

# 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 : 7-575401-BV  
ISSUE DATE : 19/10/2010  
PRINT DATE : 27/10/2010  
ORDER NUMBER : 82424

SAMPLE DESCRIPTION Clients Ref:"Zing Translucent"  
Woven coated fabric  
Nominal composition: 100% Polyester  
Nominal mass: 265g/m2  
Colour Pottery  
End Use: Blinds

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

Results:-

	1	Specimen 2	3	Mean	
Average Heat Release Rate	28.6	29.1	30.8	29.5	kW/m2

Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	392.1	407.6	397.7	399.1	m2/kg
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Test orientation: Horizontal

	1	Specimen 2	3	Mean	
Irradiance	50	50	50	50	kW/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	16	16	15	16	s
Test duration	218	208	206	211	s

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

Peak heat release after ignition	171.5	222.5	199.4	197.8	kW/m2
Average heat at 60s	68.1	79.2	77.0	74.8	kW/m2
Release rate at 180s	31.7	30.7	32.2	31.5	kW/m2
After ignition at 300s	N/A	N/A	N/A	N/A	kW/m2
Total heat released	5.8	5.6	5.9	5.8	MJ/m2
Average effective heat of combustion	19.5	18.1	21.1	19.5	MJ/kg
Initial thickness	0.5	0.5	0.5	0.5	mm
Initial mass	2.5	2.6	2.4	2.5	g
Mass remaining	0.0	0.1	0.0	0.0	g
Mass percentage pyrolysed	100.0	96.2	100.0	98.7	%
Mass loss	2.5	2.5	2.4	2.5	g
Average rate of mass loss	1.5	1.6	1.5	1.5	g/m2.s

184453

1

CONTINUED NEXT PAGE

PAGE 1

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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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*JRM*

*Michael A. Jackson*  
MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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The formulae given in the Building Code of Australia have been shown to give inaccuracies in determination of Group Number for certain materials. Due to this AWTA Product Testing no longer reports Group Numbers. The formulae for calculation of Group Number is available from the website of the Australian Building Codes Board. Group Number calculation based on the results described in this report can be undertaken at the clients discretion

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 the sample within the sample holder and to stop the sample from curling around the igniter

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

184453

1

( END OF REPORT )

PAGE 2

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MANAGING DIRECTOR