

# 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 :** 19-004990  
**Issue Date :** 11/09/2019  
**Print Date :** 2/10/2019

**Sample Description** Clients Ref : "Arte Prisma Arctic Shades, Dunes, Micron , Neon, Sento Silx"  
Wallpaper Samples  
Colour : Various  
End Use : Wall Covering  
Nominal Composition : PVC Acrylic Top Layer with Non-Woven Backing  
Nominal Mass per Unit Area/Density : 339g/m<sup>2</sup>  
Nominal Thickness : Approx: 1mm

### ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 11/09/2019  
Operator AWTA Test Operator 7  
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	10.8	11.4	10.3	10.8	kW/m <sup>2</sup>
Average Specific extinction area	40.7	36.9	27.4	35.0	m <sup>2</sup> /kg

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	25	30	24	26	sec
Test duration	1825	1830	1824	1826	sec
Peak heat release after ignition	100.6	98.8	109.0	102.8	kW/m <sup>2</sup>
Average heat at 180 s	35.7	38.2	36.4	36.7	kW/m <sup>2</sup>
Average heat at 300 s	29.2	30.7	27.8	29.2	kW/m <sup>2</sup>

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

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Total heat released	19.4	20.6	18.5	19.5	MJ/m <sup>2</sup>
Average effective heat of combustion	8.2	8.8	7.9	8.3	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	68.4	68.3	68.7	68.5	g
Mass at sustained flaming	68.0	67.7	68.3	68.0	g
Mass remaining	49.3	49.4	49.5	49.4	g
Mass loss	2363.5	2336.8	2372.0	2357.4	g/m <sup>2</sup>
Average rate of mass loss	1.3	1.3	1.3	1.3	g/m <sup>2</sup> .s
Total smoke Production (Non Flaming phase)	30.5	49.0	18.0	32.5	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	114.8	98.5	117.5	110.3	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	145.3	147.5	135.5	142.8	m <sup>2</sup> /m <sup>2</sup>
Specimen Surface area	0.00810	0.00810	0.00810	-	m <sup>2</sup>
C-Factor (Calibration Constant)	0.040256	0.040256	0.040256	-	
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.

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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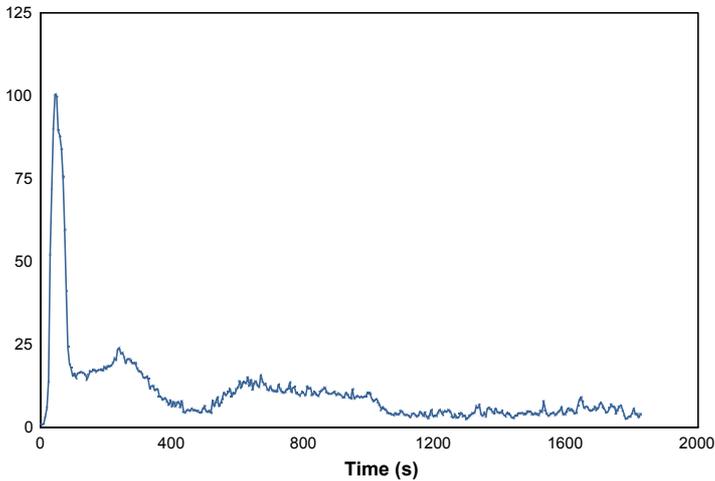
## TEST REPORT

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6 Mt Eden Road  
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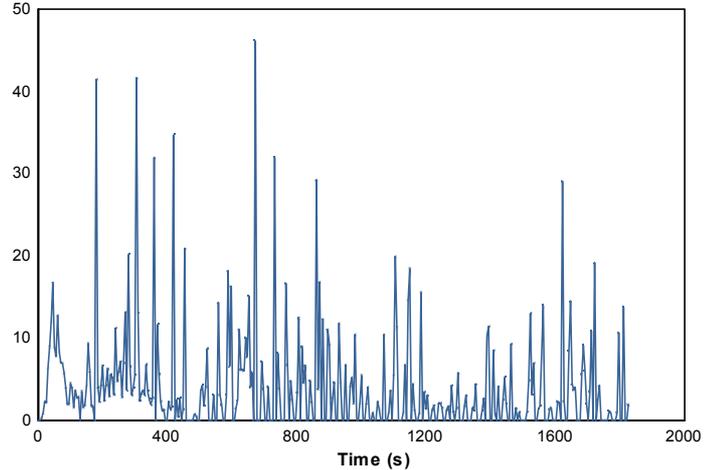
**Test Number :** 19-004990  
**Issue Date :** 11/09/2019  
**Print Date :** 2/10/2019

**Specimen :** 1

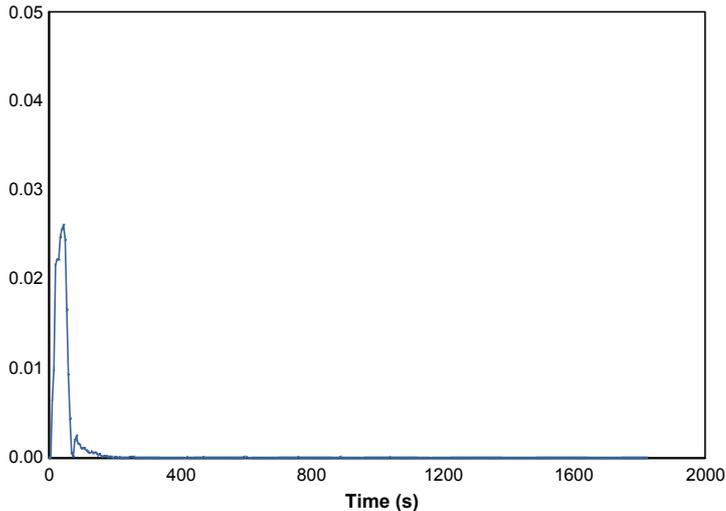
**Heat release rate (kW/m<sup>2</sup>)**



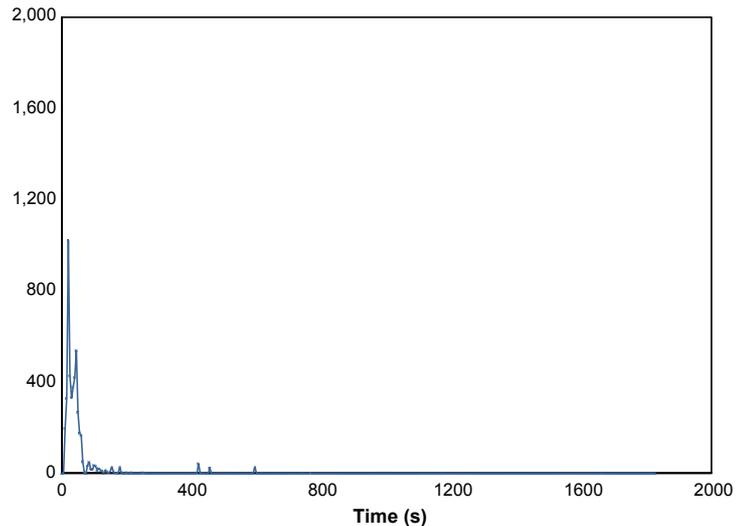
**Effective heat of combustion (MJ/kg)**



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



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



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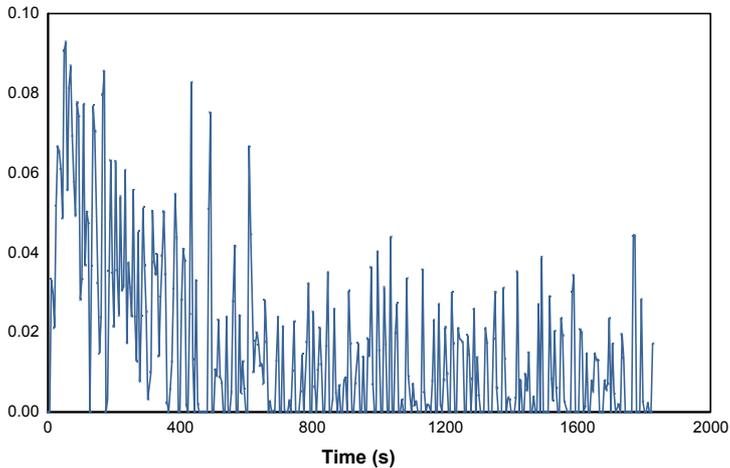
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
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## TEST REPORT

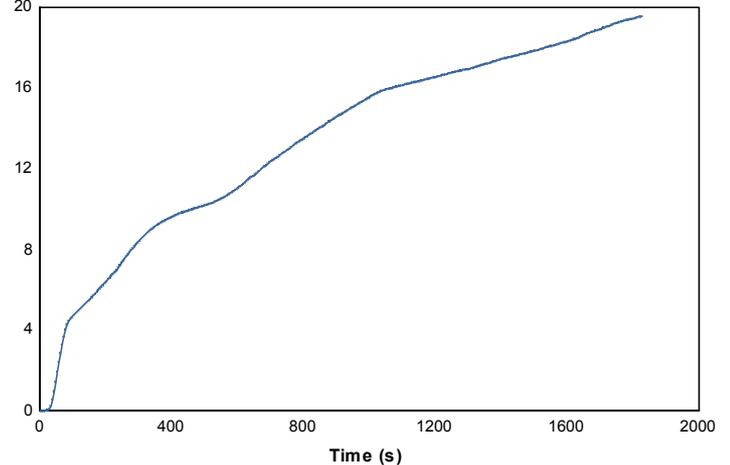
**Client :** Unique Fabrics  
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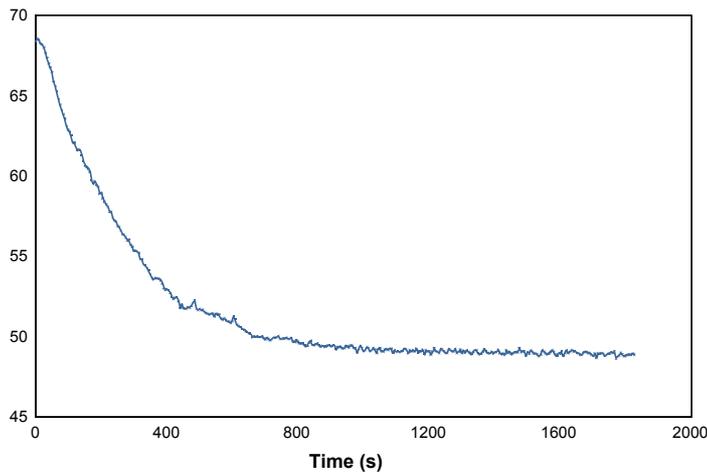
Mass loss rate (g/s)



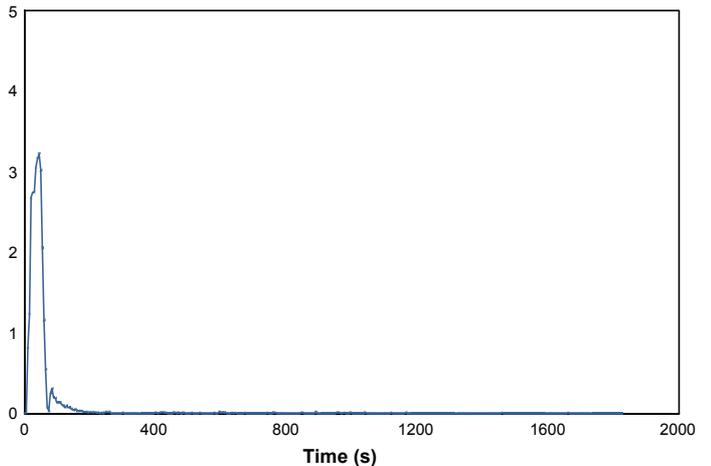
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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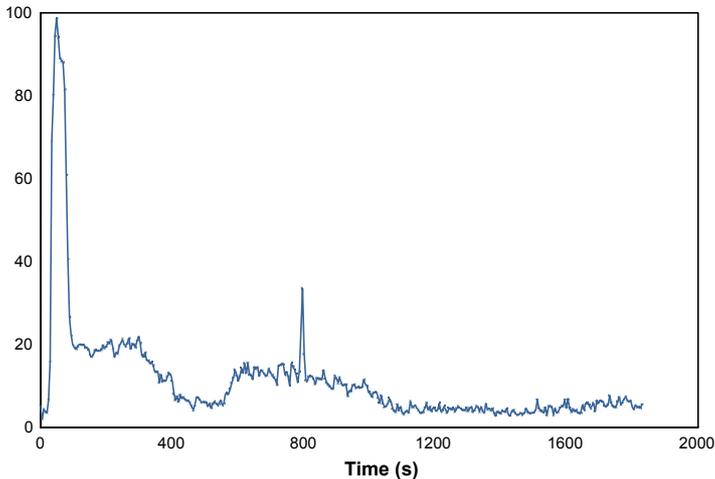
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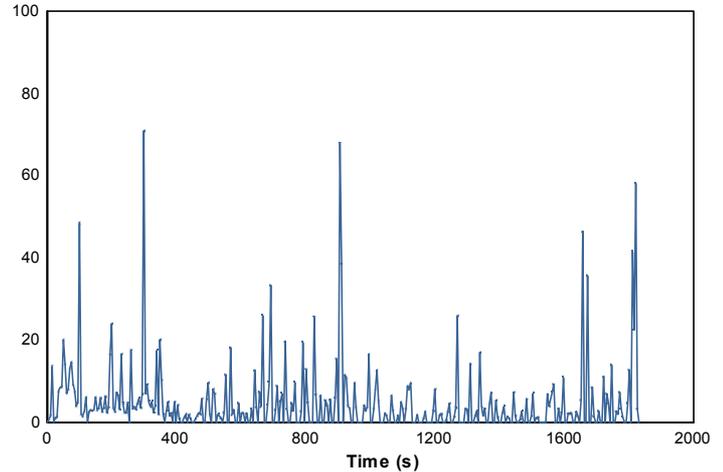
**Test Number :** 19-004990  
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**Print Date :** 2/10/2019

**Specimen :** 2

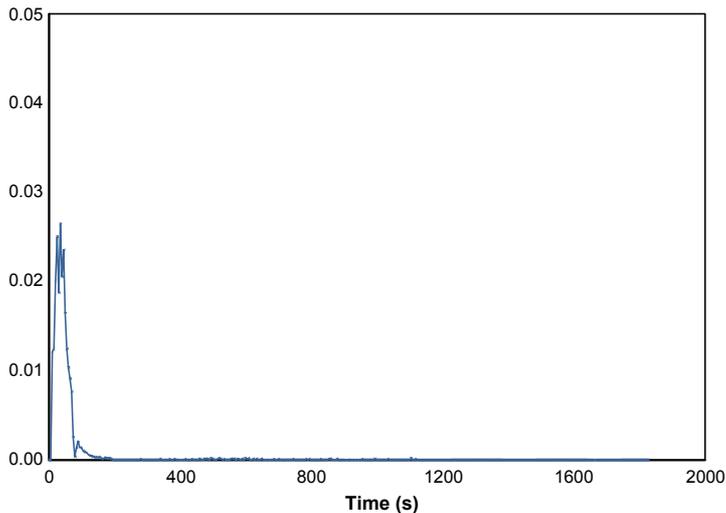
Heat release rate (kW/m<sup>2</sup>)



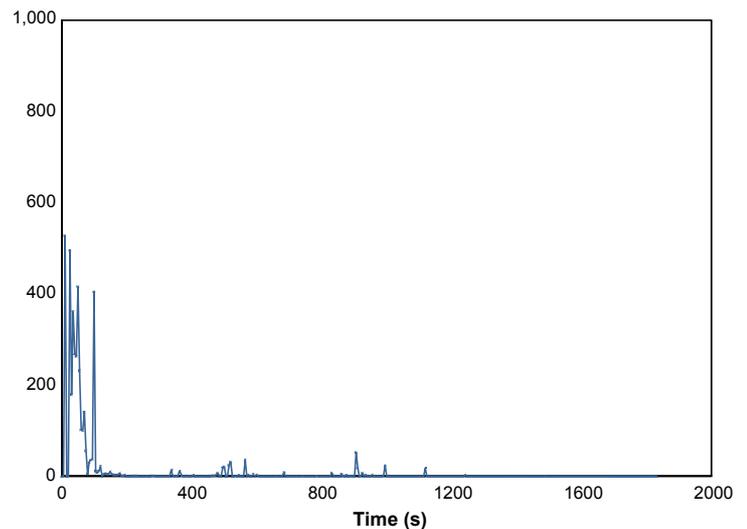
Effective heat of combustion (MJ/kg)



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



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



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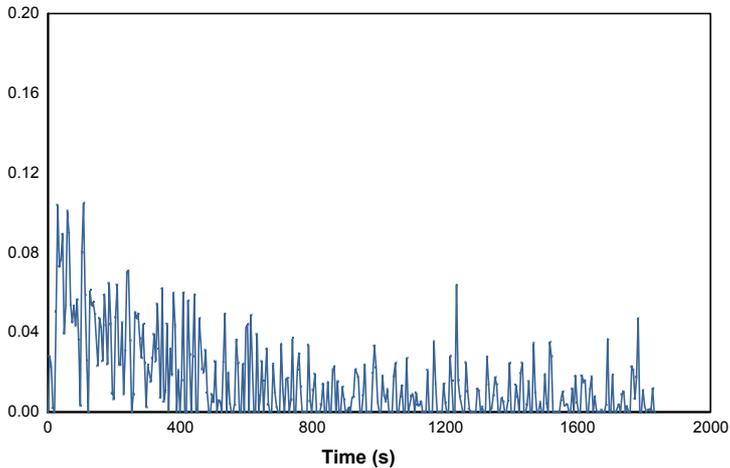
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
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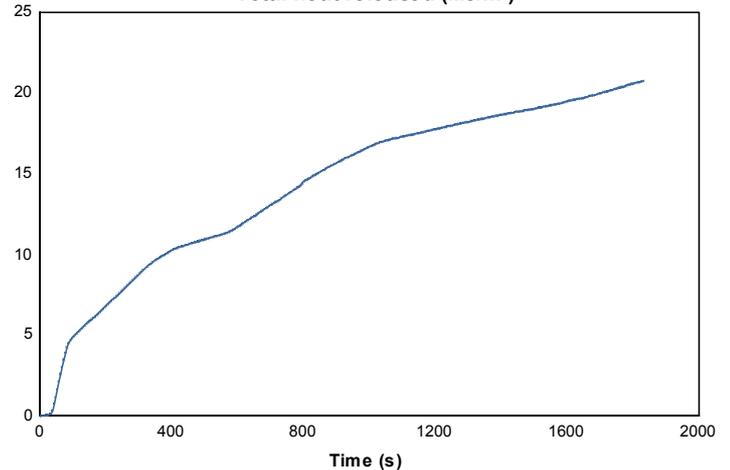
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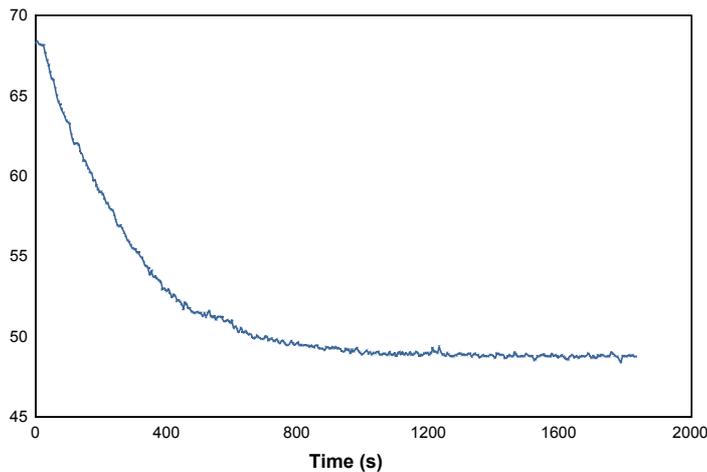
Mass loss rate (g/s)



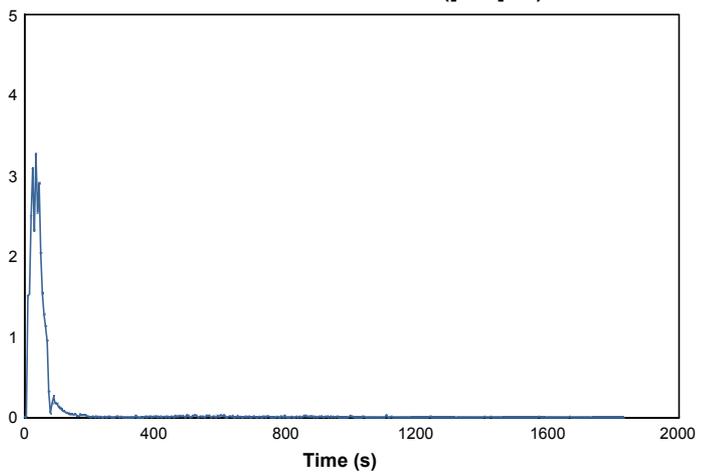
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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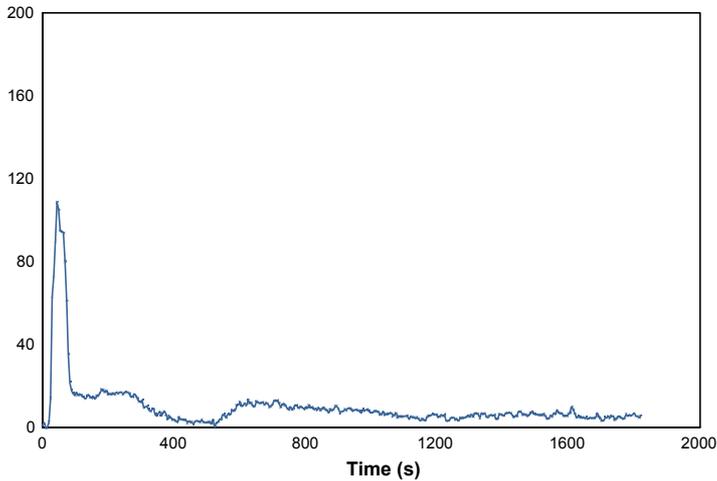
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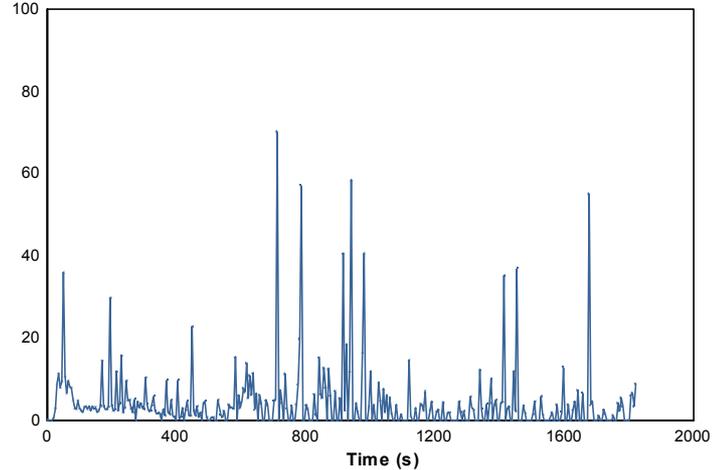
**Test Number :** 19-004990  
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**Specimen :** 3

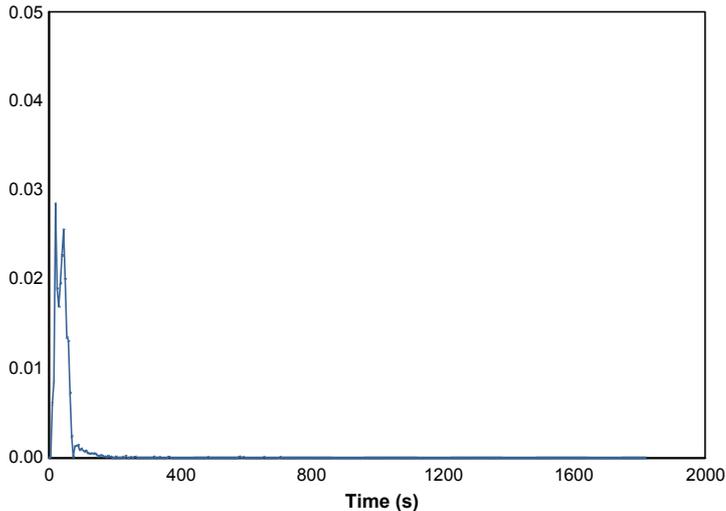
Heat release rate (kW/m<sup>2</sup>)



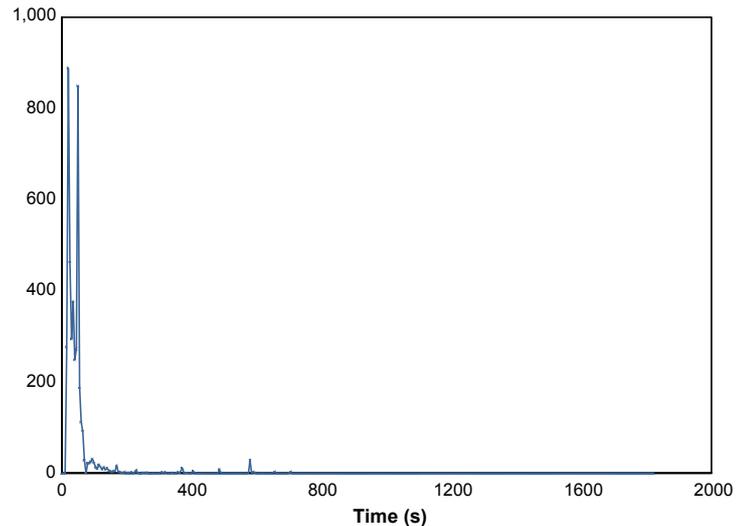
Effective heat of combustion (MJ/kg)



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



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



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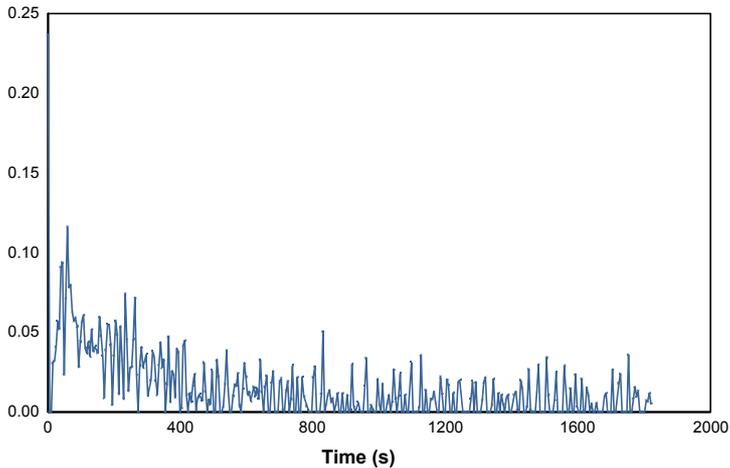
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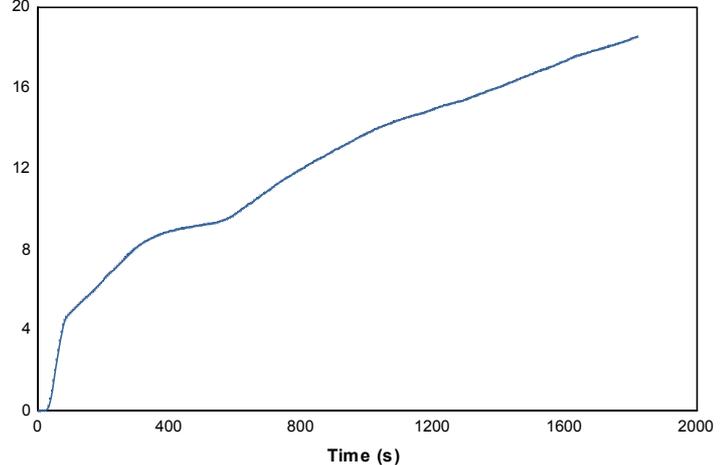
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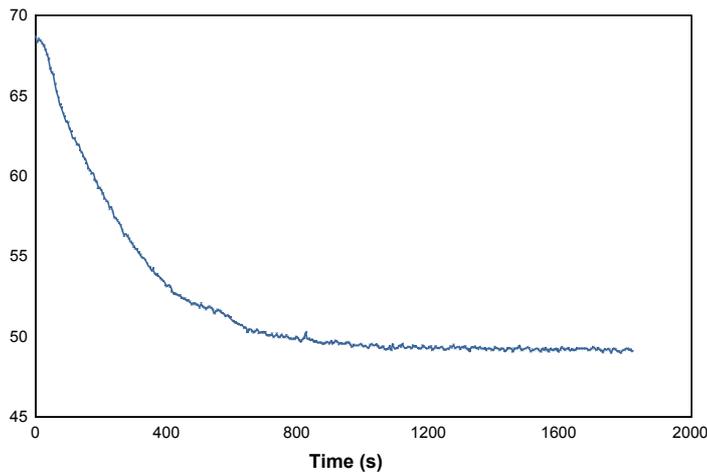
Mass loss rate (g/s)



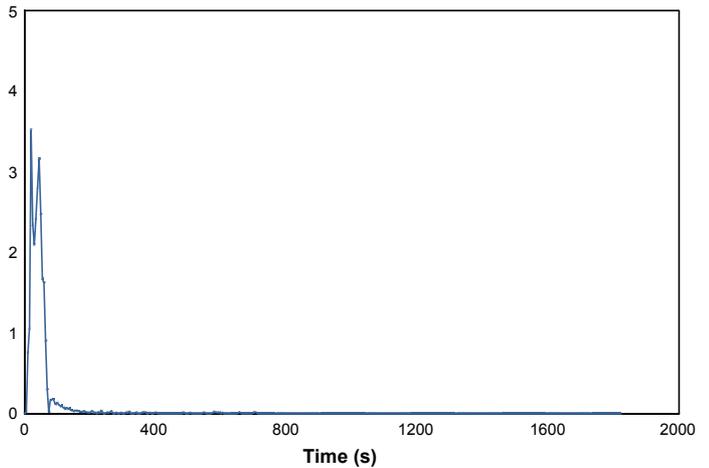
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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## Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** Unique Fabrics  
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**Issue Date :** 11/09/2019  
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**Sponsor Product** Clients Ref : "Arte Prisma Arctic Shades, Dunes, Micron , Neon, Sento Silkx"  
Wallpaper Samples  
Colour : Various  
End Use : Wall Covering  
Nominal Composition : PVC Acrylic Top Layer with Non-Woven Backing  
Nominal Mass per Unit Area/Density : 339g/m2  
Nominal Thickness : Approx: 1mm

Product Group Number Classification : 1S  
Average Specific Extinction Area : 35.0 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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