

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

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing.

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor :

Test Number : 16-004975

Issue Date : 07/10/2016

Print Date : 7/10/2016

Sponsor Product

Clients Ref : Metallic Wallcovering
Film with non-woven backing
Colour : White
End Use : Printable Wallpaper
Nominal Composition : PVC/Polyester
Nominal Mass per Unit Area/Density : 440g/m2
Nominal Thickness : 0.41mm

Product Group Number Classification :

2

Average Specific Extinction Area :

103.4 m²/kg



Chris Campbell
Client Relations Manager

14960

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TEST REPORT

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Sample Description

Clients Ref : Metallic Wallcovering

Film with non-woven backing

Colour : White

End Use : Printable Wallpaper

Nominal Composition : PVC/Polyester

Nominal Mass per Unit Area/Density : 440g/m²

Nominal Thickness : 0.41mm

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	39.5	38.3	39.1	39.0	kW/m ²
Average Specific extinction area	96.3	108.0	105.9	103.4	m ² /kg

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

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	9	9	9	9	sec
Test duration	213	213	213	213	sec

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Accredited for compliance with ISO/IEC 17025

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- Mechanical Testing
- Performance & Approvals Testing

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: Accreditation No. 985
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APPROVED SIGNATORY

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

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Peak heat release after ignition	103.8	106.2	108.0	106.0	kW/m ²
Average heat at 60 s	80.6	82.1	83.3	82.0	kW/m ²
Average heat at 180 s	42.6	41.3	42.3	42.1	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	8.1	7.8	8.0	8.0	MJ/m ²
Average effective heat of combustion	6.2	6.1	6.1	6.1	MJ/kg
Initial thickness	10.4	10.4	10.4	10.4	mm
Initial mass	64.6	64.5	63.4	64.2	g
Mass remaining	53.7	54.0	52.4	53.4	g
Mass percentage pyrolysed	16.9	16.3	17.3	16.8	%
Mass loss	10.9	10.5	11.0	10.8	g
Average rate of mass loss	6.4	6.3	6.4	6.4	g/m ² .s

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.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

Samples were adhered to a substrate of 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

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

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TEST REPORT

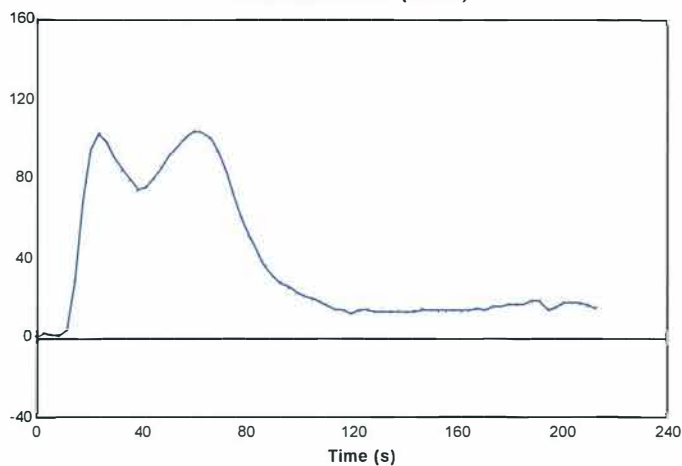
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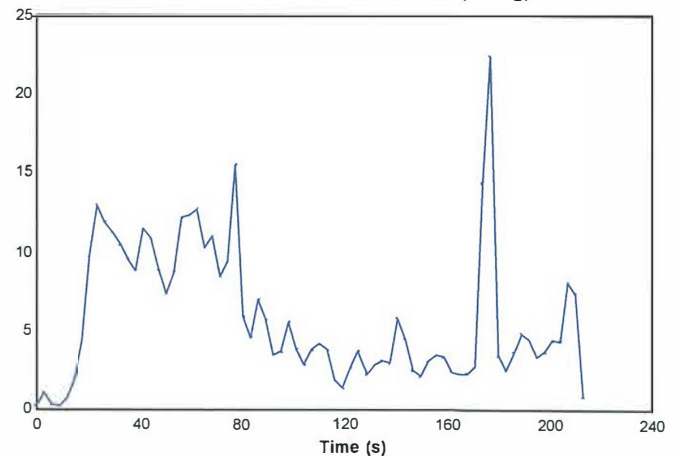
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Specimen : 1

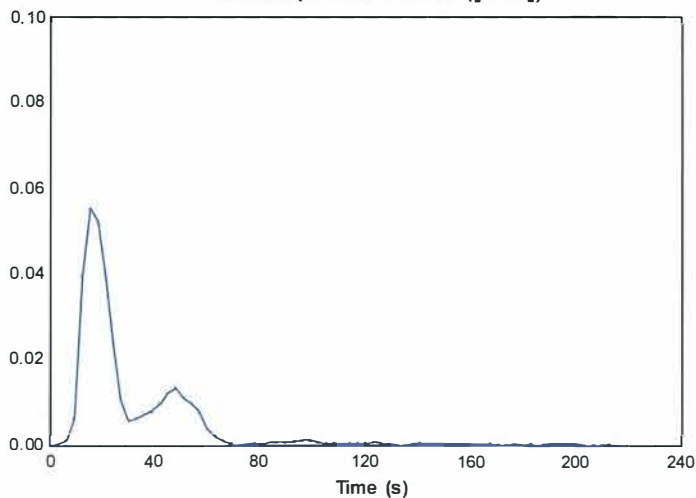
Heat release rate (kW/m²)



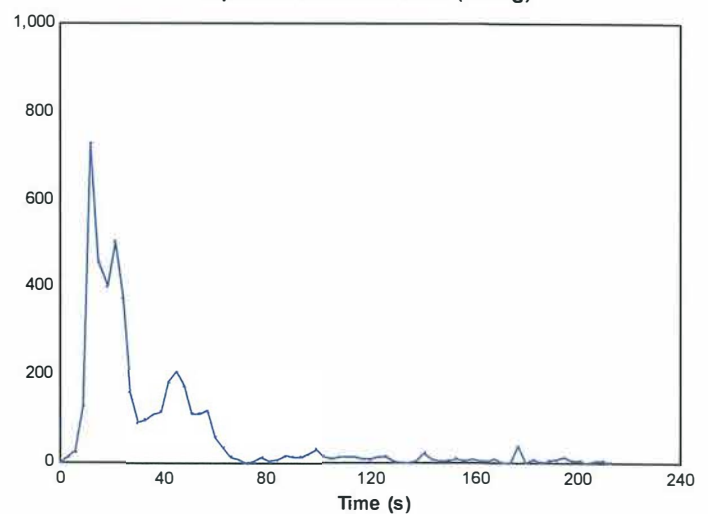
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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

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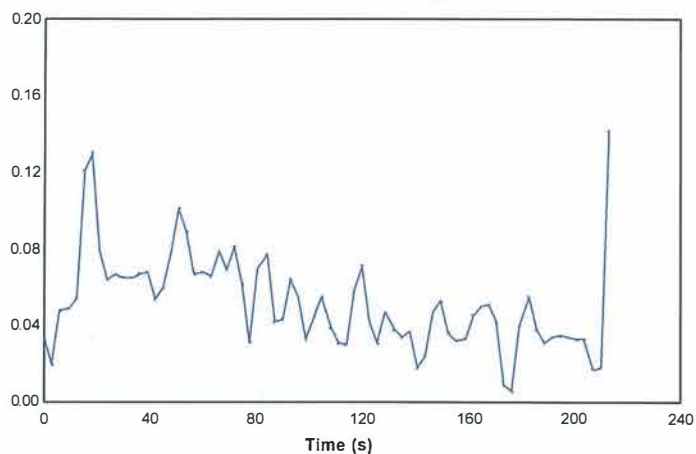
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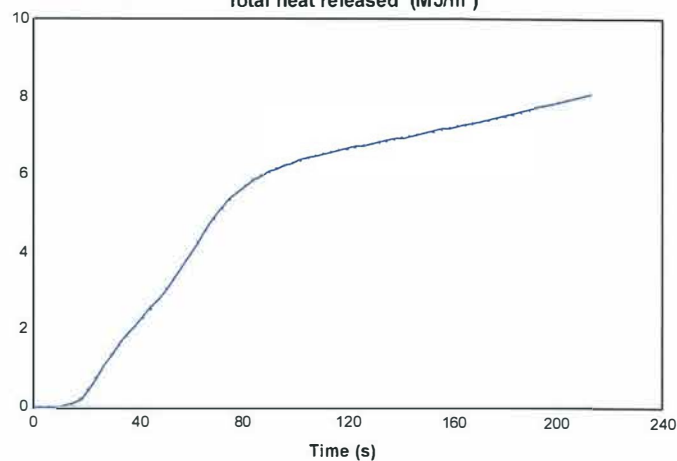
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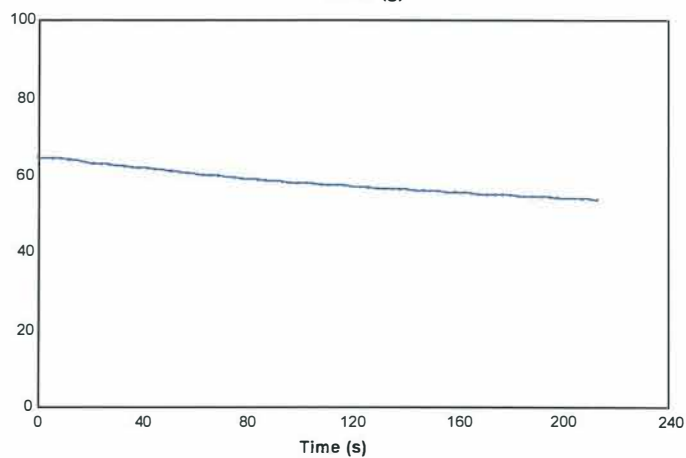
Mass loss rate (g/s)



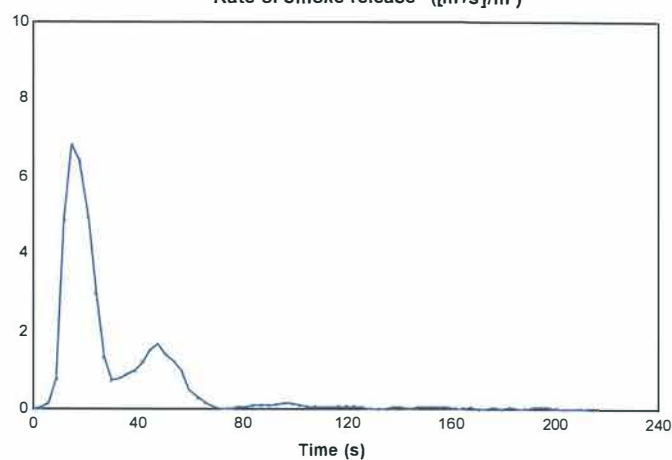
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m³/s)/m²)



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Page 4 of 8

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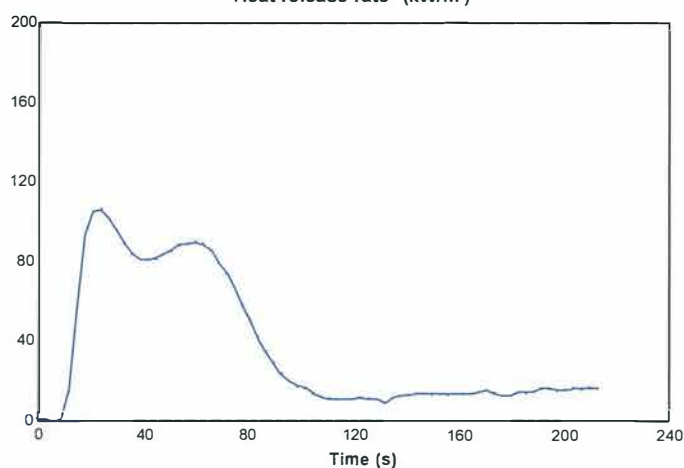
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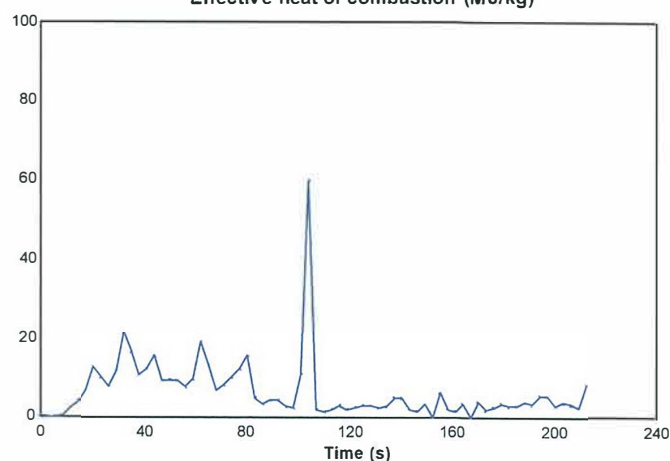
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Specimen : 2

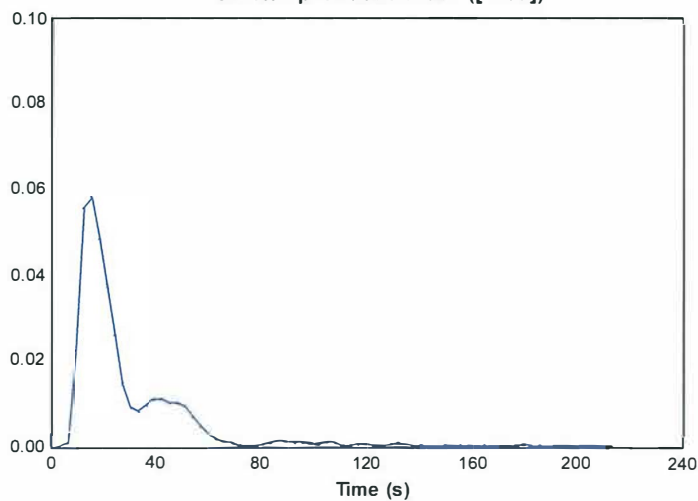
Heat release rate (kW/m²)



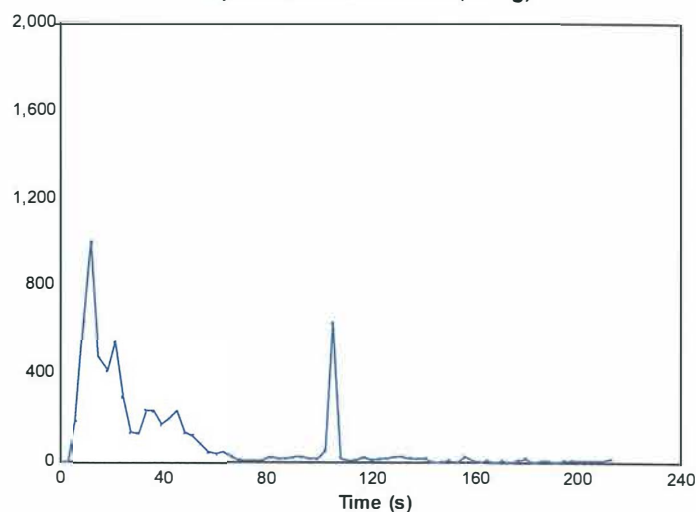
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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Page 5 of 8

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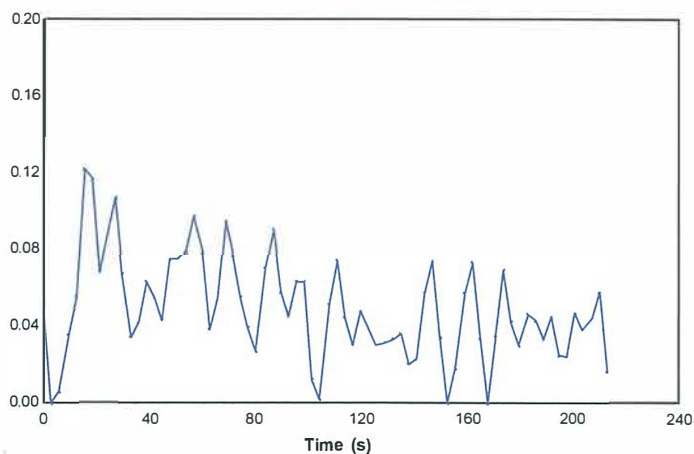
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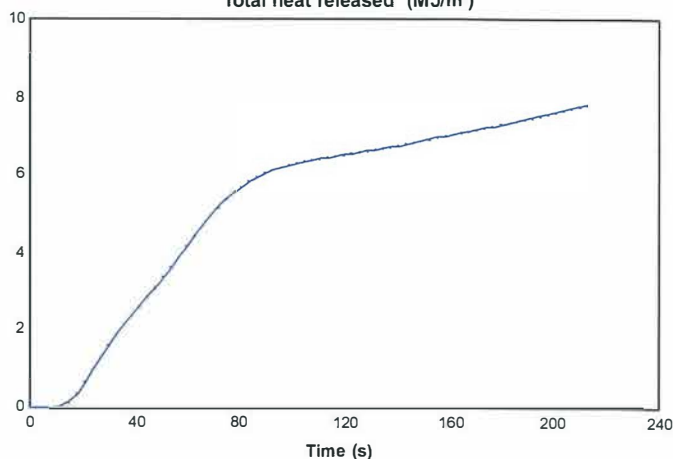
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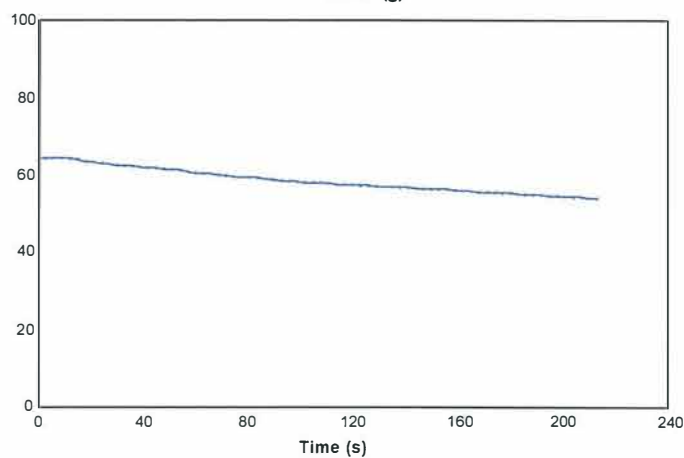
Mass loss rate (g/s)



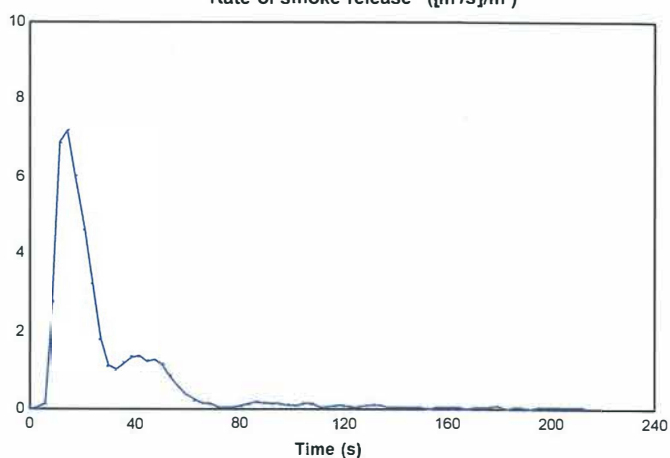
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m³/s)/m²)



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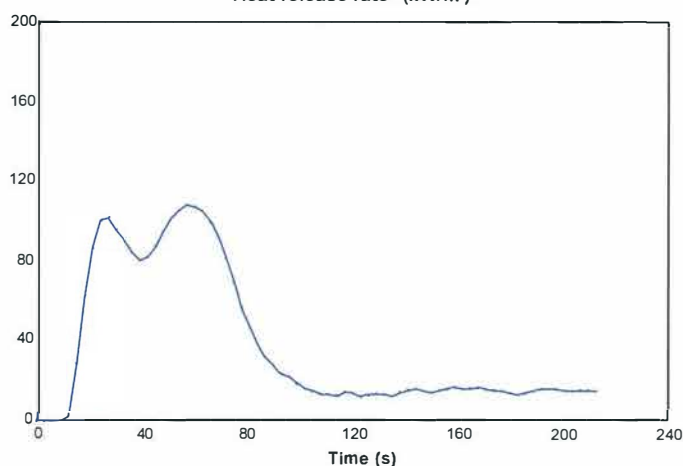
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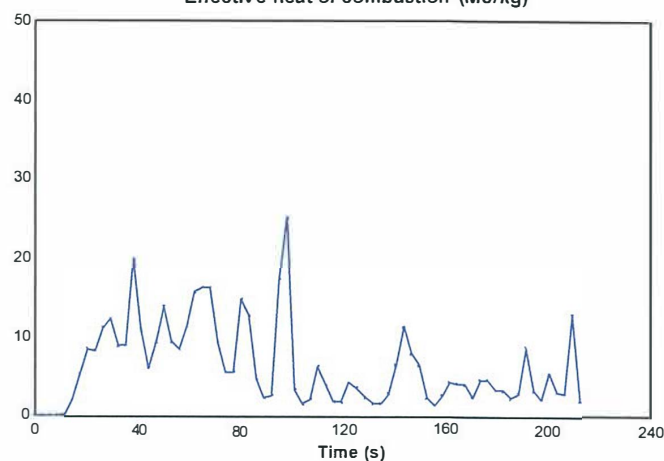
Print Date : 7/10/2016

Specimen : 3

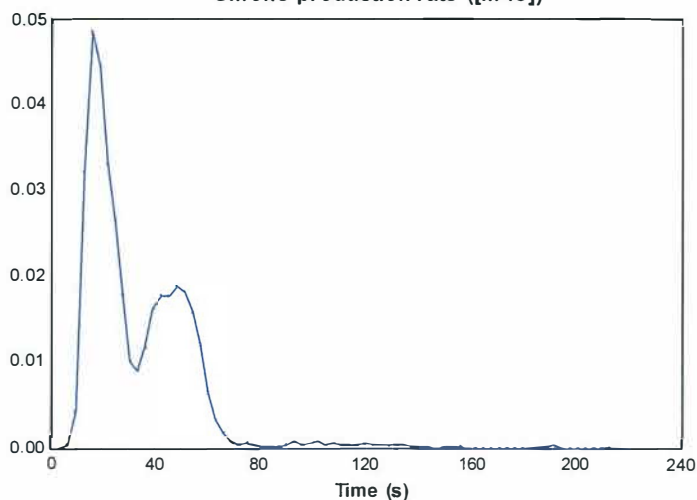
Heat release rate (kW/m²)



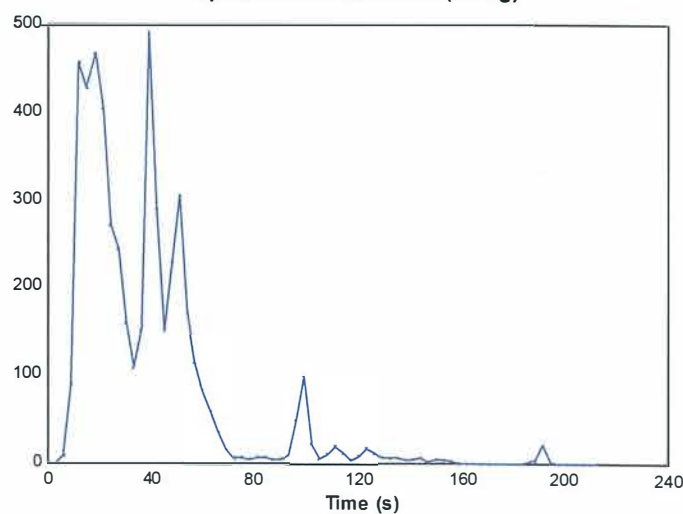
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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Page 7 of 8

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0204/11/06

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MANAGING DIRECTOR



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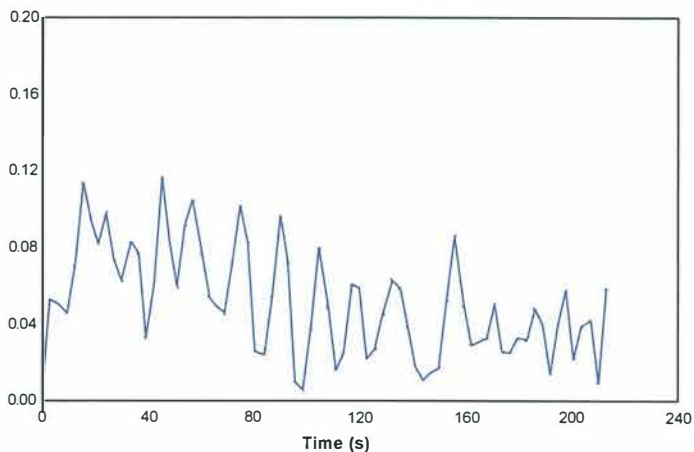
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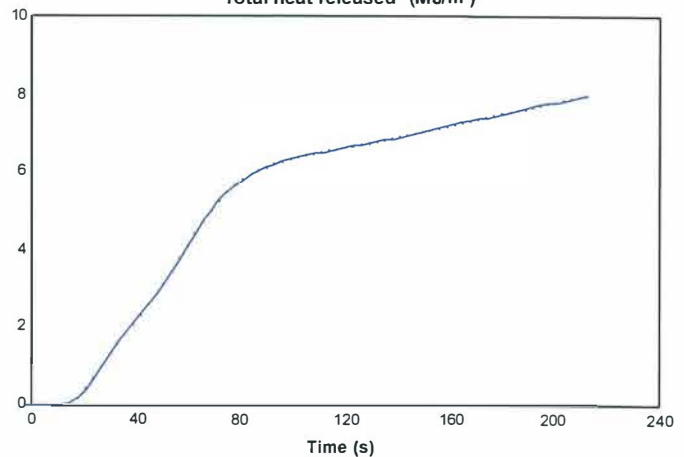
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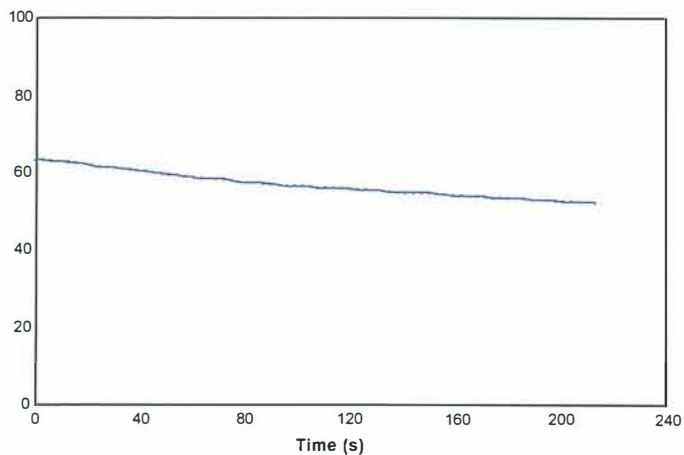
Mass loss rate (g/s)



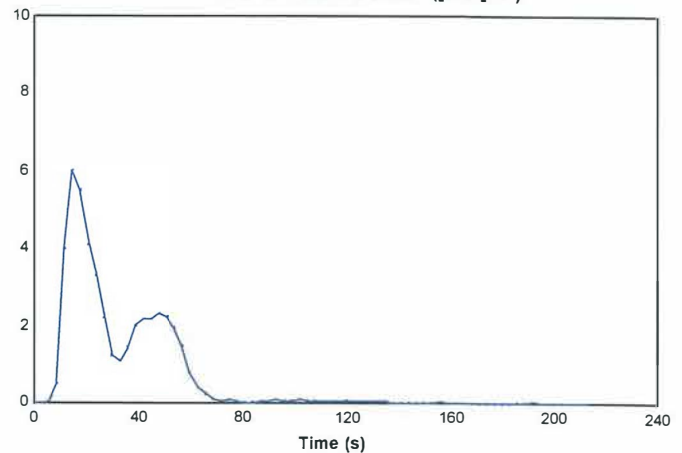
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ((m³/s)/m²)



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