

# 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 :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

### Replacement of Initial Report dated :02/10/2019

#### Sample Description

Clients Ref : "Essentials, Wildwalk, Sketch, Essentials / Les Nuances"

Wallpaper sample

Colour : Various

End Use : Wallcovering

Nominal Composition : Non woven substrate with water based ink and decorative elements

Nominal Mass per Unit Area/Density : 277g/m2

Nominal Thickness : Approx 0.5mm

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APPROVED SIGNATORY

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

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#### Commerical Names of Product

Alchemy	Basalt	Berluti	Classic Impressions
Classic Victory	Classy Vibes	Delicate Chic	Favourite twist
Figura	Flamant	Flamant Caractere	Flamant Suite I
Flamant Suite II	Flamant Suite III Velvet	Flamant Suite IV refinded structures	Flamant Suite V Mystic
Impressions	Flamant Les Memoires	Flamant les Mineraux	Flament les Rayures
Flamant les Unis	Flavor Paper	Gentle Groove	Hidden Treasures
Jungle Jive	Le Corbusier	Le Corbusier Dots	Les Docors d'Arte
Ligna	New Elegance	Noctis	Memento
Metal X	Metal X Signum	Mixed Moods	Monochrome
Paper Craft	Pure Impulse	Revere	Rhapsody
Sahco	Shibori	Splendid Living	

Tinted Tiles: Opulent, Lush, Flake, Helix, Groove, Blend, Twist , Tangle

MOOOI: Calligraphy Bird, Blooming Seadragon, Aristo,Quagga, Blushing Sloth, Umbrella Squid,

Insolence: Temper, Shiver, Vanity, Blast, Nerve, Moxie

Cantala: Craft, Combo, String

Vanguard: Plex, Mira, Modernist, Tessella, Traverse

Paleo: Latus, Empire, Civilia, Strata

Exotique: Carmona, Cumulus, Scala, Tembo

Exotique: Meru, Sabal

Nomadia: Aster, Accra, Axim, Hedera, Solid, Mazuri

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#### AS/NZS 3837-1998

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

Date Tested 16/08/2019  
Face Tested Face

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	20.1	28.2	18.7	23.9	32.0	19.8	23.8	kW/m <sup>2</sup>
Average Specific extinction area	10.3	10.6	7.0	18.8	12.7	10.7	11.7	m <sup>2</sup> /kg

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

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	38	29	30	33	30	31	32	sec
Test duration	304	369	340	374	223	375	331	sec
Peak heat release after ignition	106.4	148.0	68.8	119.0	97.2	87.3	104.5	kW/m <sup>2</sup>
Average heat at 60 s	50.2	84.5	41.6	67.5	56.5	56.5	59.4	kW/m <sup>2</sup>
Average heat at 180 s	27.0	41.8	24.3	36.1	33.0	29.8	32.0	kW/m <sup>2</sup>
Average heat at 300 s	n/a	30.8	19.1	26.1	n/a	22.0	16.3	kW/m <sup>2</sup>
Total heat released	5.7	9.7	5.8	8.3	6.2	6.9	7.1	MJ/m <sup>2</sup>
Ave. effective heat of combustion	4.0	5.6	3.8	5.3	5.3	4.4	4.7	MJ/kg
Initial thickness	10.5	10.5	10.5	10.7	10.5	10.5	10.5	mm
Initial mass	58.9	65.6	63.5	58.7	59.9	64.6	61.9	g
Mass at sustained flaming								
Mass remaining	48.0	51.6	51.3	45.9	50.5	51.7	49.8	g

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Mass percentage pyrolysed	18.4	21.3	19.3	21.9	15.7	20.0	19.4	%
Mass loss	1.3	1.7	1.5	1.6	1.2	1.6	1.5	kg/m <sup>2</sup>
Average rate of mass loss	5.0	5.1	4.9	4.5	6.1	4.6	5.0	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 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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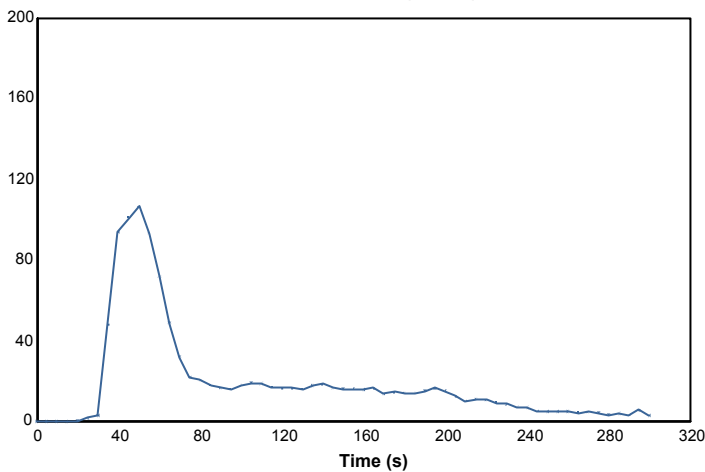
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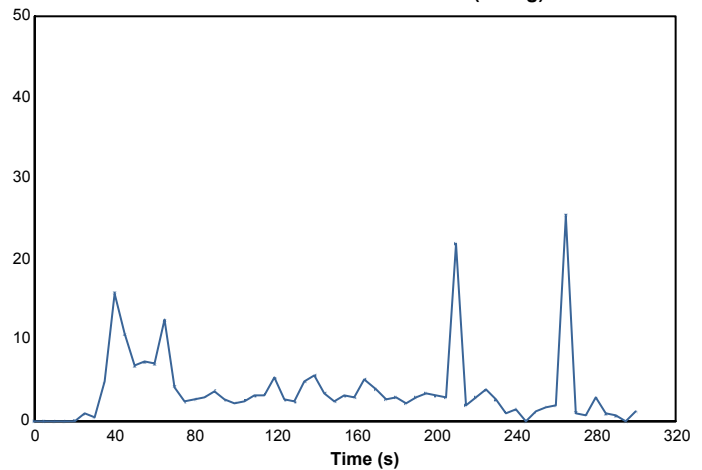
**Replacement of Initial Report dated :02/10/2019**

**Specimen :** 1

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



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



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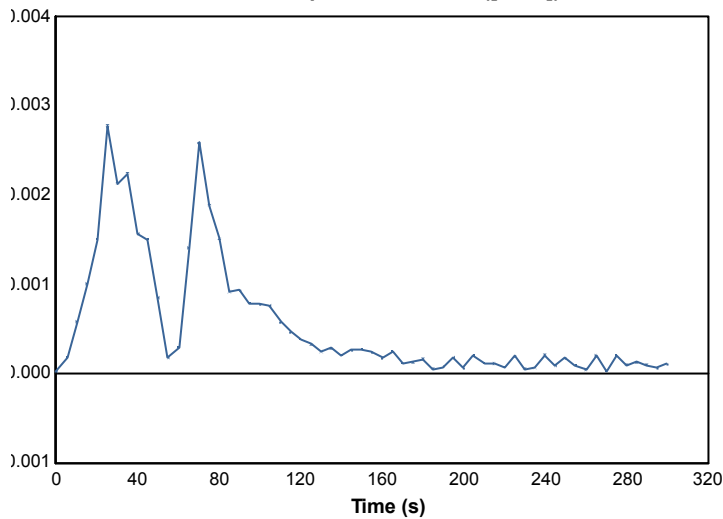
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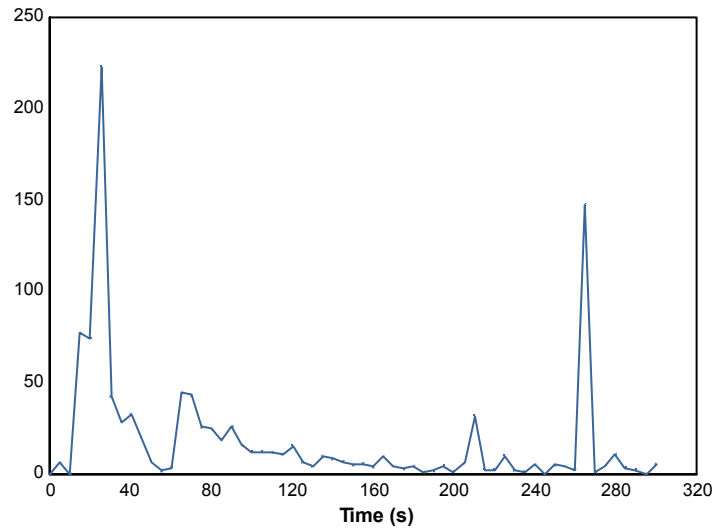
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**Replacement of Initial Report dated :02/10/2019**

**Smoke production rate ( $m^2/s$ )**



**Specific extinction area ( $m^2/kg$ )**



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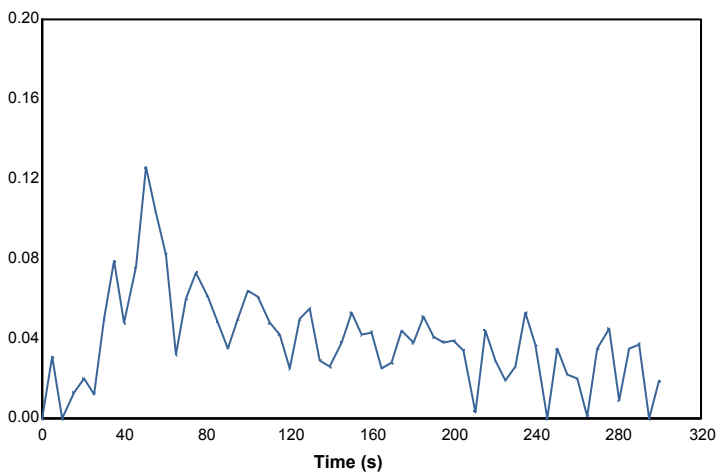
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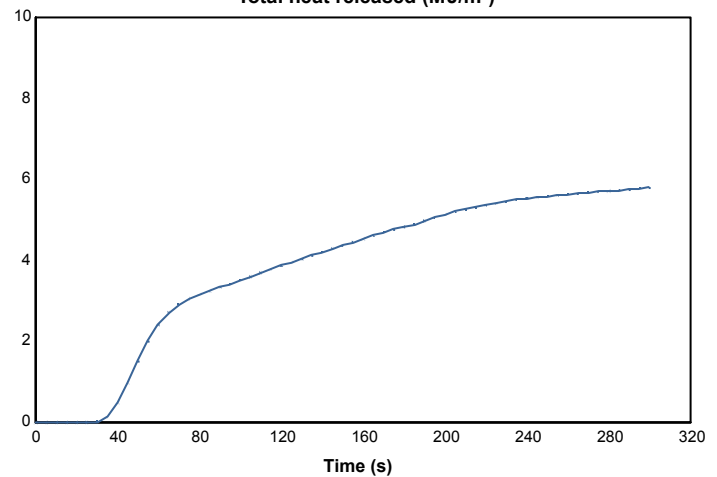
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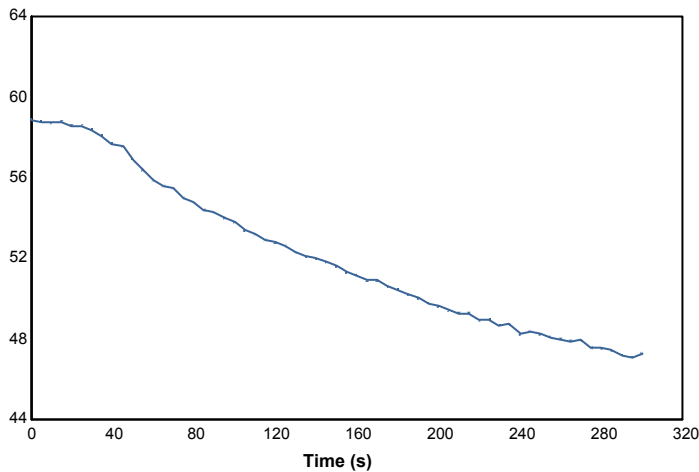
Mass loss rate (g/s)



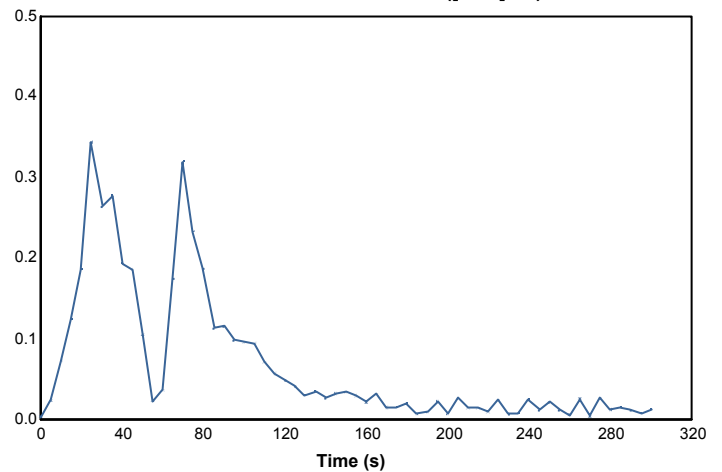
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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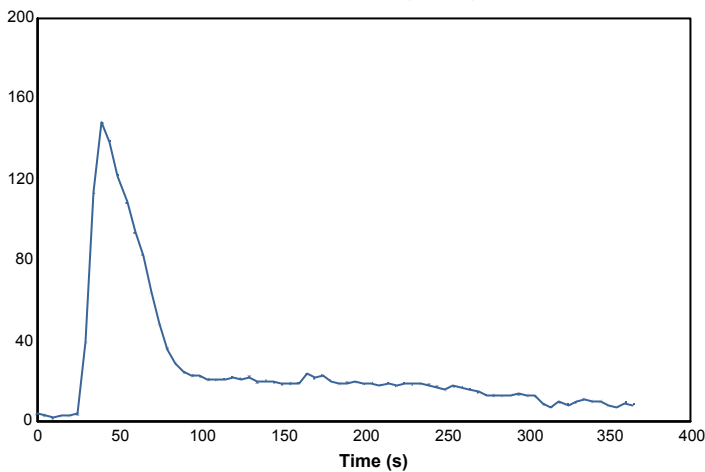
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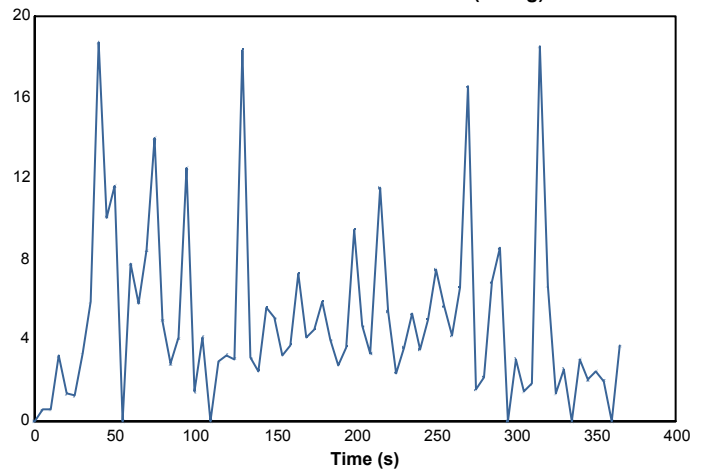
**Replacement of Initial Report dated :02/10/2019**

**Specimen :** 2

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



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



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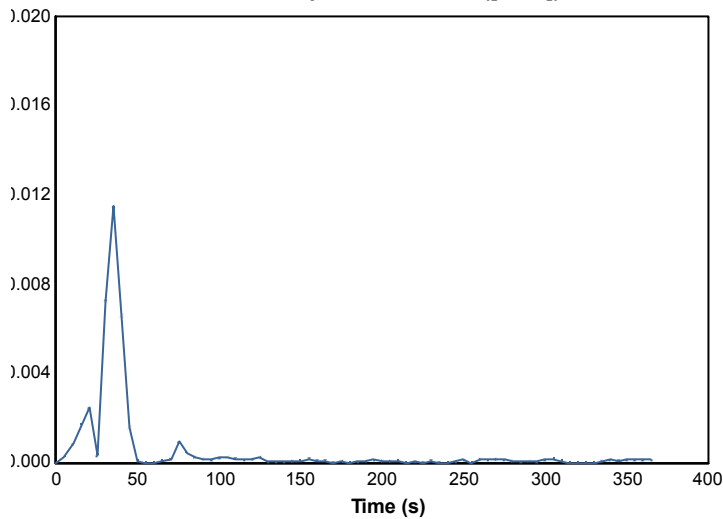
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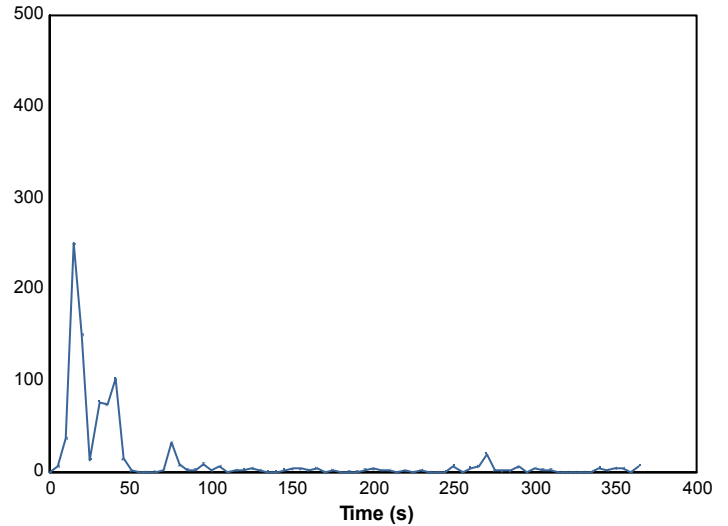
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**Smoke production rate ( $\text{m}^2/\text{s}$ )**



**Specific extinction area ( $\text{m}^2/\text{kg}$ )**



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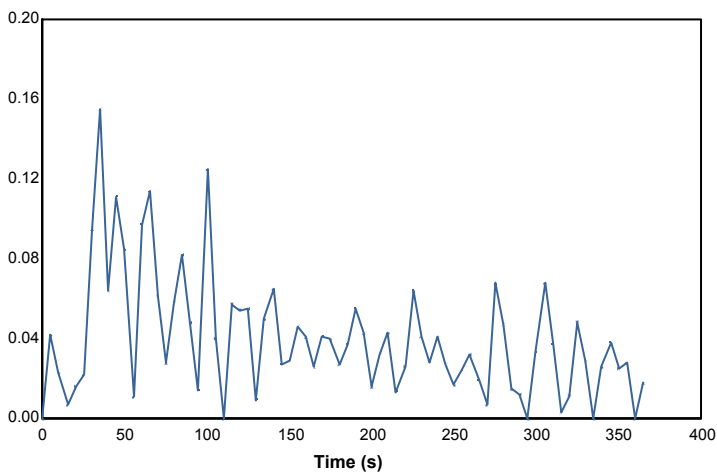
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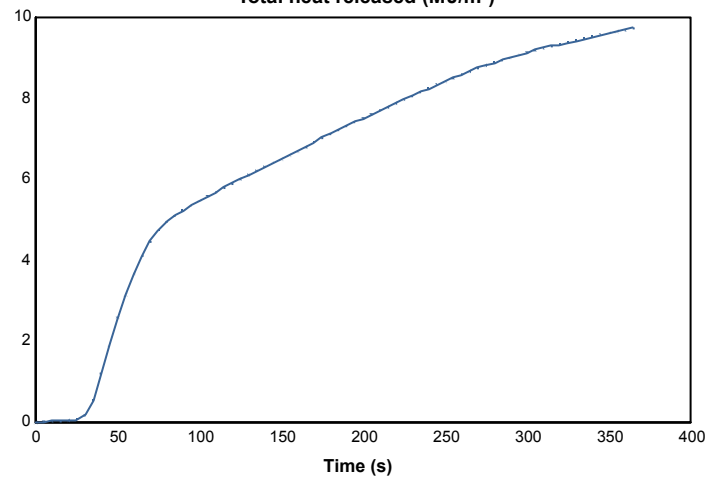
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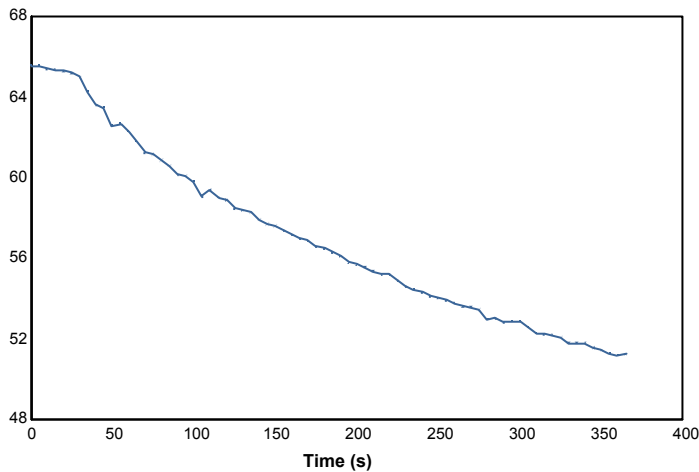
Mass loss rate (g/s)



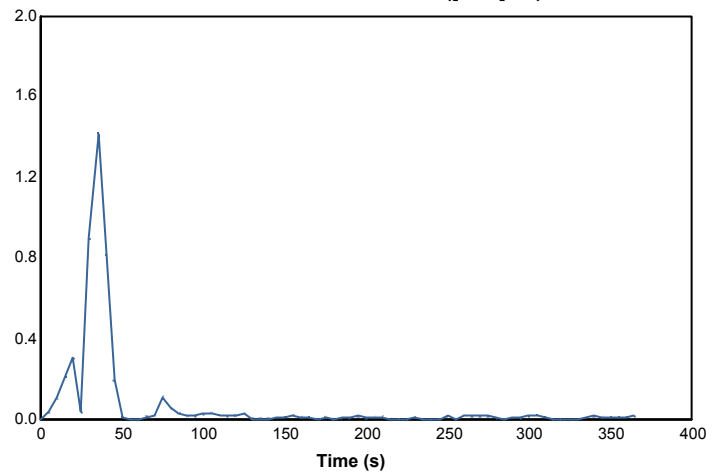
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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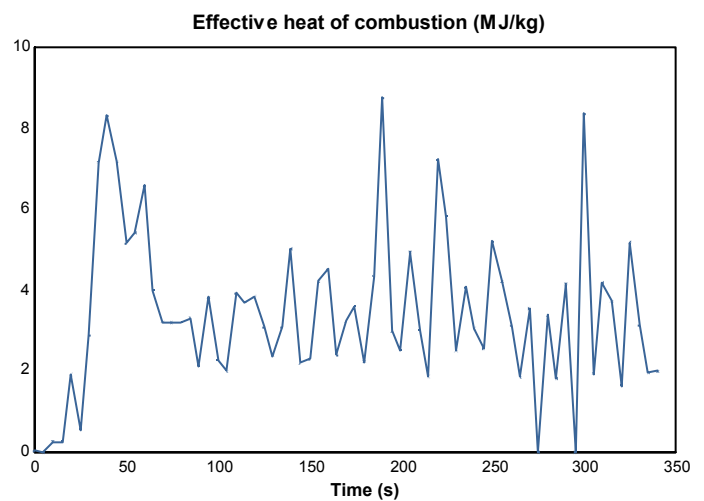
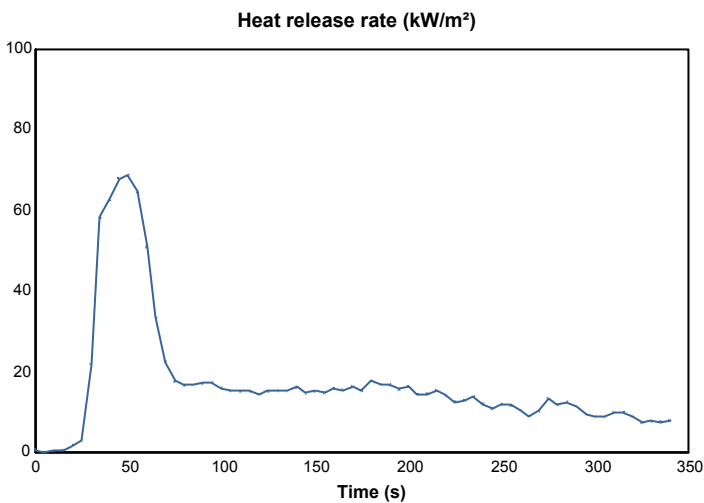
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**Specimen :** 3



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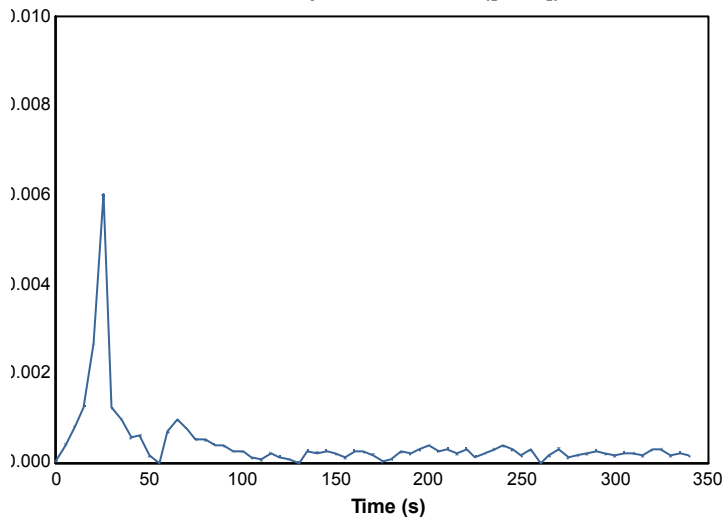
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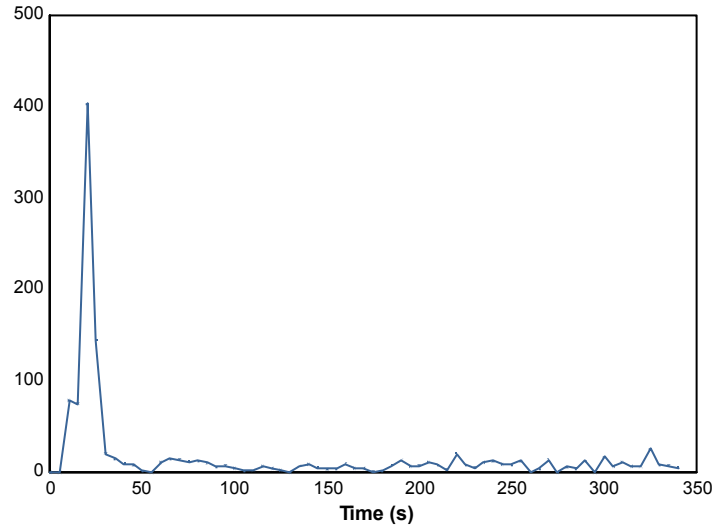
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**Smoke production rate ([m<sup>2</sup>/s])**



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



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

# 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

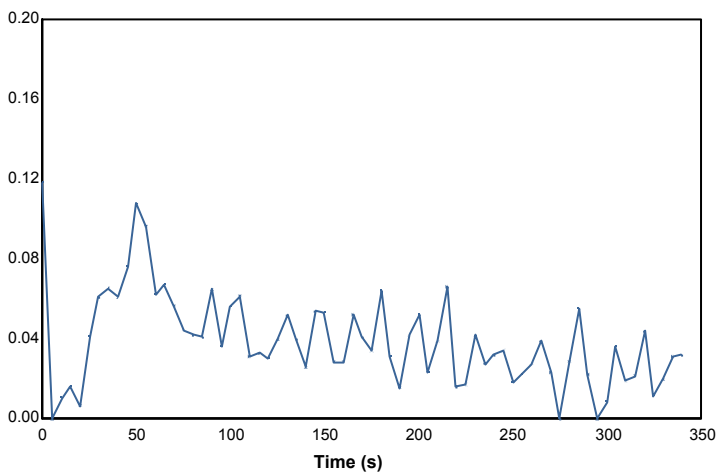
## TEST REPORT

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

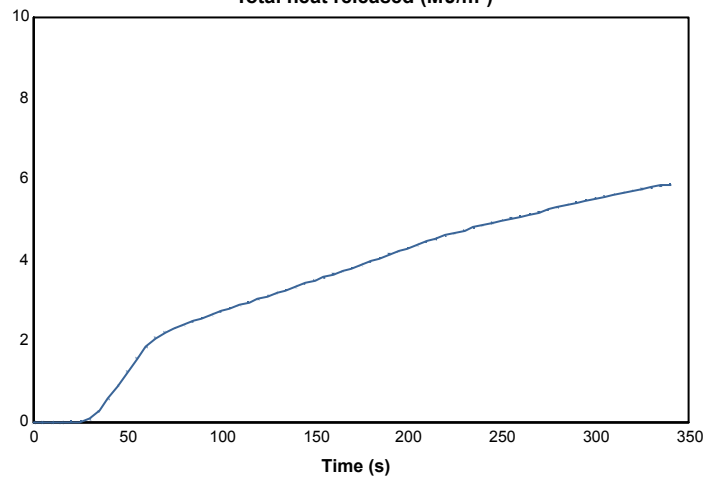
**Test Number :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

**Replacement of Initial Report dated :02/10/2019**

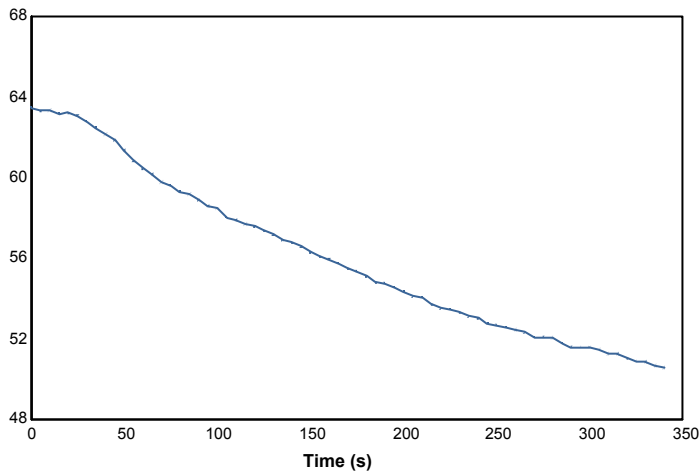
Mass loss rate (g/s)



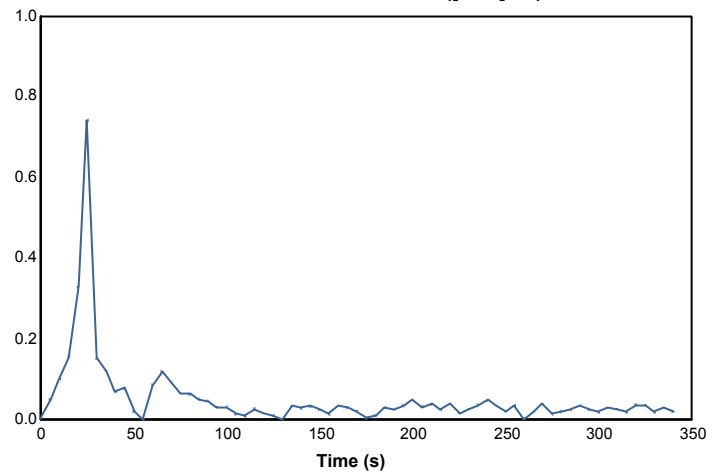
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s]/m<sup>2</sup>)



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## TEST REPORT

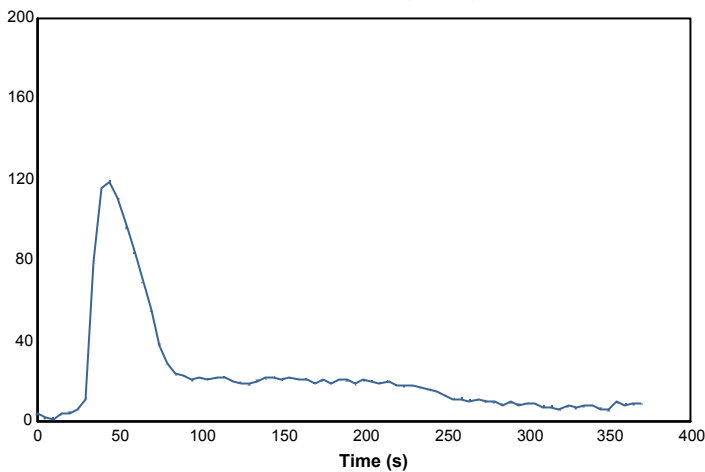
**Client :** Unique Fabrics  
6 Mt Eden Road  
Eden Terrace, Auckland New Zealand  
New Zealand

**Test Number :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

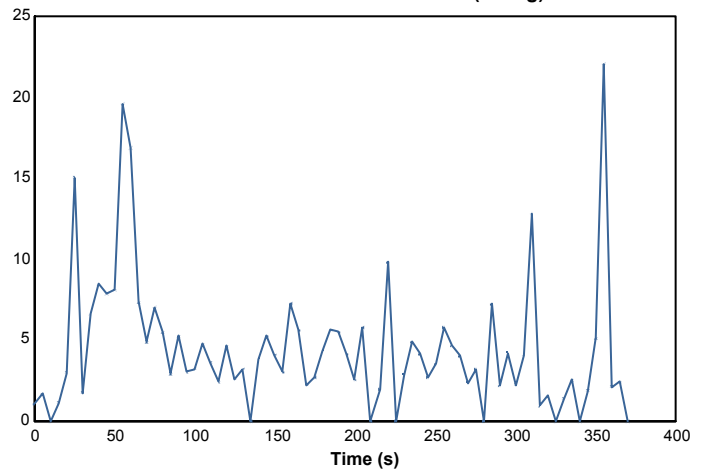
**Replacement of Initial Report dated :02/10/2019**

**Specimen :** 4

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



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



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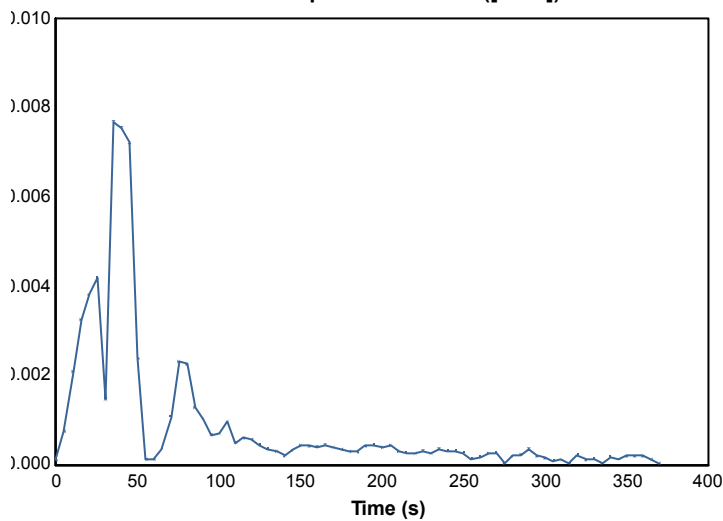
## TEST REPORT

**Client :** Unique Fabrics  
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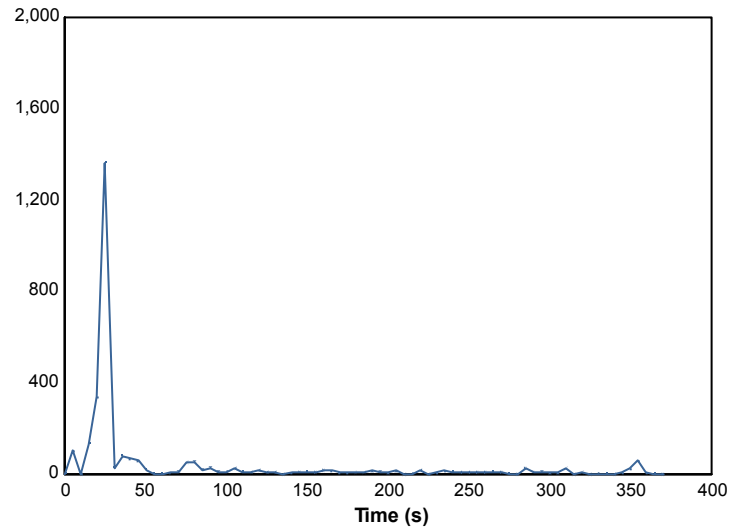
**Test Number :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

**Replacement of Initial Report dated :02/10/2019**

**Smoke production rate ( $\text{m}^2/\text{s}$ )**



**Specific extinction area ( $\text{m}^2/\text{kg}$ )**



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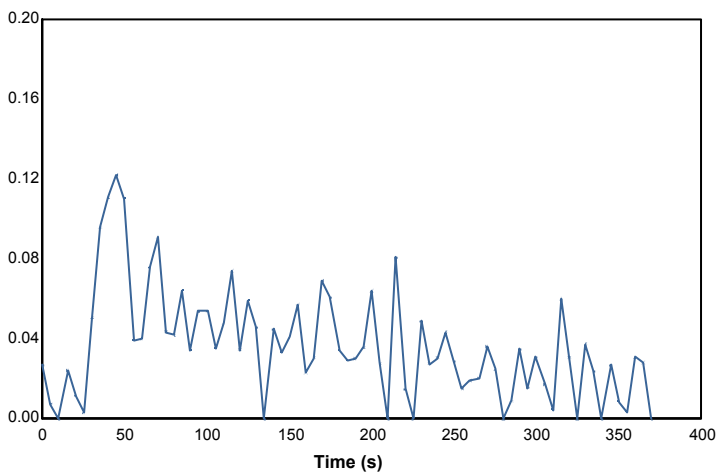
## TEST REPORT

**Client :** Unique Fabrics  
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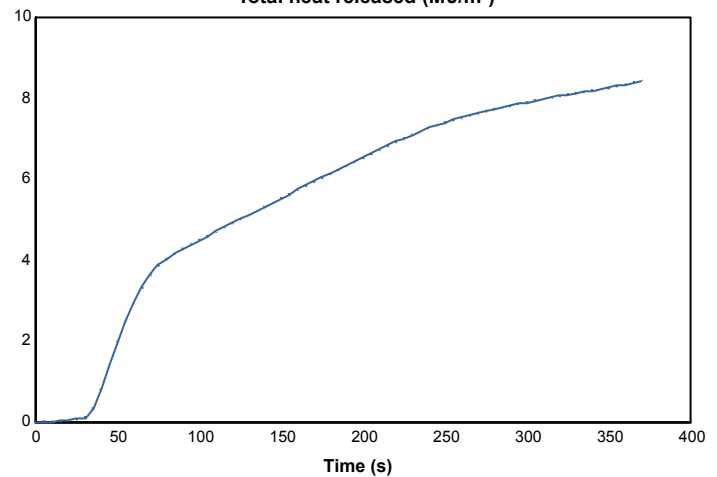
**Test Number :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

**Replacement of Initial Report dated :02/10/2019**

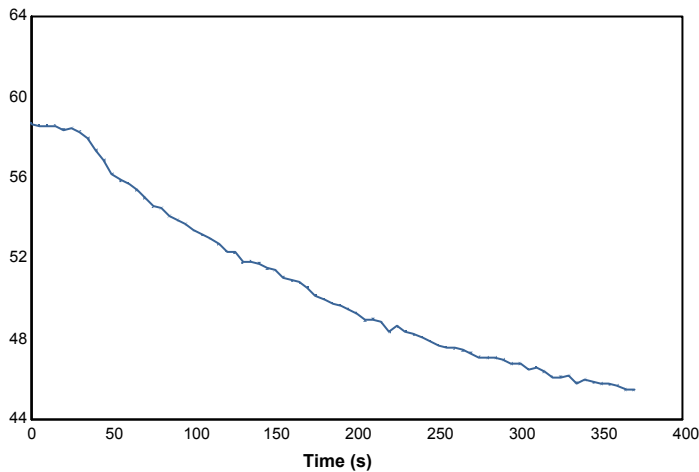
Mass loss rate (g/s)



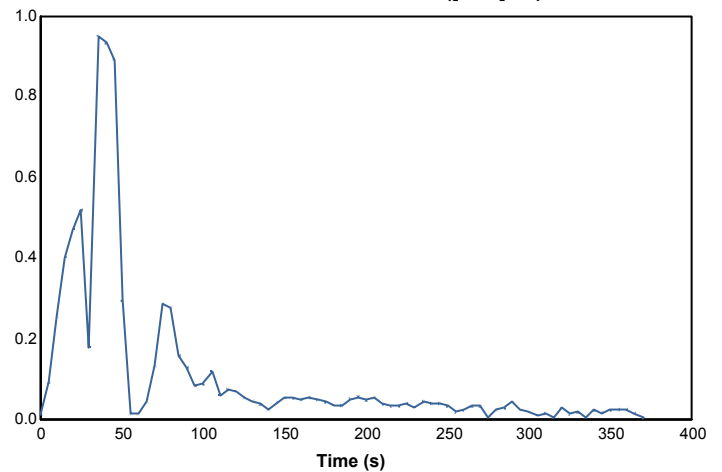
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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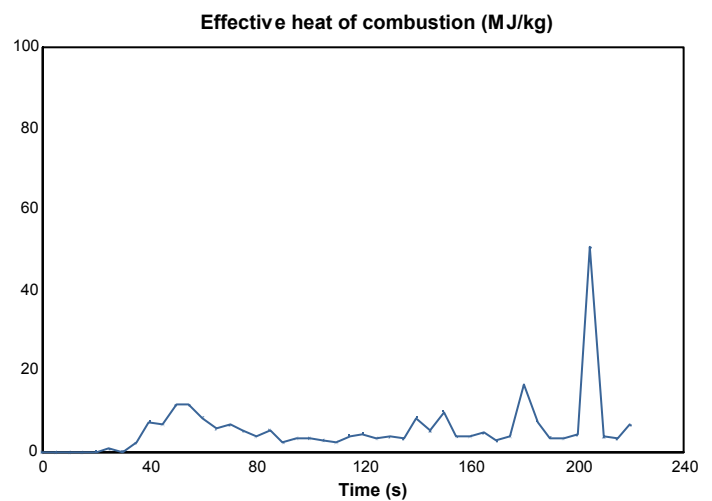
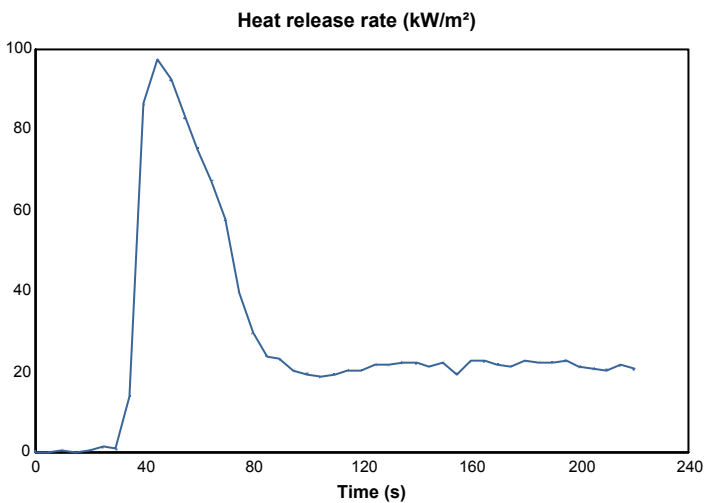
## TEST REPORT

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**Issue Date :** 16/08/2019  
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**Replacement of Initial Report dated :02/10/2019**

**Specimen :** 5



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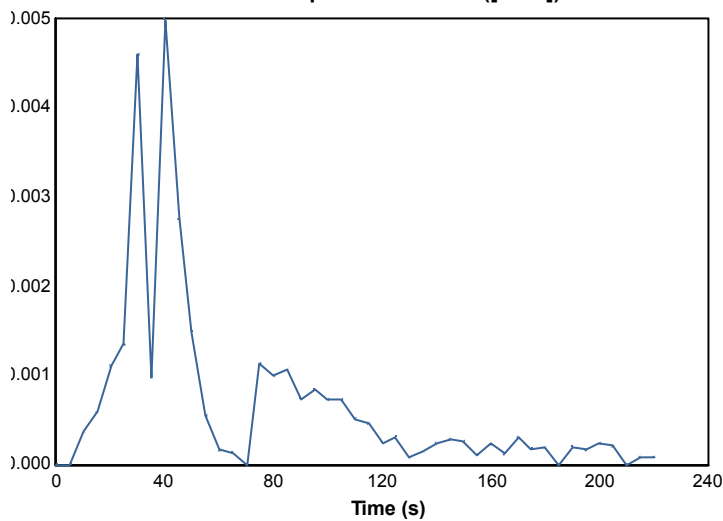
## TEST REPORT

**Client :** Unique Fabrics  
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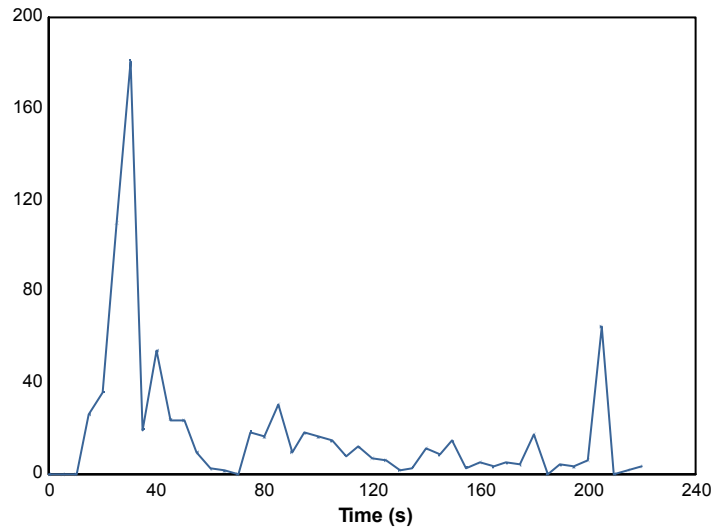
**Test Number :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

**Replacement of Initial Report dated :02/10/2019**

**Smoke production rate ( $m^2/s$ )**



**Specific extinction area ( $m^2/kg$ )**



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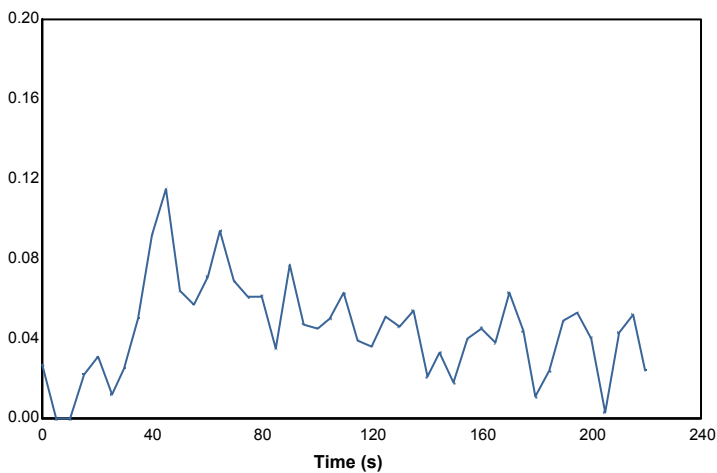
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**Client :** Unique Fabrics  
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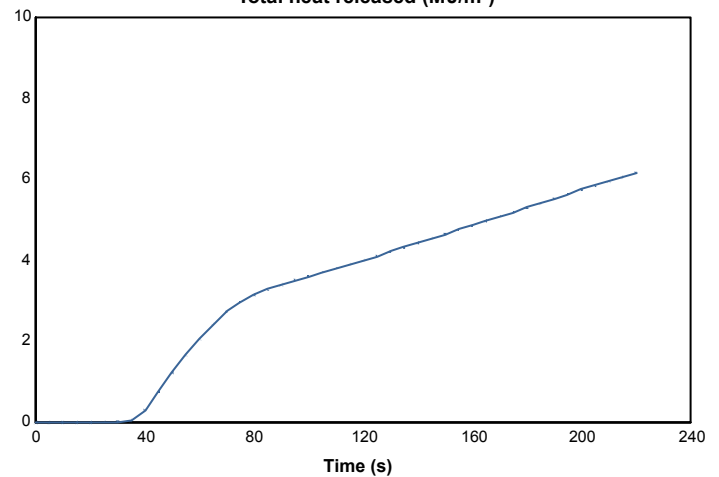
**Test Number :** 19-003295  
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### Replacement of Initial Report dated :02/10/2019

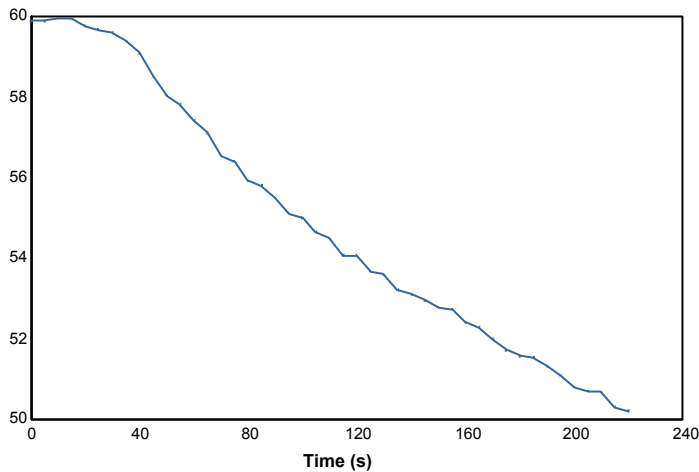
Mass loss rate (g/s)



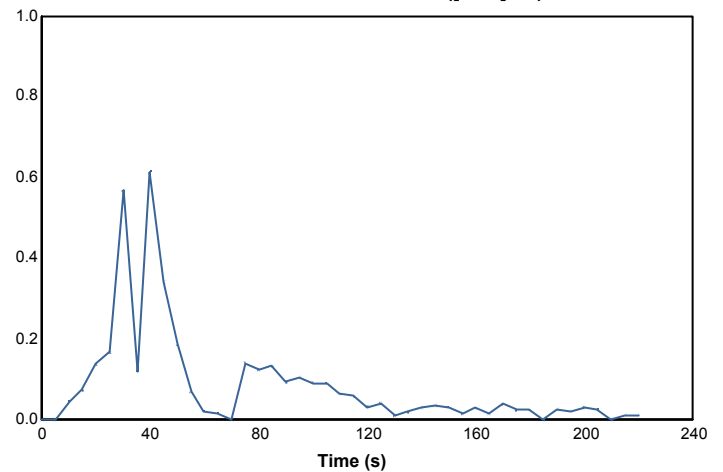
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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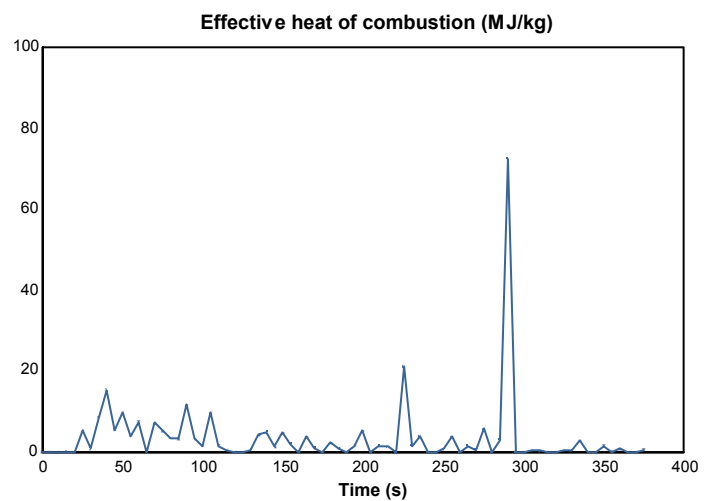
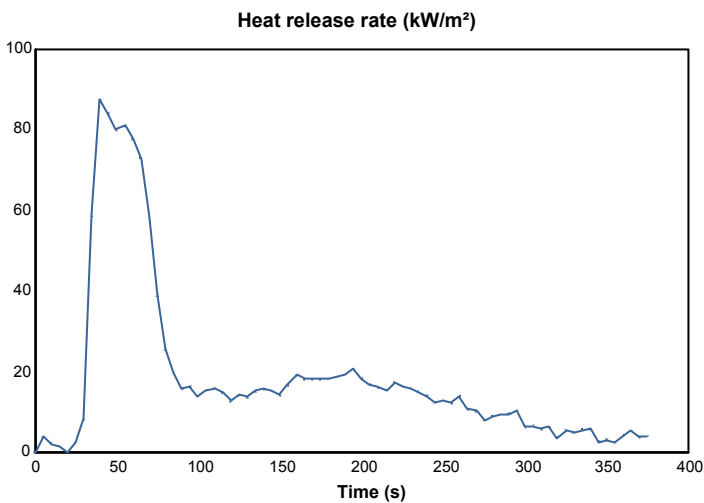
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**Replacement of Initial Report dated :02/10/2019**

**Specimen :** 6



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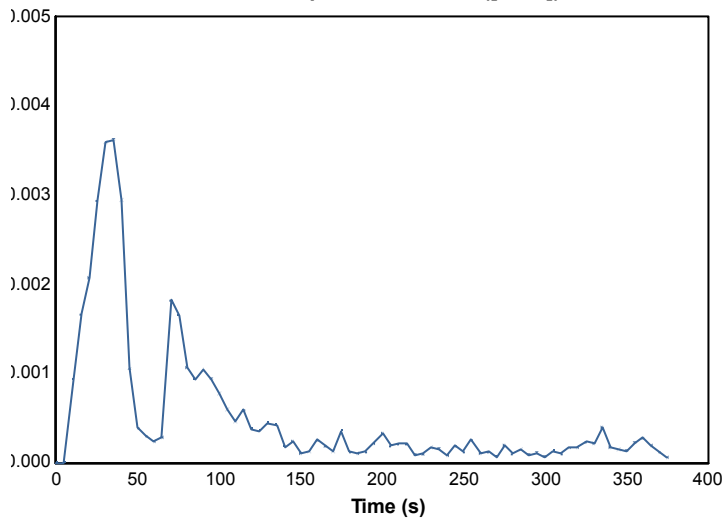
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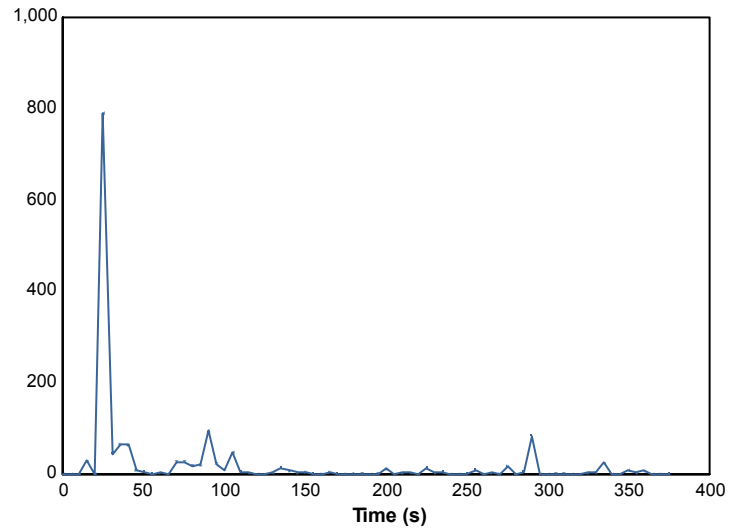
**Test Number :** 19-003295  
**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

**Replacement of Initial Report dated :02/10/2019**

**Smoke production rate ( $\text{m}^2/\text{s}$ )**



**Specific extinction area ( $\text{m}^2/\text{kg}$ )**



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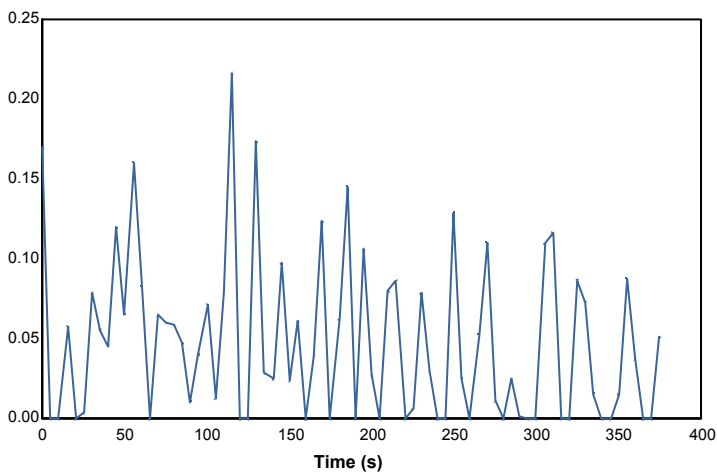
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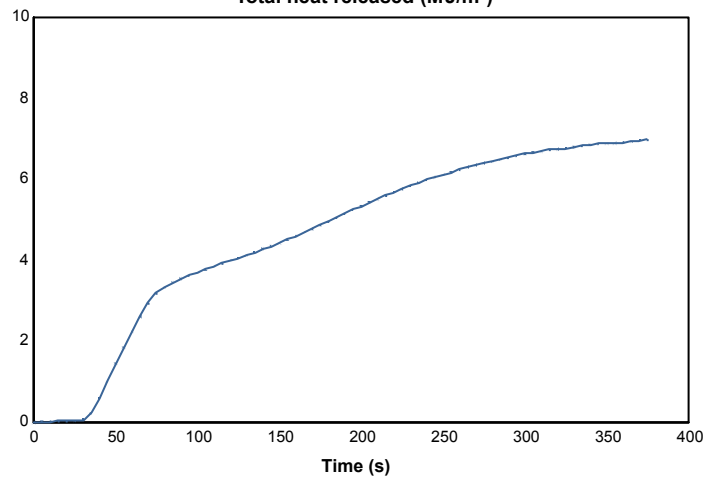
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**Issue Date :** 16/08/2019  
**Print Date :** 13/08/2020

**Replacement of Initial Report dated :02/10/2019**

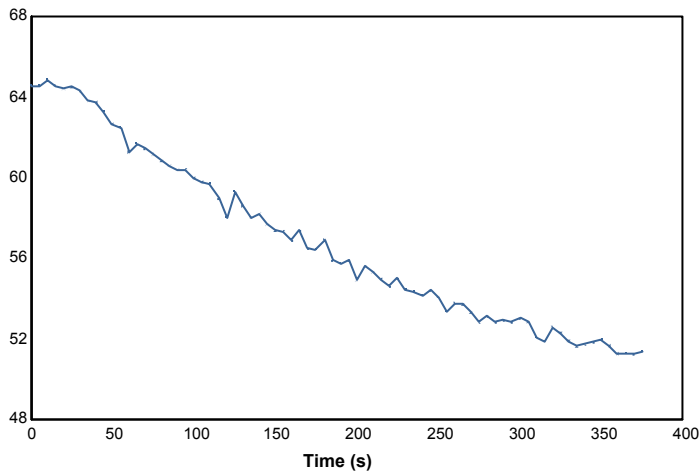
Mass loss rate (g/s)



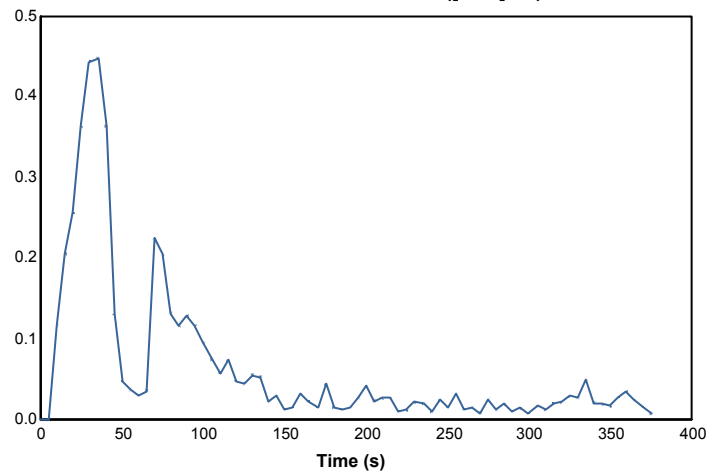
Total heat released (MJ/m²)



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 :** 19-003295  
**Issue Date :** 20/08/2019  
**Print Date :** 13/08/2020

**Sponsor Product** Clients Ref : "Essentials, Wildwalk, Sketch, Essentials / Les Nuances"  
Wallpaper sample  
Colour : Various  
End Use : Wallcovering  
Nominal Composition : Non woven substrate with water based ink and decorative elements  
Nominal Mass per Unit Area/Density : 277g/m<sup>2</sup>  
Nominal Thickness : Approx 0.5mm

Product Group Number Classification : 1

Average Specific Extinction Area : 11.7 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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