

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd – trading as AWTA Product Testing  
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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 : KVADRAT A/S  
LUNDBERGSVEJ 10  
EBELTOFT 8400  
DENMARK

TEST NUMBER : 7-563475-MO  
DATE : 25/11/2008

SAMPLE DESCRIPTION Woven fabrics  
A: Pro 100% Trevira CS, 340g/m<sup>2</sup>  
B: Tempo 100% Trevira CS, 335g/m<sup>2</sup>  
C: Time 100% Trevira CS, 190g/m<sup>2</sup>  
D: Toto 100% Trevira CS, 240g/m<sup>2</sup>  
E: Zap 100% Trevira CS, 220g/m<sup>2</sup>

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	83.8	100.5	96.3	93.5	kW/m <sup>2</sup>

Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	188.9	189.6	179.4	186.0	m <sup>2</sup> /kg
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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/m2
Exhaust flow rate	24	24	24	24	l/s
Time to sustained flaming	49	49	48	49	s
Test duration	252	234	246	244	s

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

Peak heat release after ignition	182.0	223.5	200.8	202.1	kW/m2
Average heat at 60s	105.4	144.9	115.8	122.0	kW/m2
Release rate at 180s	86.5	101.1	98.5	95.4	kW/m2
After ignition at 300s	N/A	N/A	N/A	N/A	kW/m2
Total heat released	16.8	18.4	19.1	18.1	MJ/m2
Average effective heat of combustion	13.7	15.0	16.1	14.9	MJ/kg
Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	67.8	67.6	66.1	67.2	g
Mass remaining	57.3	56.9	56.0	56.7	g
Mass percentage pyrolysed	15.5	15.8	15.3	15.5	%
Mass loss	10.5	10.7	10.1	10.4	g
Average rate of mass loss	6.1	6.7	6.0	6.3	g/m2.s

Samples were loose laid onto a substrate of 10mm thick plasterboard prior to testing

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

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