

# 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 :** 19-004328  
**Issue Date :** 04/09/2019  
**Print Date :** 2/10/2019

### Sample Description

Clients Ref : "Arte Prisma"

Wallpaper Samples-Wallpaper samples-Ecorse,Galuchat,Grand Moire, Leather Roundels,Mosaic,Mosaic Damask,Oxide Fibres,Sapphire Maze,Stratos, Stratos Classix,Belgian Linen, Sapphire,Aurora,Lenox,Sterling, Zebrino,Aspen, Aztec,Concord, Fuego,Lime, Macau,Orion, Cut Plaid,Stream, Cayenne,Corwall,Stone Rhythm

Colour : Various

End Use : Wall covering

Nominal Composition : PVC on Polyester/Cotton Scrim

### AS/NZS 3837-1998

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

Date Tested 04/09/2019  
Operator AWTA Test Operator 7  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	35.0	35.5	38.0	36.2	kW/m <sup>2</sup>
Average Specific extinction area	87.6	80.1	80.4	82.7	m <sup>2</sup> /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 <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	38	41	34	38	sec
Test duration	270	256	261	262	sec
Peak heat release after ignition	123.3	123.1	137.4	127.9	kW/m <sup>2</sup>
Average heat at 60 s	83.1	82.0	88.7	84.6	kW/m <sup>2</sup>

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

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Average heat at 180 s	39.8	38.9	43.0	40.6	kW/m <sup>2</sup>
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>
Total heat released	8.1	7.6	8.7	8.1	MJ/m <sup>2</sup>
Average effective heat of combustion	5.3	5.4	5.9	5.5	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	69.3	69.1	68.3	68.9	g
Mass at sustained flaming	68.2	68.1	67.8	68.0	g
Mass remaining	56.5	57.4	56.1	56.6	g
Mass percentage pyrolysed	18.5	17.0	17.9	17.8	%
Mass loss	1.6	1.4	1.5	1.5	kg/m <sup>2</sup>
Average rate of mass loss	6.8	6.6	6.5	6.6	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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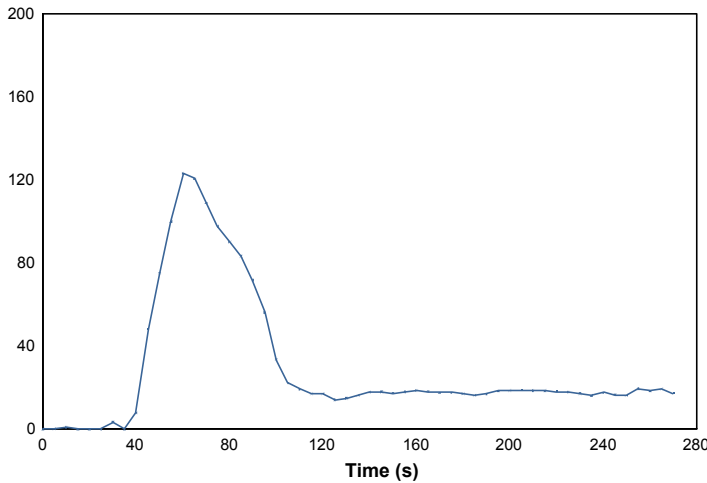
## TEST REPORT

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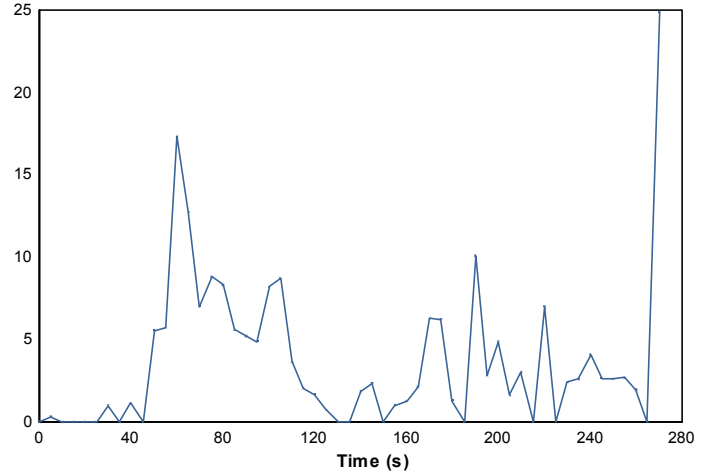
**Test Number :** 19-004328  
**Issue Date :** 04/09/2019  
**Print Date :** 2/10/2019

**Specimen :** 1

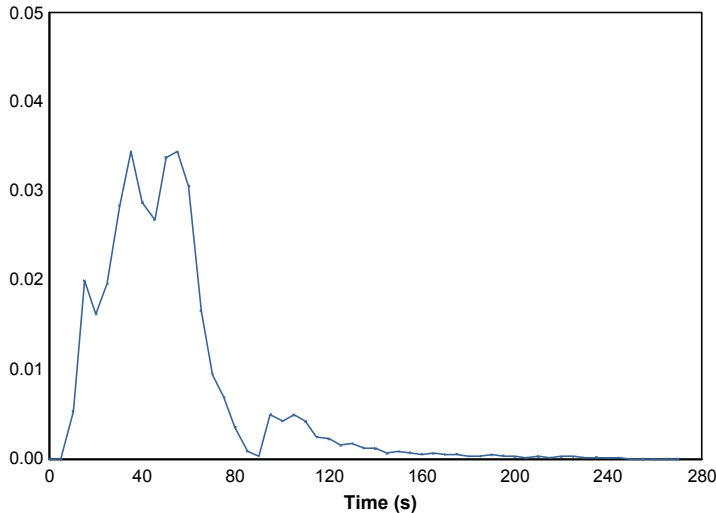
**Heat release rate (kW/m<sup>2</sup>)**



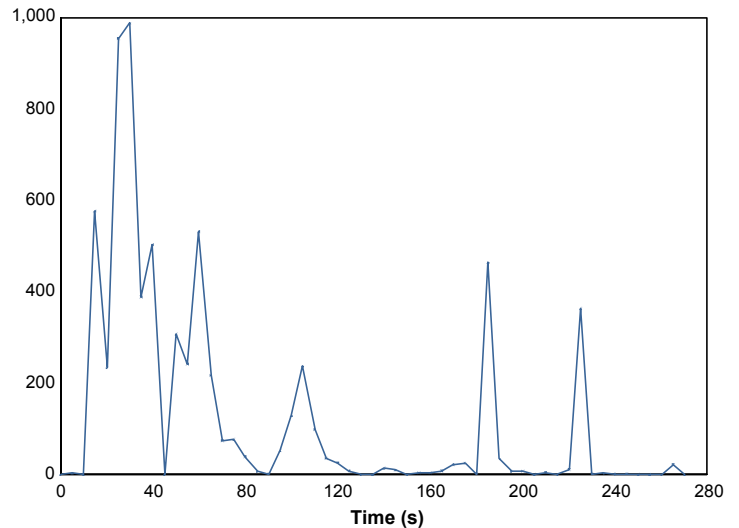
**Effective heat of combustion (MJ/kg)**



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



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



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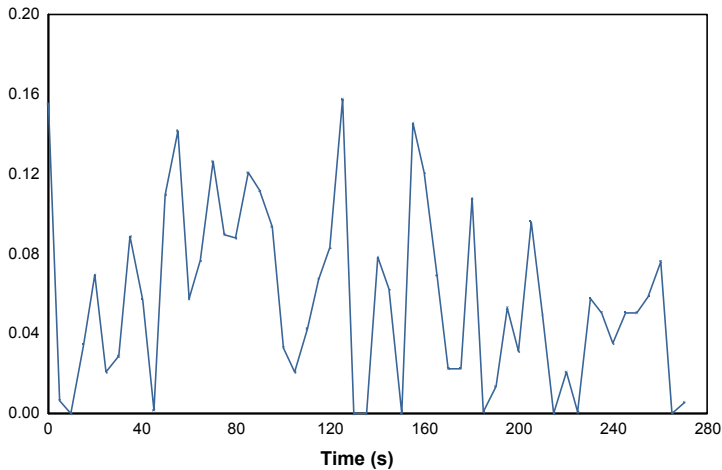
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
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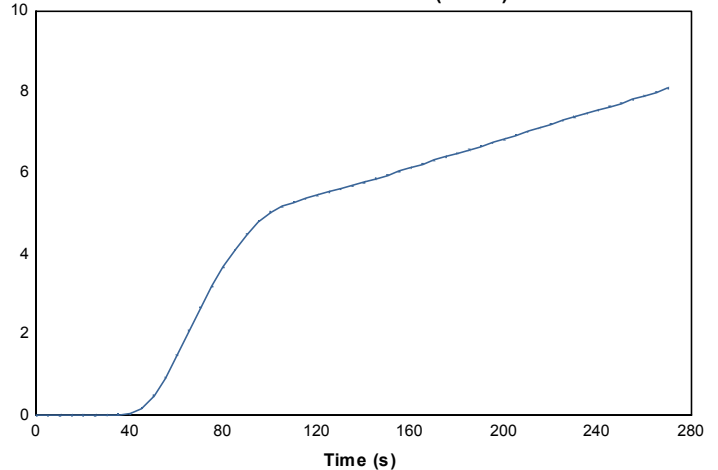
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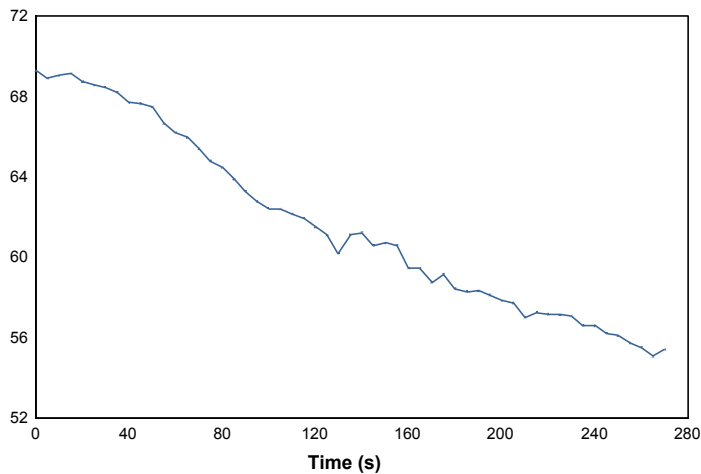
Mass loss rate (g/s)



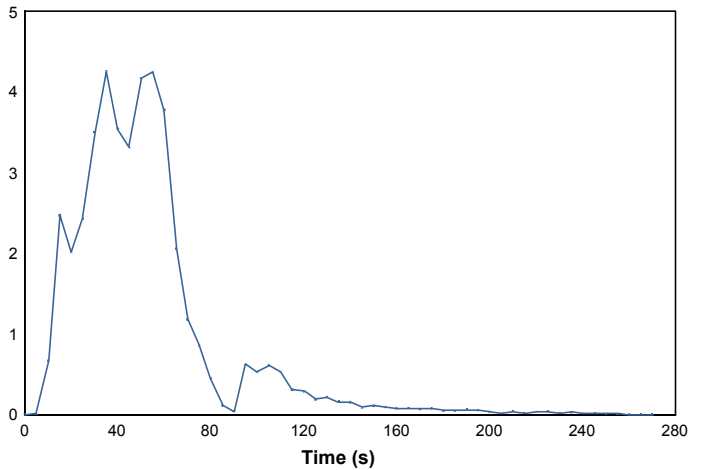
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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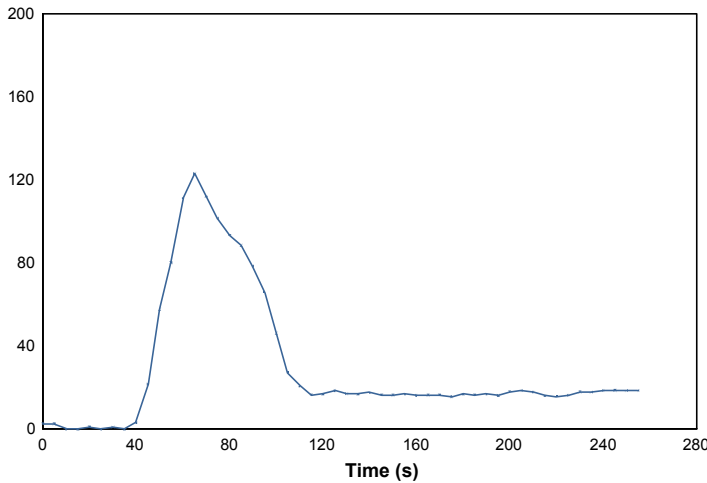
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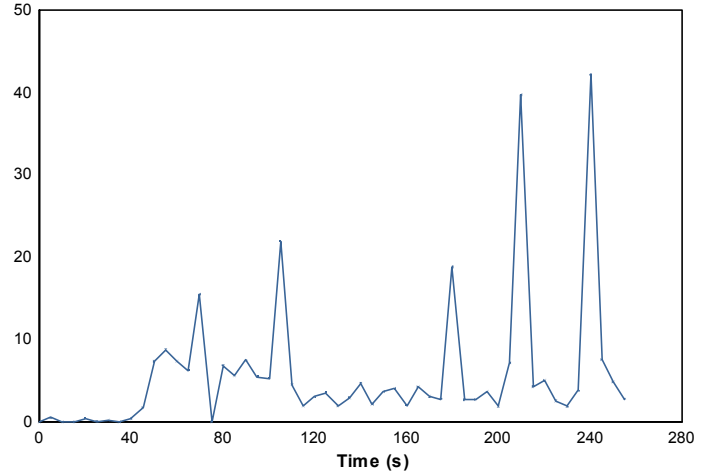
**Test Number :** 19-004328  
**Issue Date :** 04/09/2019  
**Print Date :** 2/10/2019

**Specimen :** 2

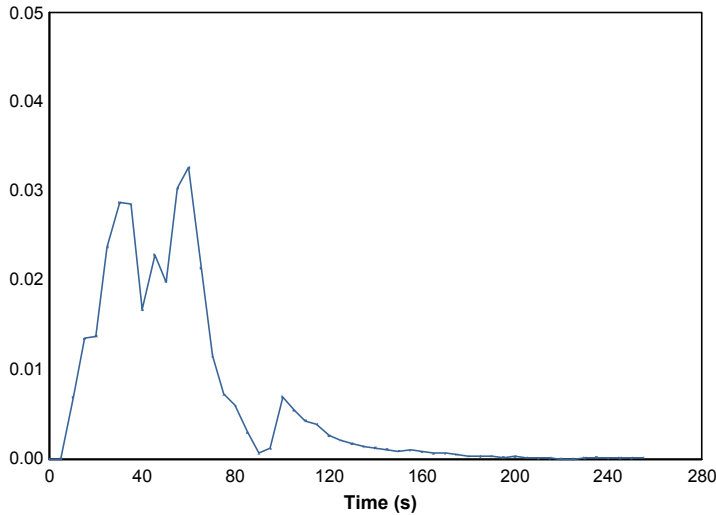
**Heat release rate (kW/m<sup>2</sup>)**



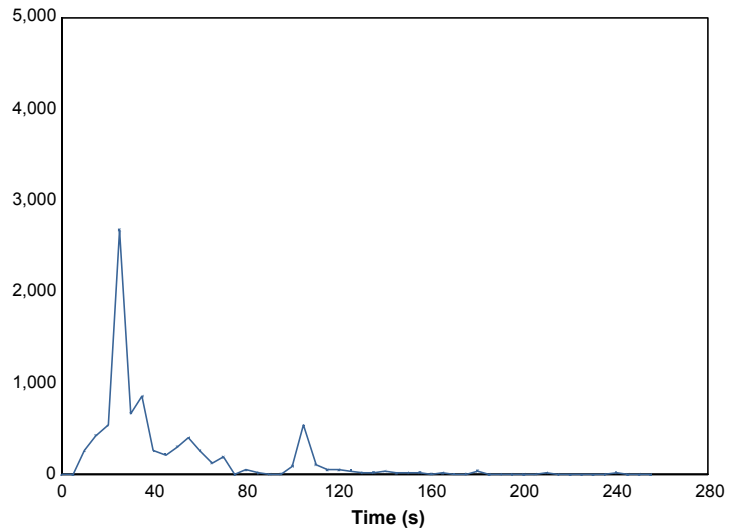
**Effective heat of combustion (MJ/kg)**



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



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



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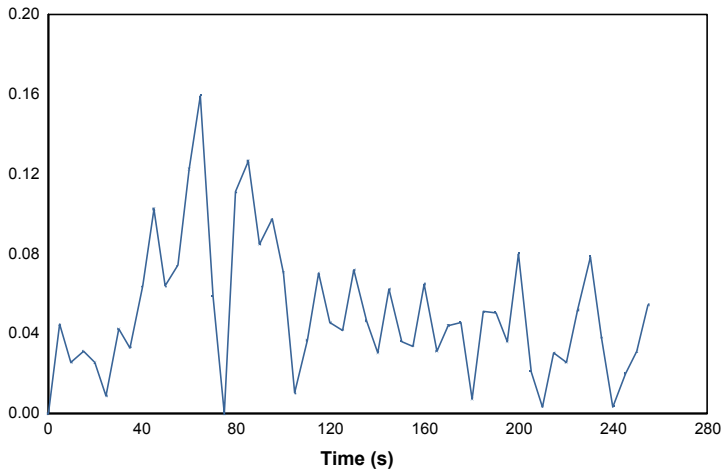
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
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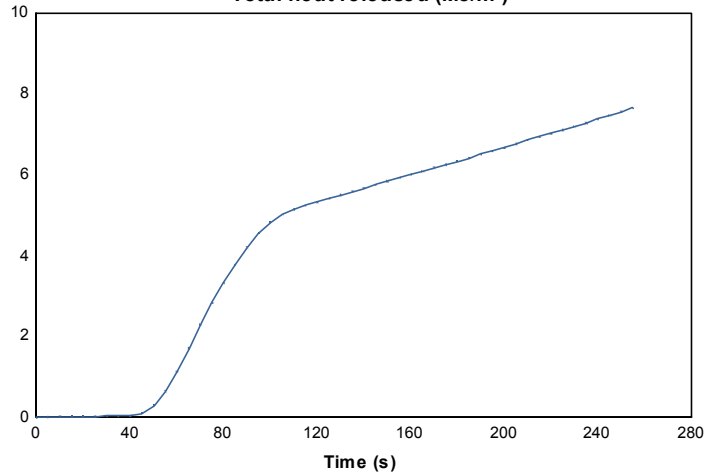
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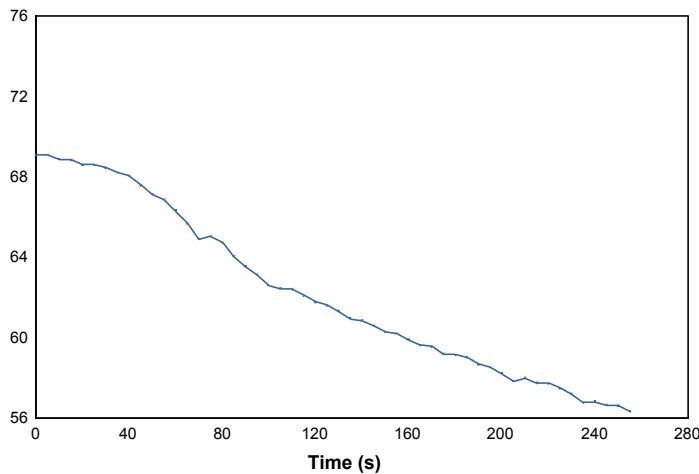
Mass loss rate (g/s)



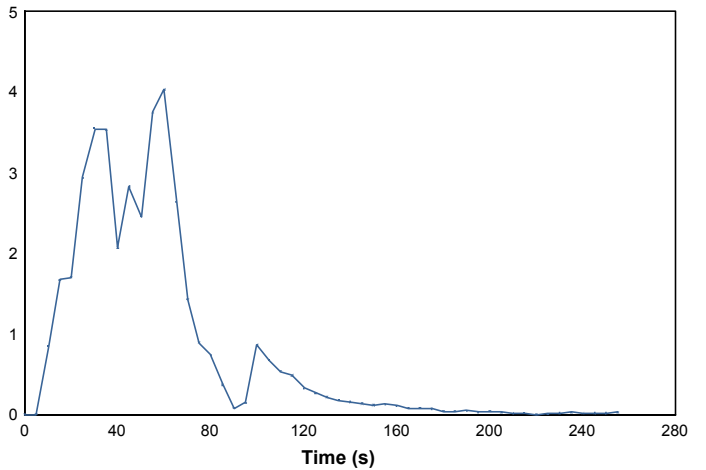
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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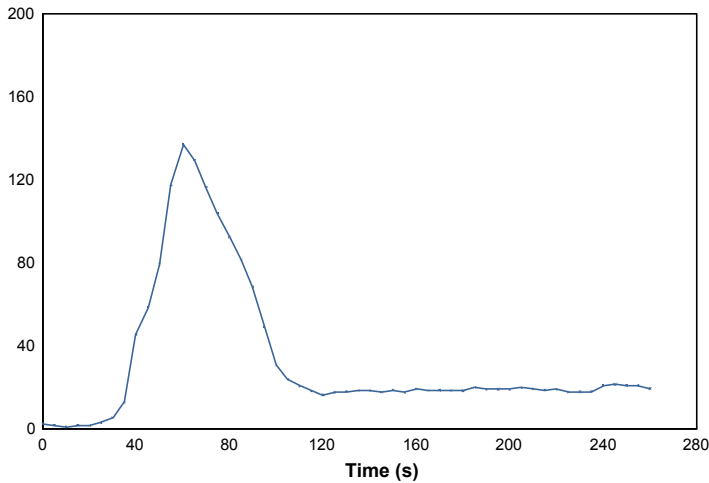
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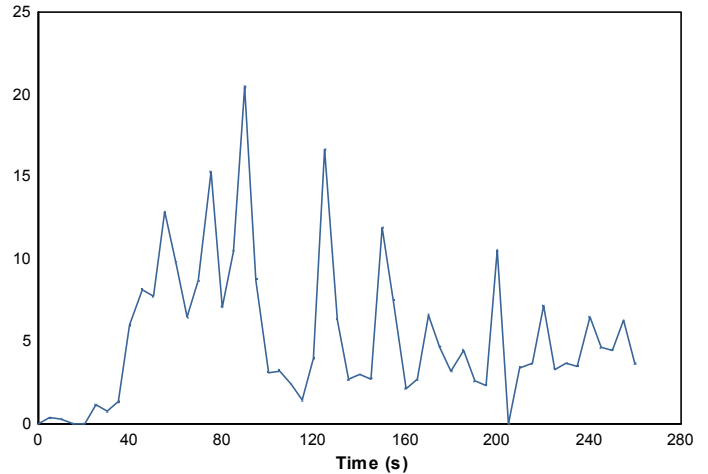
**Test Number :** 19-004328  
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**Print Date :** 2/10/2019

**Specimen :** 3

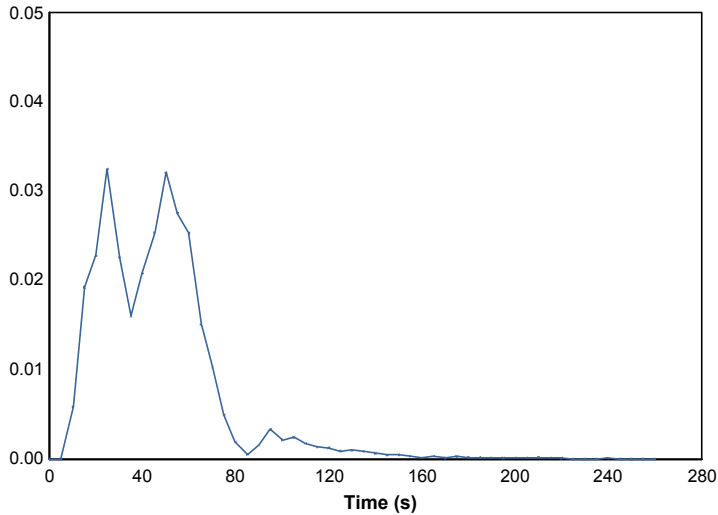
**Heat release rate (kW/m<sup>2</sup>)**



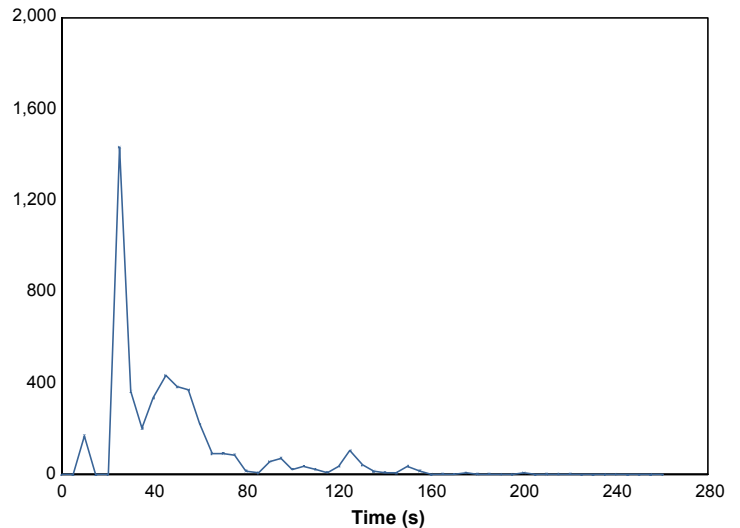
**Effective heat of combustion (MJ/kg)**



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



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



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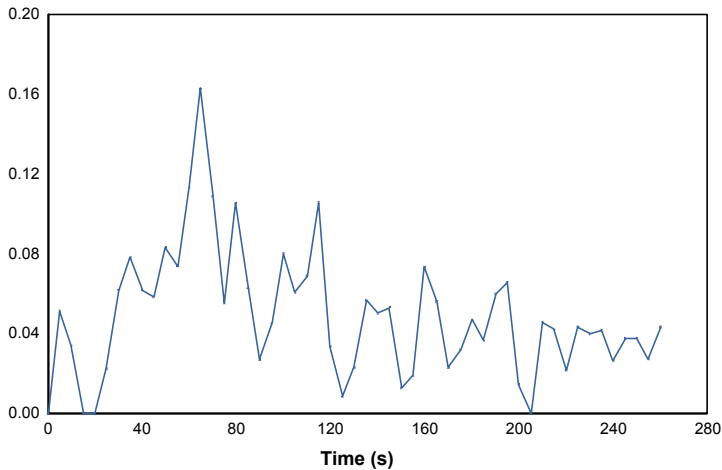
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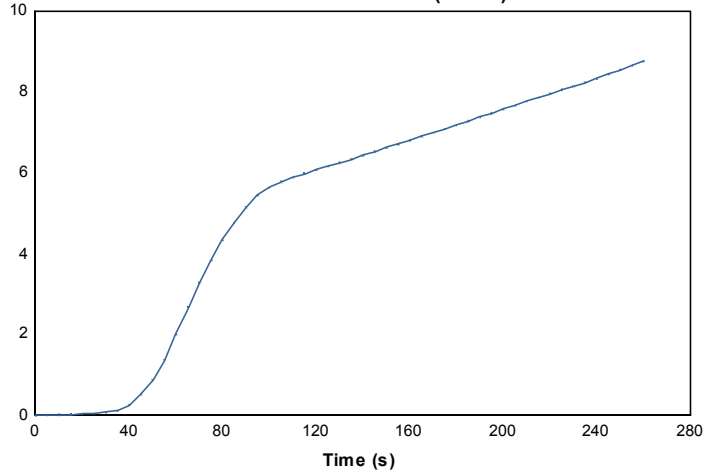
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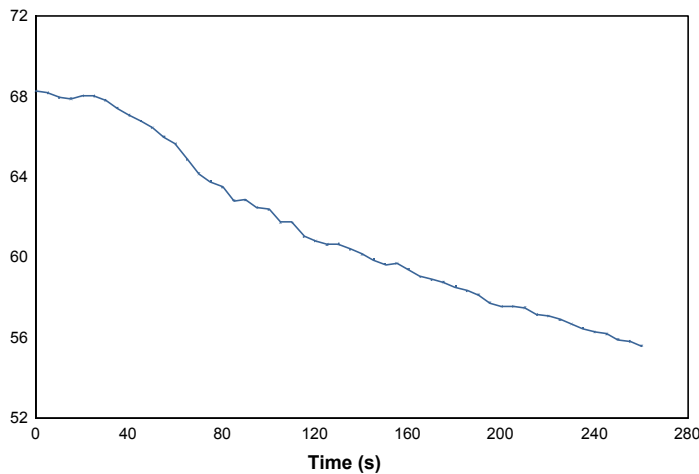
Mass loss rate (g/s)



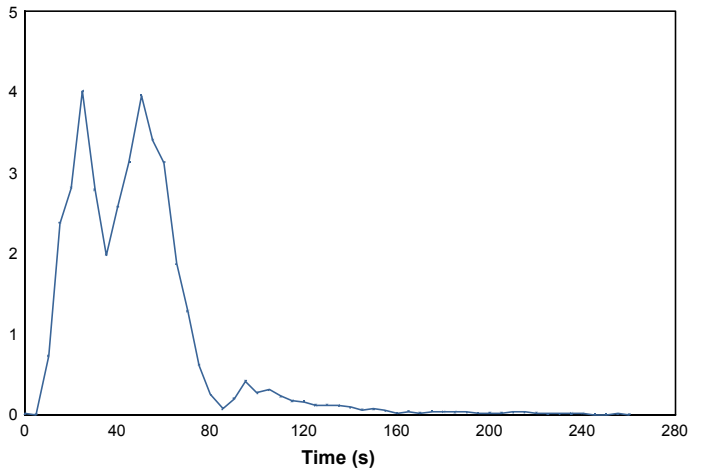
Total heat released (MJ/m²)



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

**Test Number :** 19-004328  
**Issue Date :** 4/09/2019  
**Print Date :** 2/10/2019

### Sponsor Product

Clients Ref : "Arte Prisma"  
Wallpaper Samples-Wallpaper samples-Ecorse,Galuchat,Grand Moire, Leather Roundels,Mosaic,Mosaic Damask,Oxide Fibres,Sapphire Maze,Stratos, Stratos Classix,Belgian Linen, Sapphire,Aurora,Lenox,Sterling, Zebrino,Aspen, Aztec,Concord, Fuego,Lime, Macau,Orion, Cut Plaid,Stream, Cayenne,Corwall,Stone Rhythm  
Colour : Various  
End Use : Wall covering  
Nominal Composition : PVC on Polyester/Cotton Scrim

Product Group Number Classification : 1  
Average Specific Extinction Area : 82.7 m<sup>2</sup>/kg



Chris Campbell  
Client Relations Manager

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