

# 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 PTY LTD  
PO BOX 611  
TULLAMARINE VIC 3043

TEST NUMBER : 7-562989-BV  
DATE : 28/10/2008  
ORDER NUMBER : 71130

SAMPLE DESCRIPTION Clients ref: "Euroview"  
Woven fabric  
Colour: Coal  
Nominal composition: 100% Trevira CS  
Nominal mass: 130g/m<sup>2</sup>  
Nominal thickness: 0.38mm

AS/NZS 3837:1998 Method of Test for Heat and Smoke Release Rates  
for Materials and Products Using an Oxygen  
Consumption Calorimeter

Results:-

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	18.9	19.5	20.6	19.6	kW/m <sup>2</sup>
Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	579.8	763.5	797.9	713.7	m <sup>2</sup> /kg

BCA Classification:-  
Group Classification 1 1 1  
(according to Specification A2.4 of the Building Code of Australia)

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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

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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/s
Time to sustained flaming	54	54	54	54	s
Test duration	202	206	218	209	s

Heat release rate curve on attached sheets which form part of this report

Peak heat release after ignition	131.9	138.6	105.3	125.3	kW/m <sup>2</sup>
Average heat at 60s	38.7	40.2	41.7	40.2	kW/m <sup>2</sup>
Release rate at 180s	18.8	19.5	20.6	19.6	kW/m <sup>2</sup>
After ignition at 300s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>
Total heat released	2.8	3.0	3.6	3.1	MJ/m <sup>2</sup>
Average effective heat of combustion	16.6	22.9	24.9	21.4	MJ/kg

Initial thickness	0.4	0.4	0.4	0.4	mm
Initial mass	1.6	1.3	1.3	1.4	g
Mass remaining	0.0	0.1	0.1	0.1	g
Mass percentage pyrolysed	100.0	92.3	92.3	94.9	%
Mass loss	1.6	1.2	1.2	1.3	g
Average rate of mass loss	1.1	0.9	0.8	0.9	g/m <sup>2</sup> .s

Tests were conducted with a simulated airgap, consisting of the sample resting on a wire grid followed by a 12mm spacer

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 the assessment of performance under real fire conditions

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