WTA 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

Gunnersen Timbermark Pty Ltd Client:

112 Salmon Street

Port Melbourne VIC 3207

14-000762 Test Number:

Issue Date 05/11/2014

Print Date 5/11/2014

"Birch Plywood" **Sample Description** Clients Ref:

Plywood

Colour: Natural

End Use: Exterior plywood

Nominal Composition: Birch, 12Ply

Nominal Mass per Unit Area/Density: Approx: 11kg/m2

16mm Nominal Thickness:

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen

Consumption Calorimeter

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	66.2	61.0	60.5	62.5	kW/m²
Average Specific extinction area	24.7	21.5	39.2	28.4	m²/kg

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

Specimen

Test orientation: Horizontal

	Specimen					
	1	2	3	Mean		
Irradiance	50	50	50	50	kW/m²	
Exhaust flow rate	24	24	24	24	L/sec	
Time to sustained flaming	30	28	30	29	sec	
Test duration	3600	3600	3600	3600	sec	
Peak heat release after ignition	335.2	379.4	293.5	336.0	kW/m²	
Average heat at 60 s	128.5	146.2	135.6	136.8	kW/m²	
Average heat at 180 s	149.8	157.2	151.3	152.8	kW/m²	
Average heat at 300 s	144.6	148.5	143.3	145.5	kW/m²	
Total heat released	236.4	217.7	215.9	223.3	MJ/m²	
Average effective heat of combustion	18.0	16.5	16.5	17.0	MJ/kg	

2,794 913 Page 1 of 8

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- Mechanical Testing of Textiles & Related Products

- Heat & Temperature Measurement

Accreditation No. Accreditation No. Accreditation No.

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

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Initial thickness	16.0	16.0	16.0	16.0	mm
Initial mass	110.4	113.8	114.6	112.9	g
Mass remaining	3.1	6.4	8.3	5.9	g
Mass percentage pyrolysed	97.2	94.4	92.8	94.8	g
Mass loss	107.3	107.4	106.3	107.0	g
Average rate of mass loss	3.7	3.7	3.7	3.7	g/m².s

The formulaes 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. 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.

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.

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

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TEST REPORT

Client: Gunnersen Timbermark Pty Ltd

112 Salmon Street

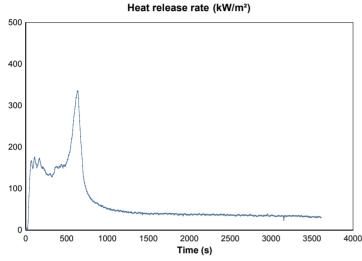
Port Melbourne VIC 3207

Test Number : 14-000762

Issue Date : 05/11/2014

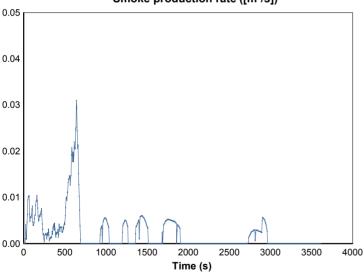
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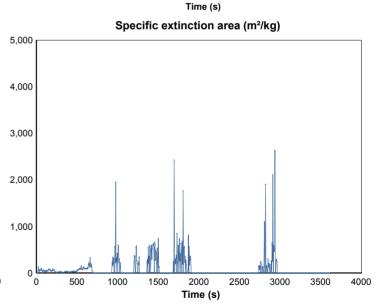
Specimen:



Effective heat of combustion (MJ/kg) 500 400 200 100 0 500 1000 1500 2000 2500 3000 3500 4000

Smoke production rate ([m²/s])





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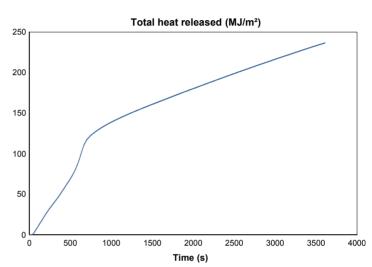
TEST REPORT

Gunnersen Timbermark Pty Ltd Client:

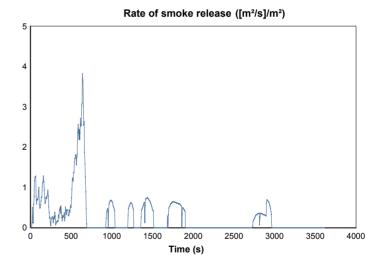
> 112 Salmon Street Port Melbourne VIC 3207

14-000762 Test Number: **Issue Date** 05/11/2014 **Print Date** 5/11/2014

Mass loss rate (g/s) 0.25 0.20 0.15 0.05 0.00 4000 500 1000 1500 2000 3000 3500 Time (s)



Mass (g) 160 120 80 40 0 -40 0 500 1000 1500 2000 2500 3000 3500 4000 Time (s)



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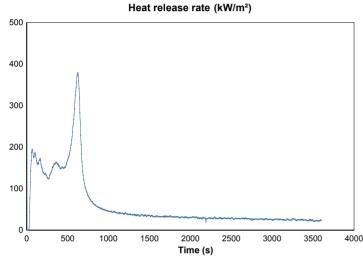
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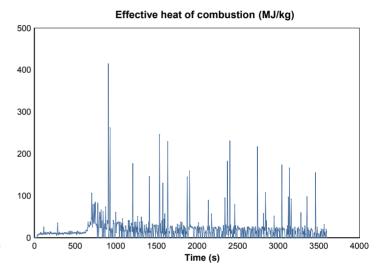
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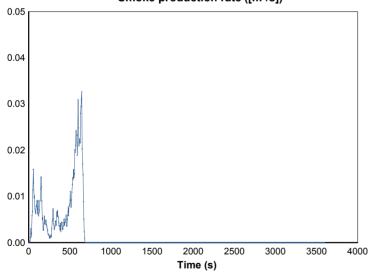
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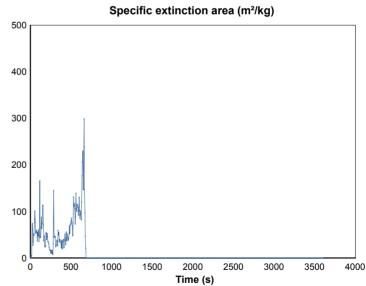
Specimen:





Smoke production rate ([m²/s])





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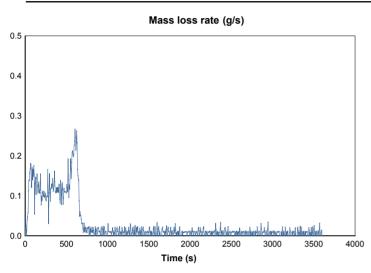
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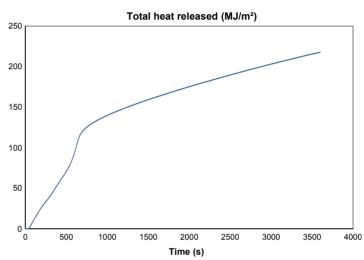
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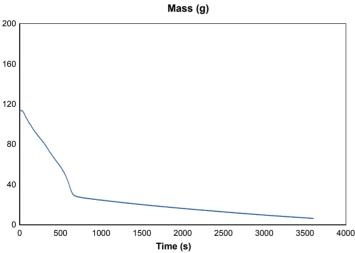
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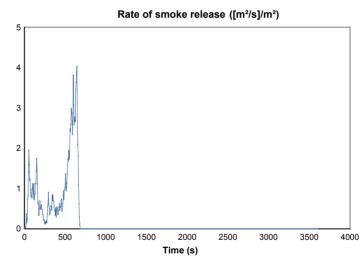
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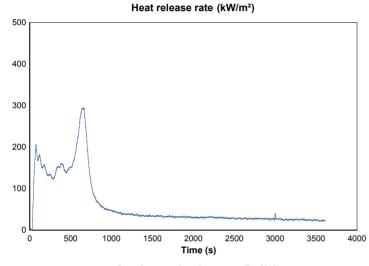
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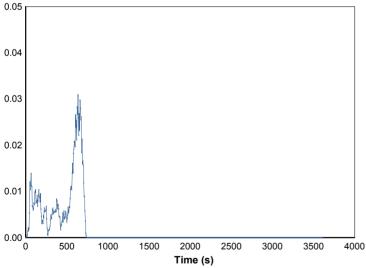
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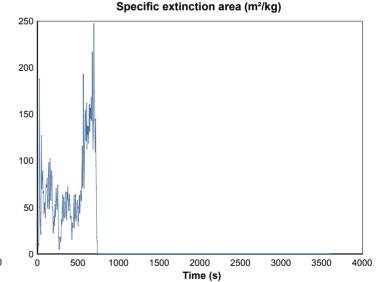
Specimen:



Effective heat of combustion (MJ/kg) 500 400 300 200 100 500 1000 1500 2000 2500 3500 4000 Time (s)

Smoke production rate ([m²/s])





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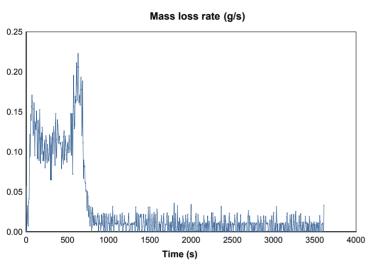
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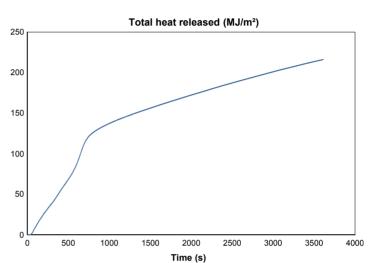
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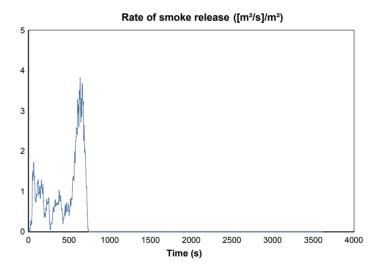
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Mass (g) 200 160 120 80 40 0 0 500 1000 1500 2000 2500 3000 3500 4000 Time (s)



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