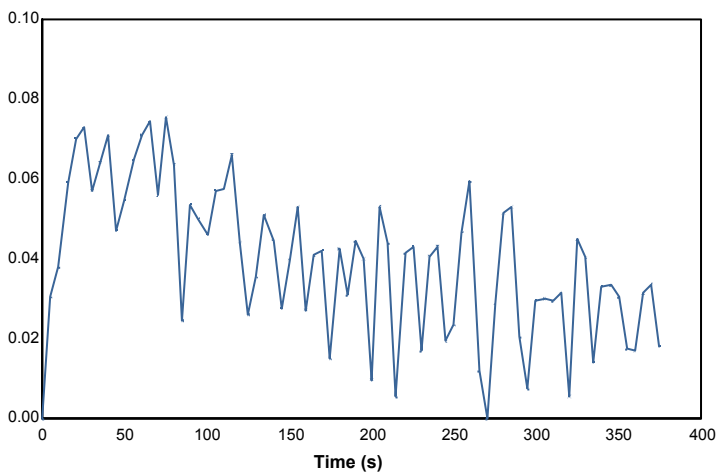
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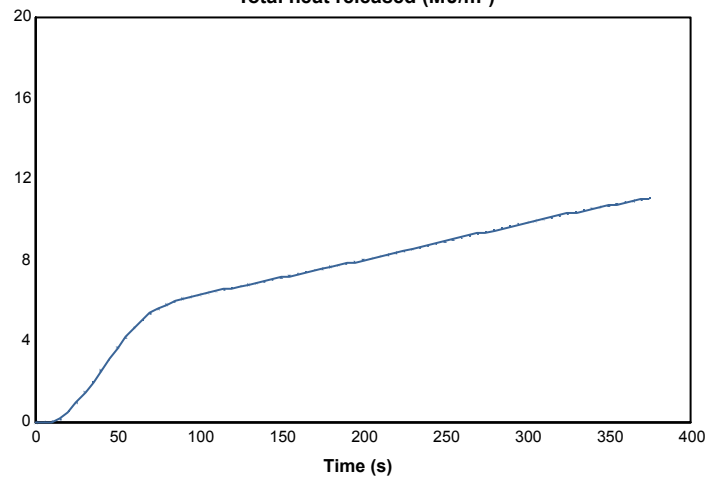
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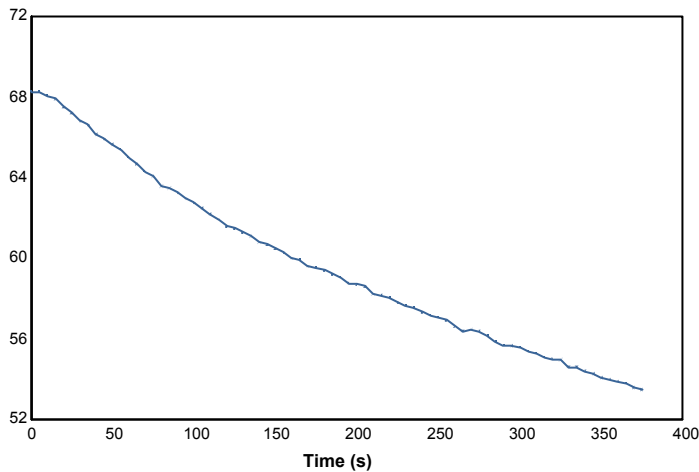
Mass loss rate (g/s)



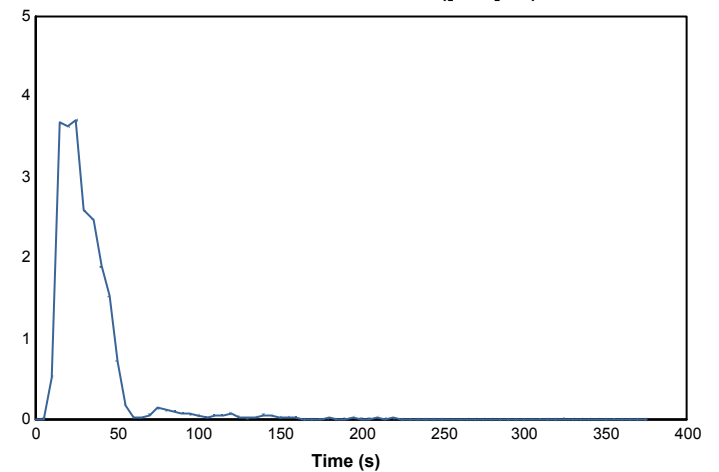
Total heat released (MJ/m²)



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
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 19-006161
Issue Date : 27/11/2019
Print Date : 13/08/2020

Sponsor Product Clients Ref : "Type 03 Atelier, Artic Fever, Avalon, Curiosa, Figura, Focus, Galena, Lino, Mahlia, Mirage, Monsoon, New Heritage, Signature, Selva, Expedition"
Paperbacked vinyl wall covering
Nominal Composition : PVC on paper backing
Nominal Mass per Unit Area/Density : 605g/m²
Nominal Thickness : Approx <1mm

Product Group Number Classification : 2

Average Specific Extinction Area : 65.3 m²/kg



Fiona McDonald
Testing Technologist

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