

# 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 :** Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

**Test Number :** 15-003913  
**Issue Date :** 11/08/2015  
**Print Date :** 12/08/2015

**Sample Description** Clients Ref : "Status 10% Transparent, Pitch (Black)"  
Woven coated fabric  
Colour : Pitch-Black  
End Use : Blinds  
Nominal Composition : 30% Polyester, 70% PVC  
Nominal Mass per Unit Area/Density : 370g/m<sup>2</sup>  
Nominal Thickness : 0.55mm

### AS/NZS 3837-1998

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	19.5	19.6	19.5	19.6	kW/m <sup>2</sup>
Average Specific extinction area	585.9	507.4	578.1	557.1	m <sup>2</sup> /kg

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

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	13	13	12	13	sec
Test duration	310	296	296	301	sec
Peak heat release after ignition	52.1	59.7	50.9	54.2	kW/m <sup>2</sup>
Average heat at 60 s	40.3	43.0	38.7	40.7	kW/m <sup>2</sup>
Average heat at 180 s	27.9	27.2	27.7	27.6	kW/m <sup>2</sup>
Average heat at 300 s	19.5	19.6	19.5	19.5	kW/m <sup>2</sup>
Total heat released	5.8	5.6	5.6	5.6	MJ/m <sup>2</sup>
Average effective heat of combustion	16.1	16.2	15.5	15.9	MJ/kg

19650

6671

Page 1 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :

- Chemical Testing of Textiles & Related Products	: Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	: Accreditation No.	985
- Heat & Temperature Measurement	: Accreditation No.	1356

This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY



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 Fax (03) 9371 2499

## TEST REPORT

**Client :** Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

**Test Number :** 15-003913  
**Issue Date :** 11/08/2015  
**Print Date :** 12/08/2015

Initial thickness	0.55	0.55	0.55	0.6	mm
Initial mass	3.7	3.7	3.7	3.7	g
Mass remaining	0.7	0.6	0.6	0.6	g
Mass percentage pyrolysed	81.2	84.5	82.5	82.7	%
Mass loss	3.0	3.1	3.1	3.1	g
Average rate of mass loss	1.2	1.2	1.3	1.2	g/m <sup>2</sup> .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 reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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 simulated airgap, consisting of the sample resting on a 12mm spacer.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

19650

6671

Page 2 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :

- Chemical Testing of Textiles & Related Products	:	Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	:	Accreditation No.	985
- Heat & Temperature Measurement	:	Accreditation No.	1356

This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY



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 Fax (03) 9371 2499

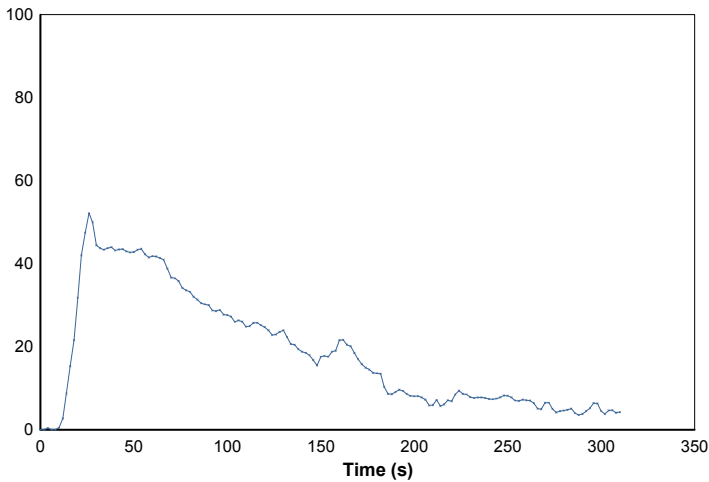
## TEST REPORT

Client : Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

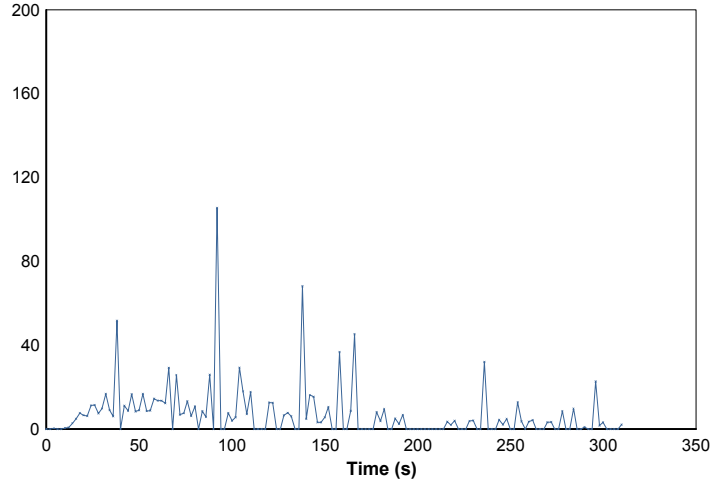
Test Number : 15-003913  
Issue Date : 11/08/2015  
Print Date : 12/08/2015

Specimen : 1

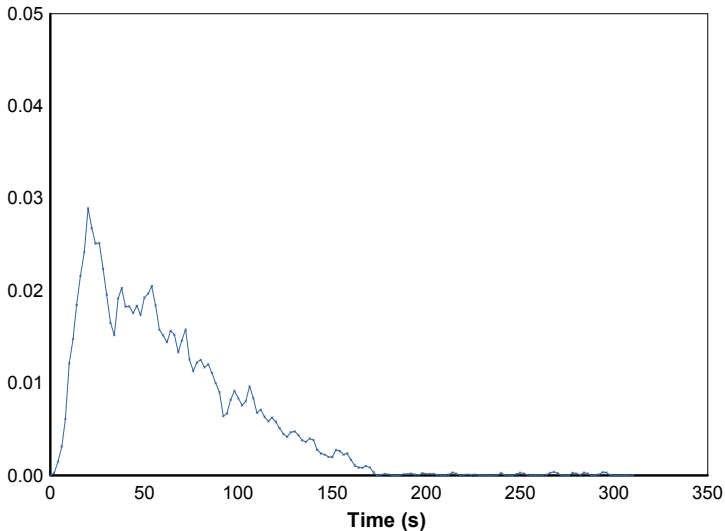
Heat release rate (kW/m<sup>2</sup>)



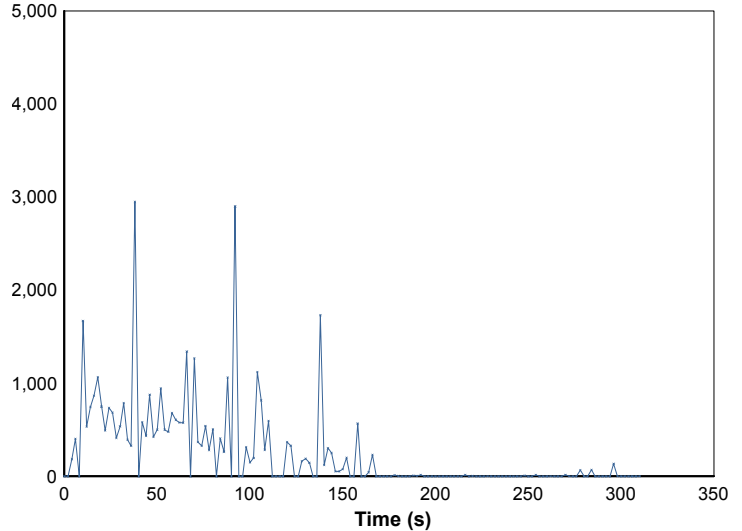
Effective heat of combustion (MJ/kg)



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



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



19650

6671

Page 3 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :

- Chemical Testing of Textiles & Related Products	: Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	: Accreditation No.	985
- Heat & Temperature Measurement	: Accreditation No.	1356

This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.



# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

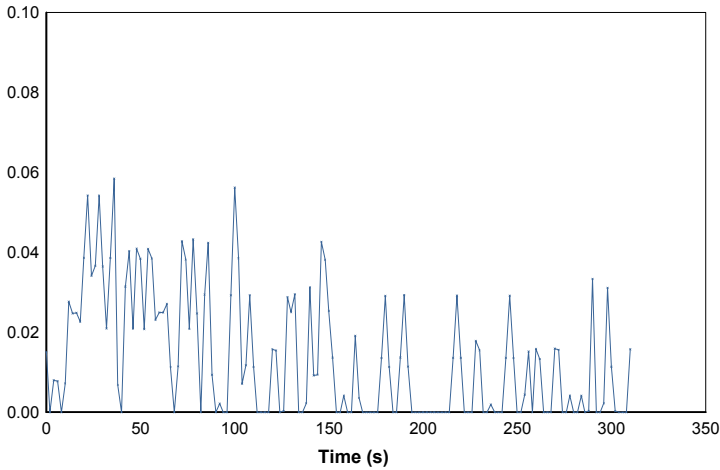
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

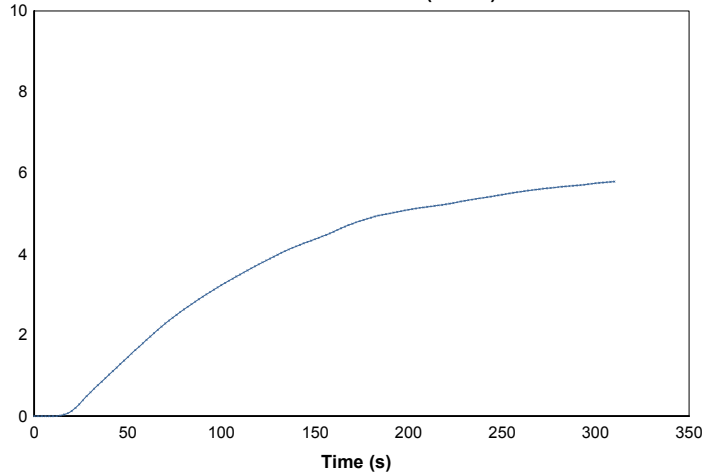
**Client :** Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

**Test Number :** 15-003913  
**Issue Date :** 11/08/2015  
**Print Date :** 12/08/2015

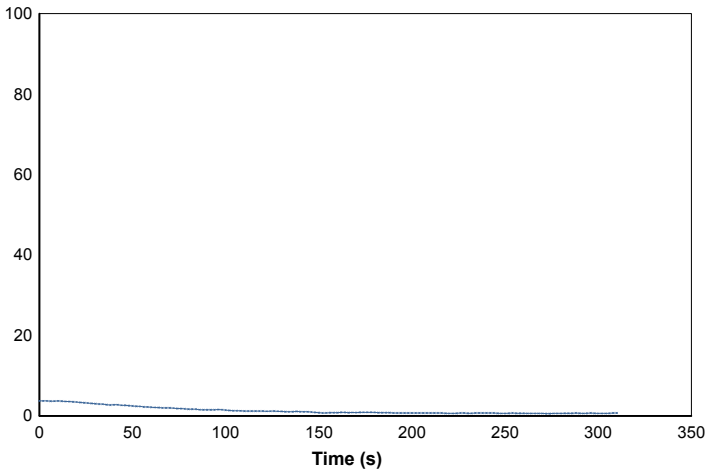
Mass loss rate (g/s)



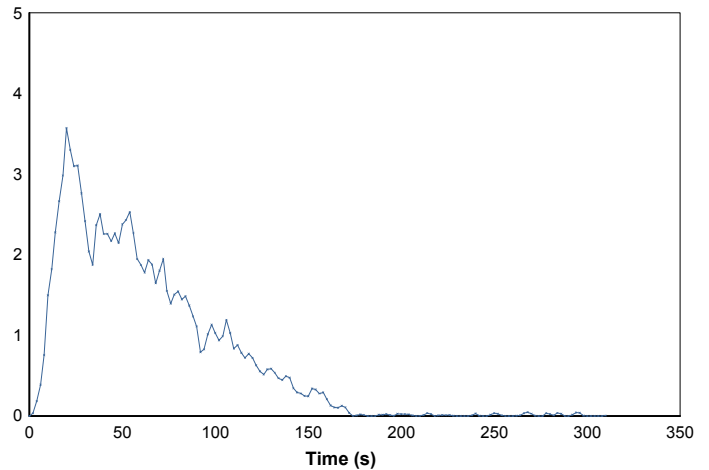
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



19650

6671

Page 4 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :

- Chemical Testing of Textiles & Related Products	: Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	: Accreditation No.	985
- Heat & Temperature Measurement	: Accreditation No.	1356

This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY



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 Fax (03) 9371 2499

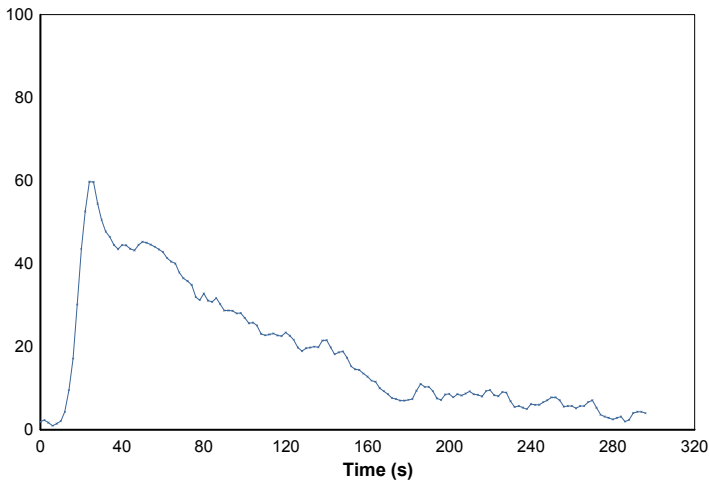
## TEST REPORT

Client : Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

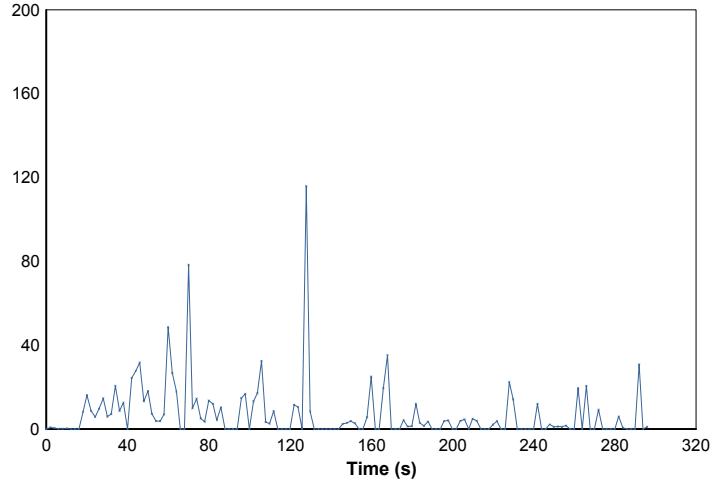
Test Number : 15-003913  
Issue Date : 11/08/2015  
Print Date : 12/08/2015

Specimen : 2

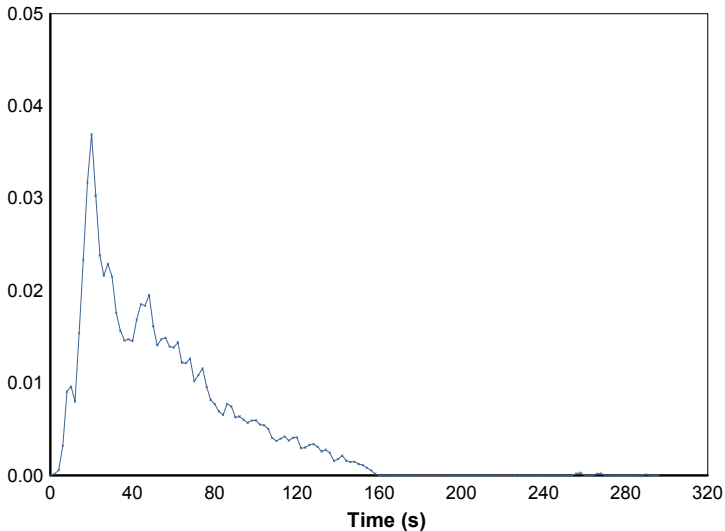
Heat release rate (kW/m<sup>2</sup>)



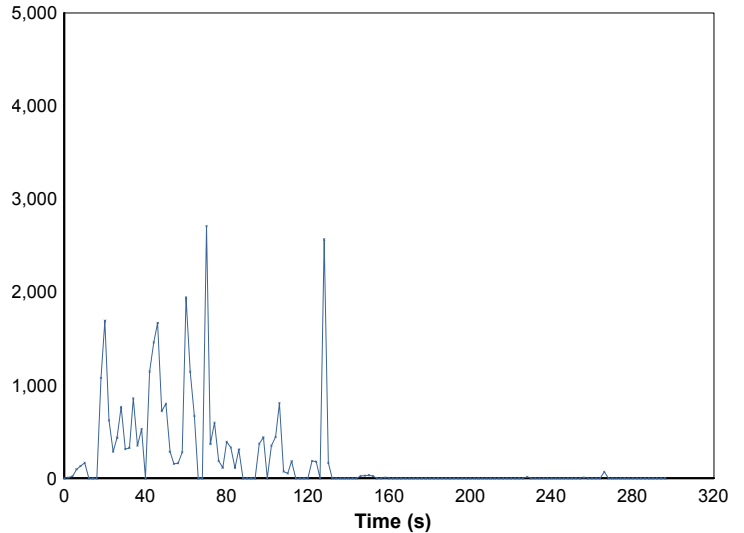
Effective heat of combustion (MJ/kg)



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



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



19650

6671

Page 5 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :  
- Chemical Testing of Textiles & Related Products : Accreditation No. 983  
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356



This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106

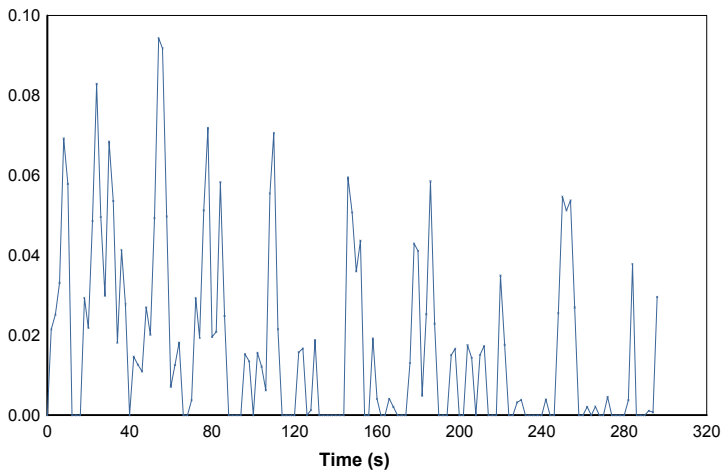
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

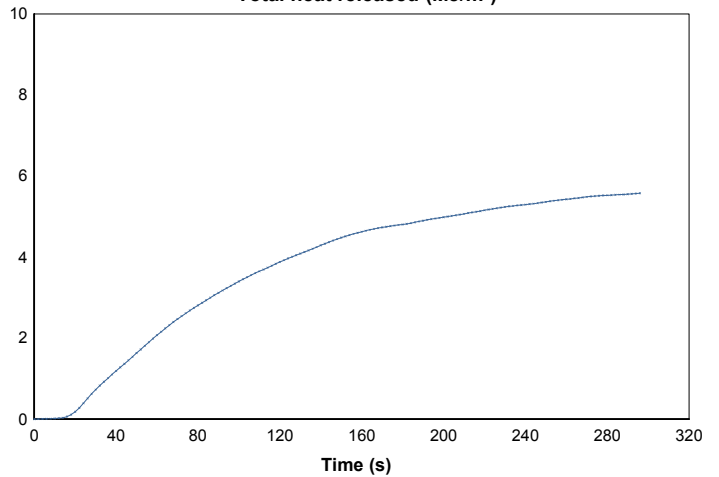
**Client :** Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

**Test Number :** 15-003913  
**Issue Date :** 11/08/2015  
**Print Date :** 12/08/2015

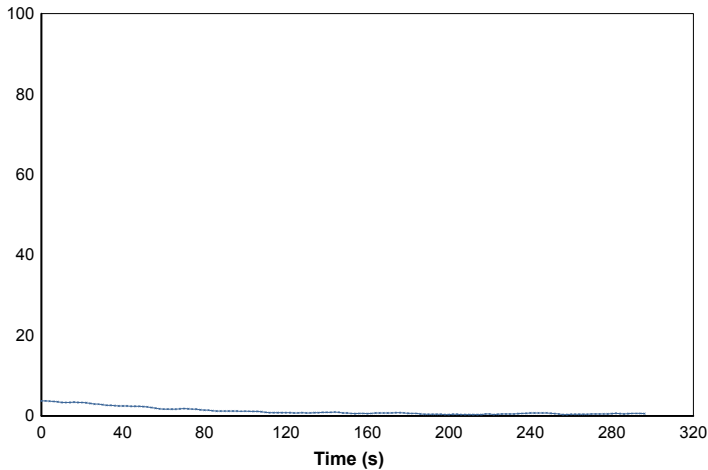
Mass loss rate (g/s)



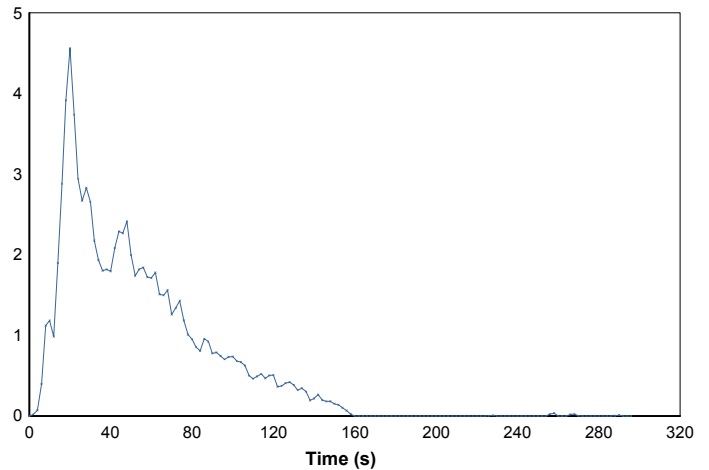
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



19650

6671

Page 6 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :  
- Chemical Testing of Textiles & Related Products : Accreditation No. 983  
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356



This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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 Fax (03) 9371 2499

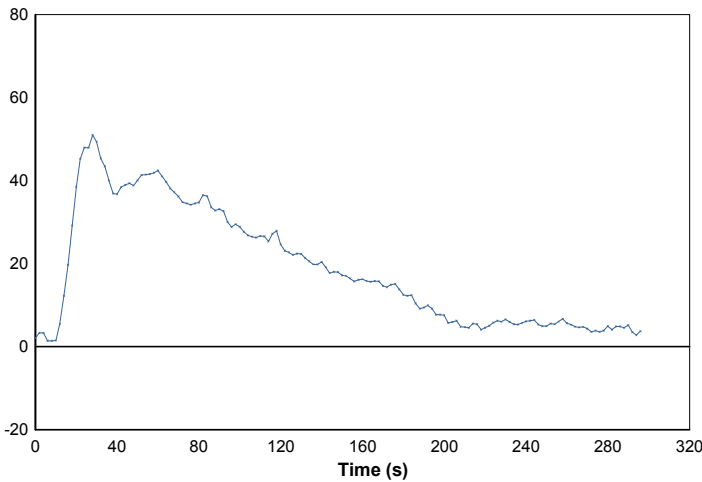
## TEST REPORT

Client : Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

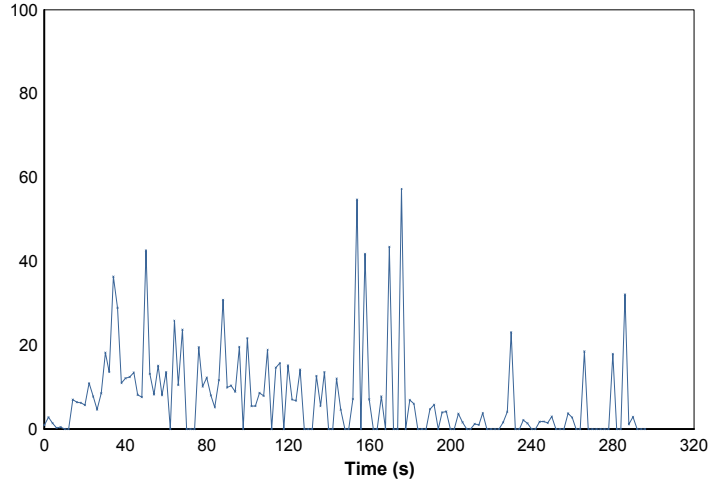
Test Number : 15-003913  
Issue Date : 11/08/2015  
Print Date : 12/08/2015

Specimen : 3

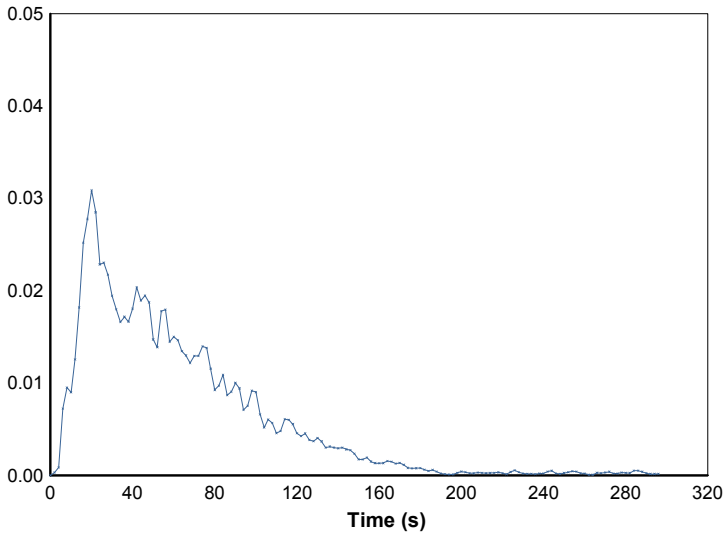
Heat release rate (kW/m<sup>2</sup>)



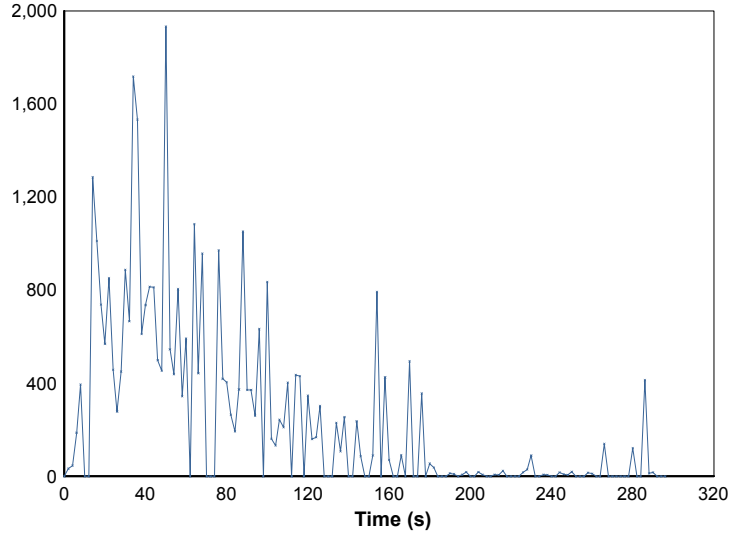
Effective heat of combustion (MJ/kg)



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



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



19650

6671

Page 7 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :  
- Chemical Testing of Textiles & Related Products : Accreditation No. 983  
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356



This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

APPROVED SIGNATORY

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

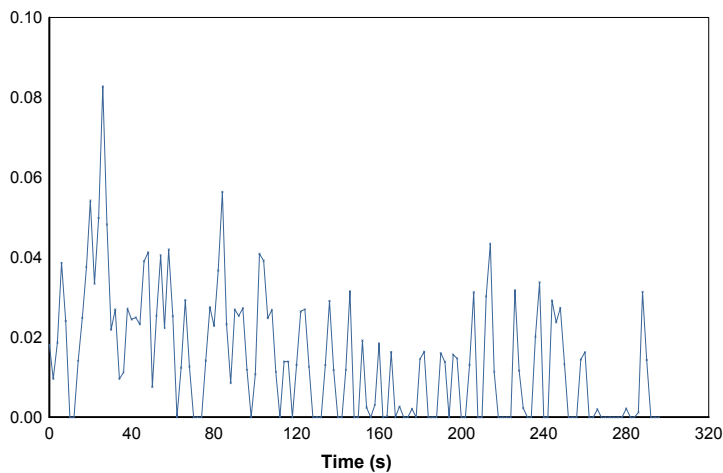
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400 Fax (03) 9371 2499

## TEST REPORT

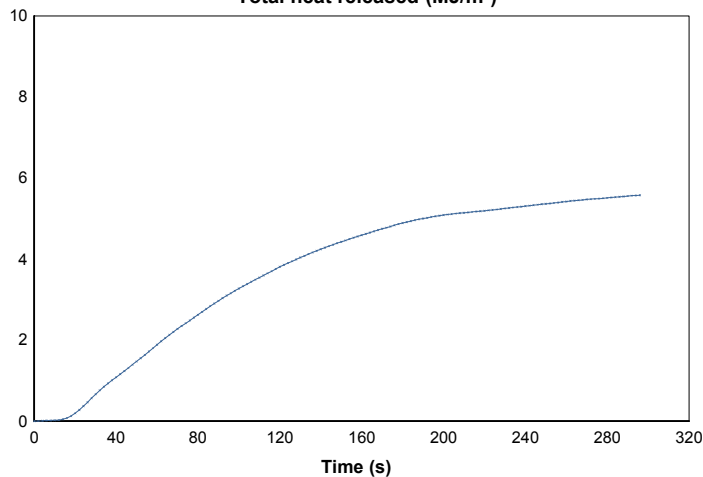
**Client :** Vertilux Corporation Pty Ltd  
PO Box 611  
Tullamarine VIC 3043

**Test Number :** 15-003913  
**Issue Date :** 11/08/2015  
**Print Date :** 12/08/2015

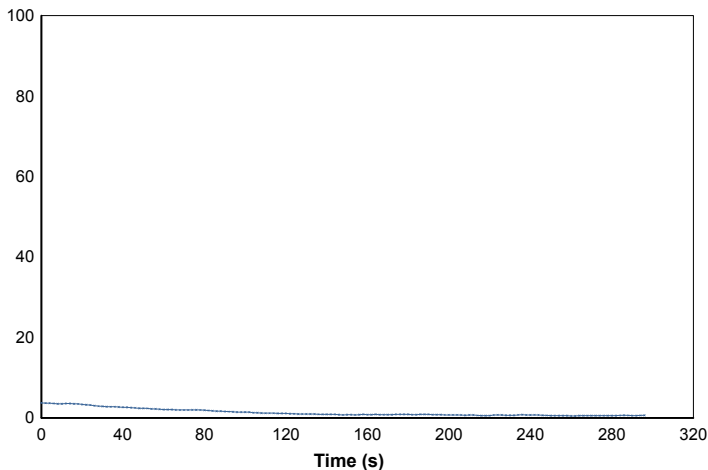
Mass loss rate (g/s)



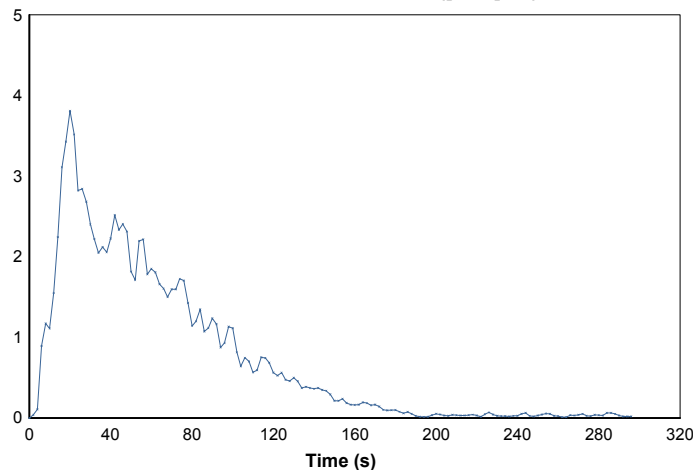
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



19650

6671

Page 8 of 8

© Australian Wool testing Authority Ltd  
Copyright - All Rights Reserved



This Laboratory is accredited by the National Association of Testing Authorities, Australia, for :  
- Chemical Testing of Textiles & Related Products : Accreditation No. 983  
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985  
- Heat & Temperature Measurement : Accreditation No. 1356

This document is issued in accordance with NATA's accreditation requirements. Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

