

AWTA PRODUCT TESTING

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

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TEST REPORT

CLIENT : KVADRAT A/S
LUNDBERGSVEJ 10
EBELTOFT 8400
DENMARK

TEST NUMBER : 7-58528-CO
ISSUE DATE : 20/06/2012
PRINT DATE : 20/06/2012

SAMPLE DESCRIPTION Clients Ref: "Clara"
Woven fabric Colour: Red/White
Nominal Composition: 92% Wool, 8% Nylon

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	39.2	41.5	42.0	40.9	kW/m2
Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia)	34.5	18.4	18.6	23.8	m2/kg

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	10	11	11	11	s
Test duration	195	204	198	199	s

Heat release rate curve on the 9 attached sheets which form part of this report

Peak heat release after ignition	126.2	130.3	137.2	131.2	kW/m2
Average heat at 60s	91.5	89.7	94.9	92.0	kW/m2
Release rate at 180s	39.7	43.1	42.9	41.9	kW/m2
After ignition at 300s	N/A	N/A	N/A	N/A	kW/m2
Total heat released	7.2	8.0	7.8	7.7	MJ/m2
Average effective heat of combustion	6.8	7.3	7.2	7.1	MJ/kg

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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

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

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Initial thickness	11.0	11.0	11.0	11.0	mm
Initial mass	68.5	68.9	69.0	68.8	g
Mass remaining	59.8	59.8	59.9	59.8	g
Mass percentage pyrolysed	12.7	13.2	13.2	13.0	%
Mass loss	8.7	9.1	9.1	9.0	g
Average rate of mass loss	5.8	5.7	5.8	5.8	g/m2.s

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

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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(END OF REPORT)

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