

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

Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing.
Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 22-000128
Issue Date : 2/02/2022
Print Date : 7/02/2022

Sponsor Product : Clients Ref : "35oz Wall Vinyl"
Vinyl with Osnaburg Backing
Colour : Off White
End Use : Wall covering
Nominal Composition : 100% Vinyl with Osnaburg backing
Nominal Mass per Unit Area/Density : 35oz/yd²
Nominal Thickness : Approx 1mm



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19 Heath Road
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Issue Date : 2/02/2022
Print Date : 7/02/2022

Product Group Number Classification :

2S

Average Specific Extinction Area :

164.6 m²/kg



Fiona McDonald
Testing Technologist

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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 22-000128
Issue Date : 01/02/2022
Print Date : 7/02/2022
Order Number : 46455

Sample Description Clients Ref : "35oz Wall Vinyl"
Vinyl with Osnaburg Backing
Colour : Off White
End Use : Wall covering
Nominal Composition : 100% Vinyl with Osnaburg backing
Nominal Mass per Unit Area/Density : 35oz/yd2
Nominal Thickness : Approx 1mm



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

0204/11/06

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ISO 5660.1-2015

Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 01-02-2022
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	12.6	15.3	10.3	12.7	kW/m ²
Average Specific extinction area	148.1	185.2	160.6	164.6	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	16	15	12	14	sec
Test duration	1816	1815	1812	1814	sec
Peak heat release after ignition	121.4	128.7	114.2	121.4	kW/m ²
Average heat at 180 s	65.4	73.2	64.0	67.6	kW/m ²
Average heat at 300 s	45.5	50.3	44.1	46.6	kW/m ²
Total heat released	22.6	27.6	19.2	23.1	MJ/m ²
Average effective heat of combustion	7.7	9.3	6.4	7.8	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	73.3	74	74.1	73.8	g
Mass at sustained flaming	73.3	74.0	74.1	73.8	g
Mass remaining	49.3	49.9	50.4	49.9	g
Mass loss	2965.6	2976.6	2925.3	2955.8	g/m ²
Average rate of mass loss	1.6	1.6	1.6	1.6	g/m ² .s

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Total smoke Production (Non Flaming phase)	1.0	2.3	0.0	1.1	m ² /m ²
Total smoke Production (Flaming phase)	470.1	571.3	493.7	511.7	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	471.1	573.6	493.7	512.8	m ² /m ²
Specimen Surface area				-	
C-Factor (Calibration Constant)	0.037879	0.037879	0.037879	-	
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

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 intumescent sample within the sample holder.

Note: All calculations are based on ignition + 30 minutes.

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

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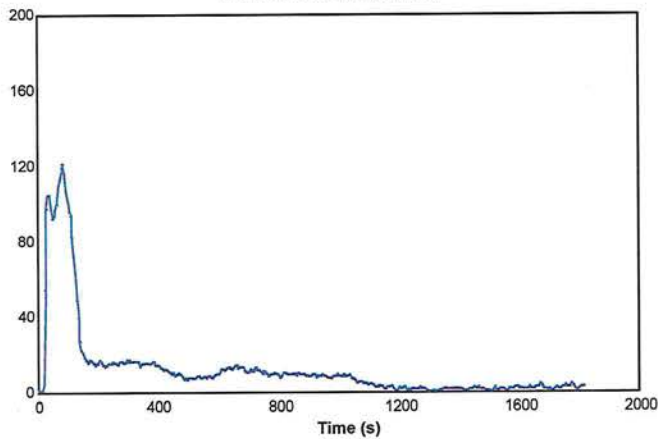
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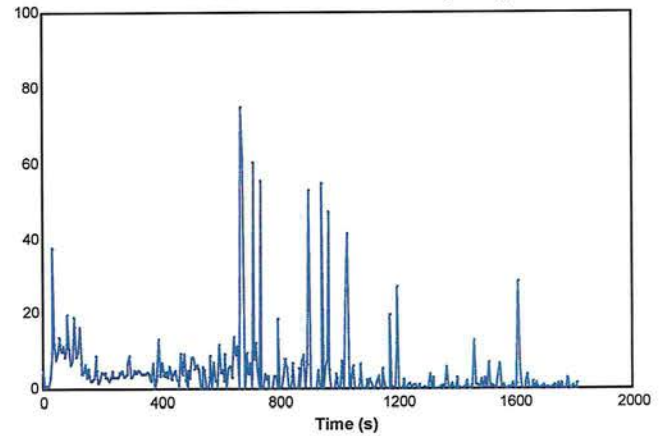
Test Number : 22-000128
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Specimen : 1

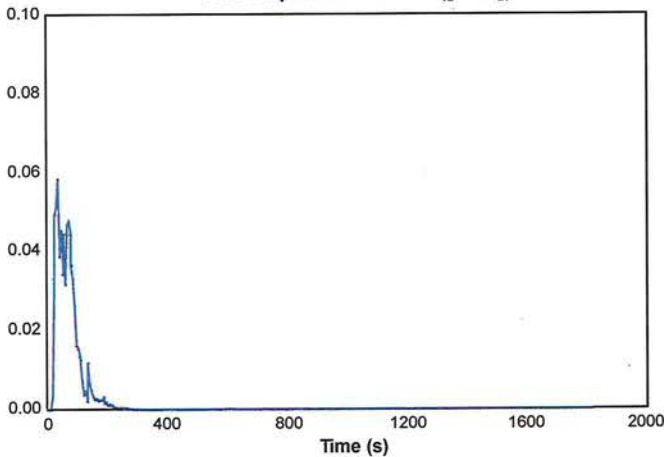
Heat release rate (kW/m²)



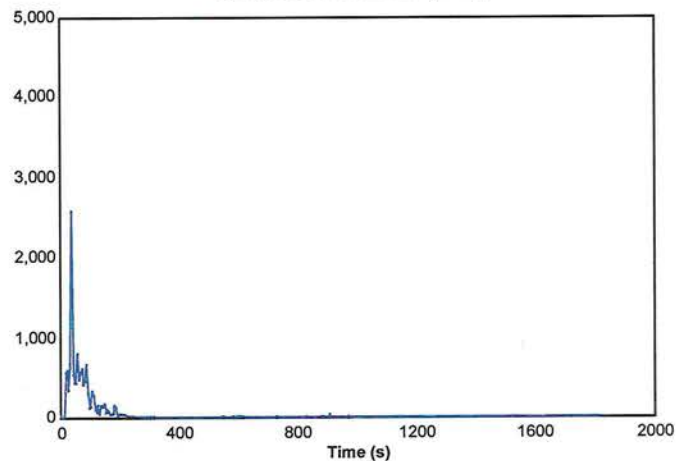
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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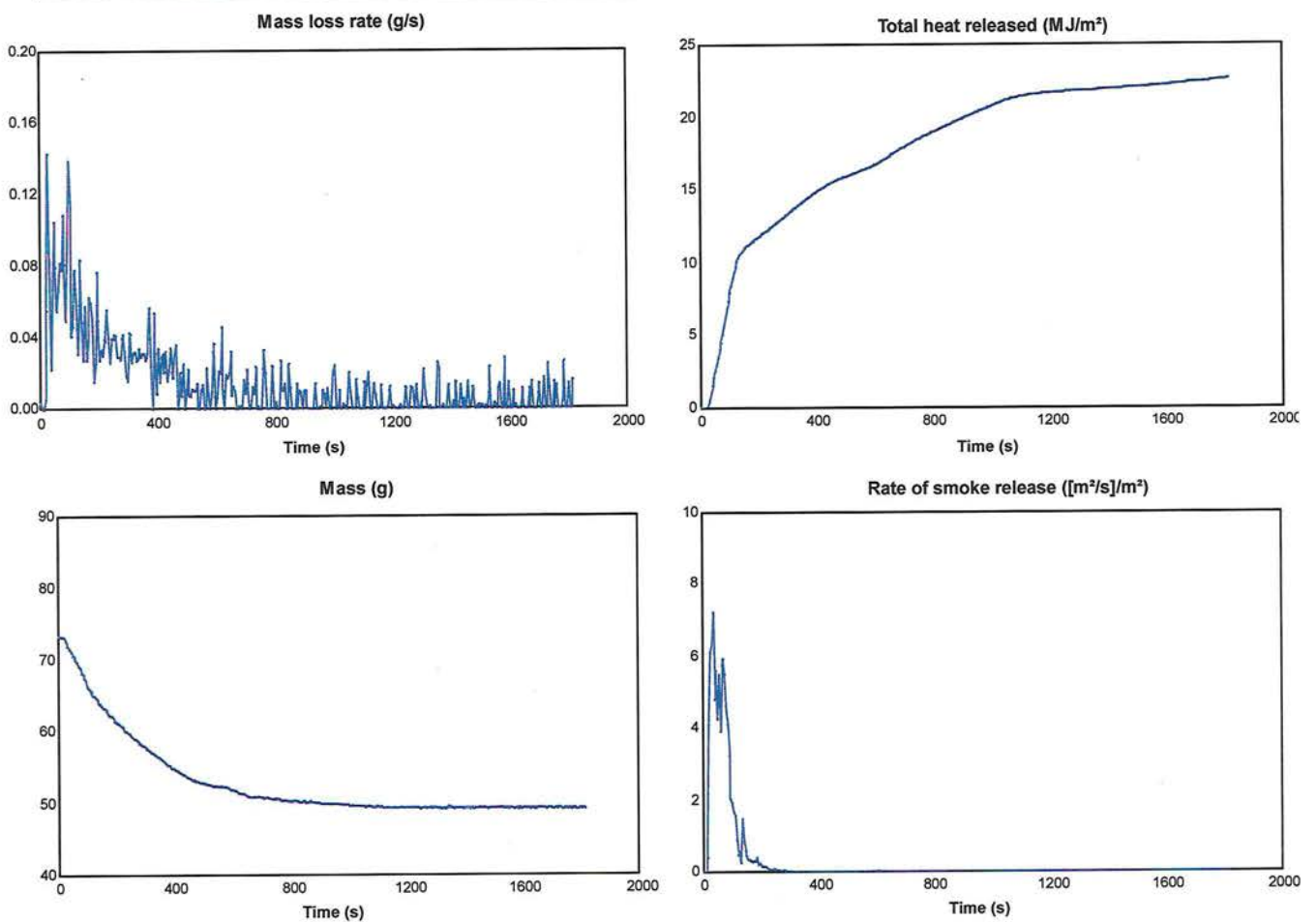
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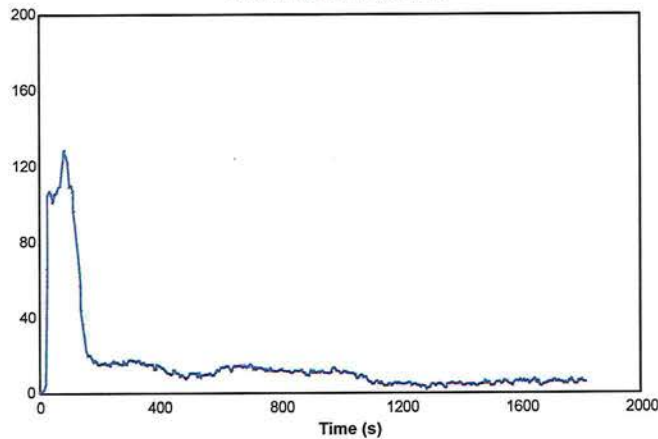
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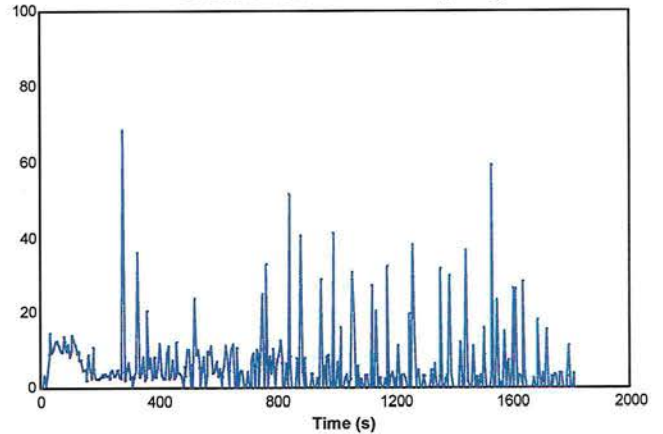
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Specimen : 2

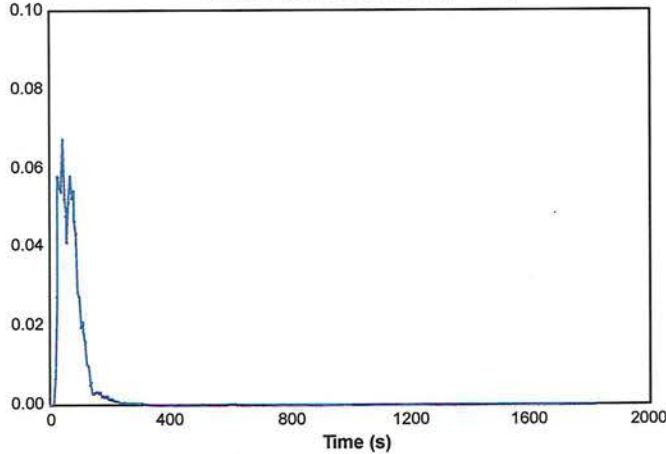
Heat release rate (kW/m²)



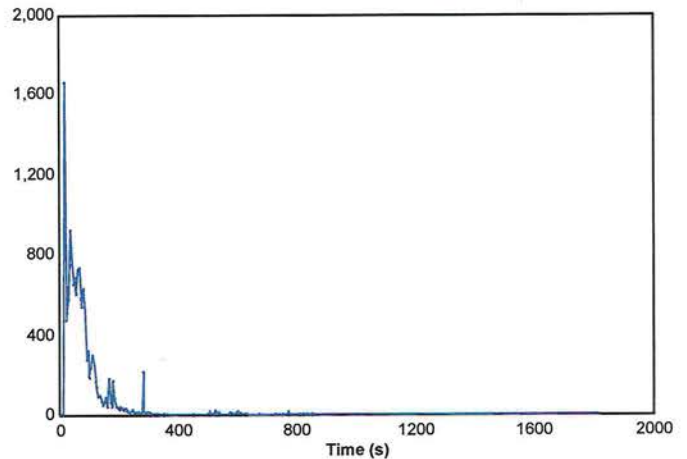
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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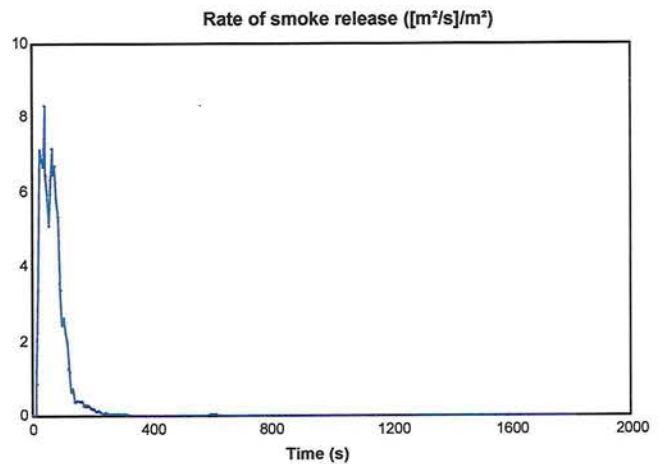
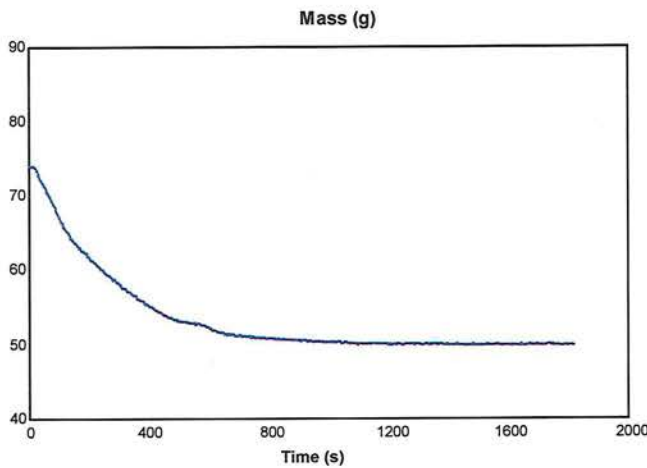
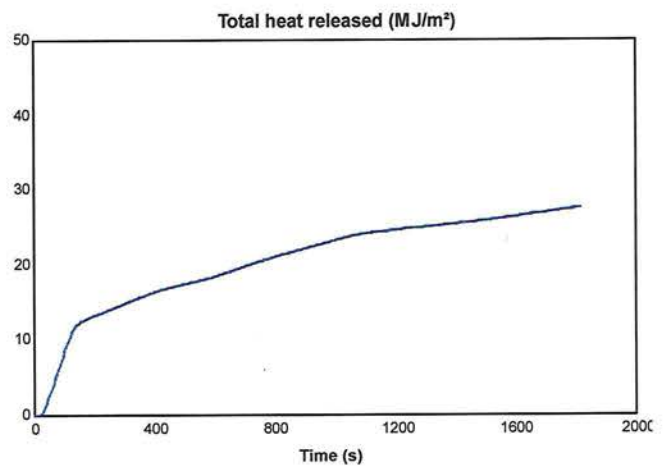
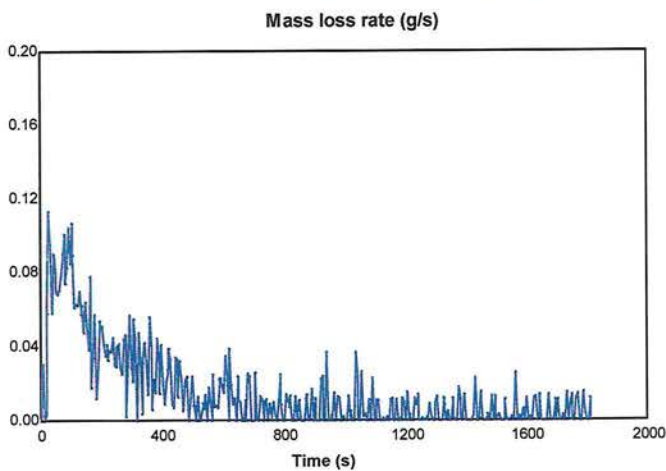
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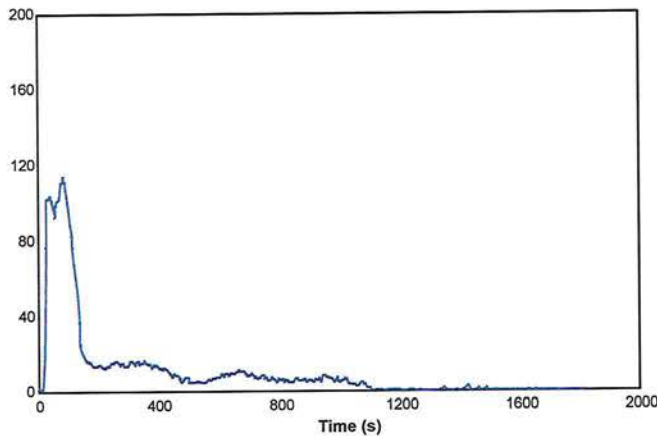
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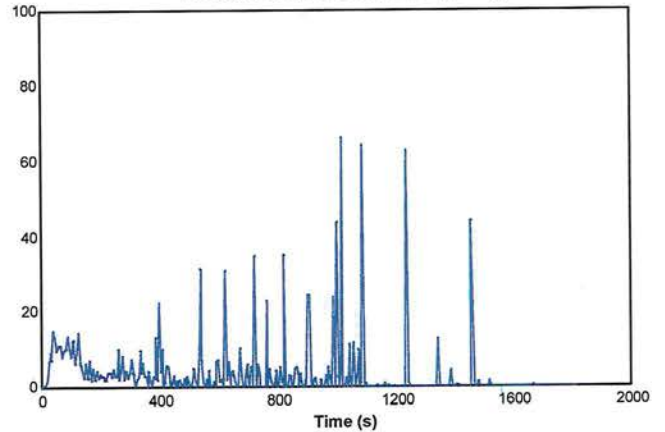
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Specimen : 3

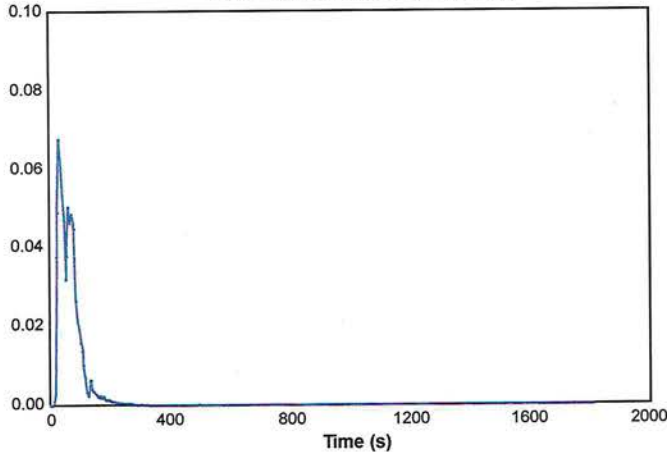
Heat release rate (kW/m²)



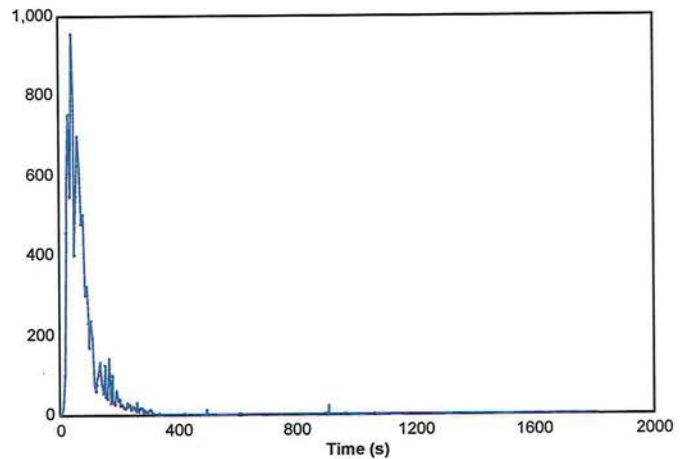
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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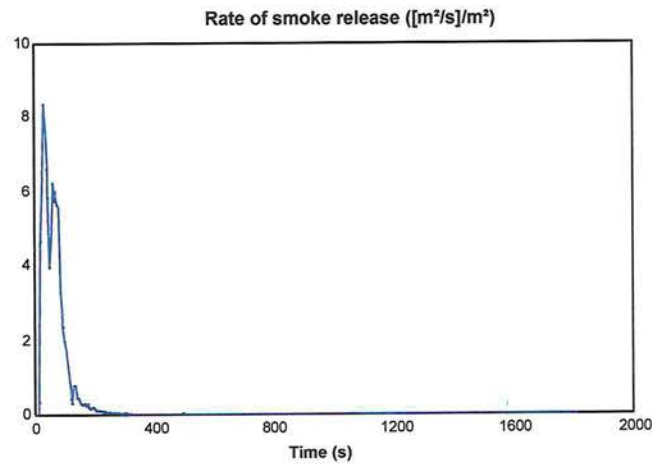
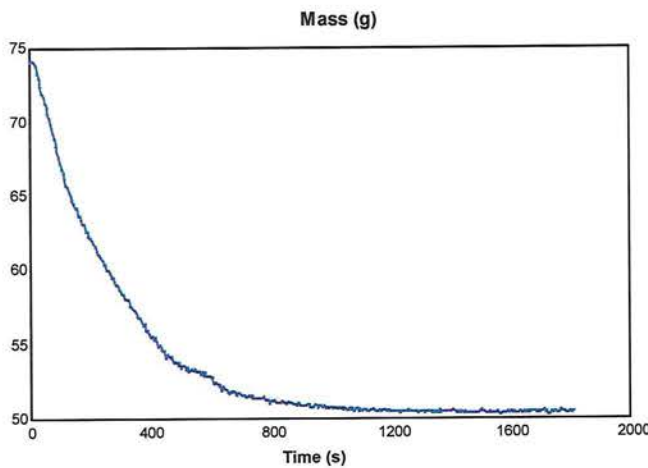
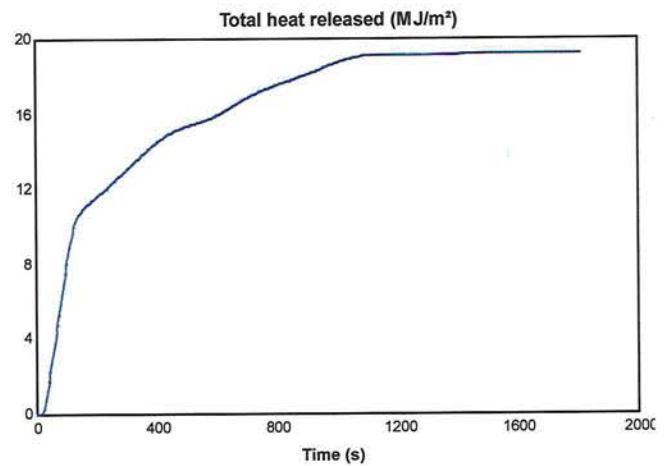
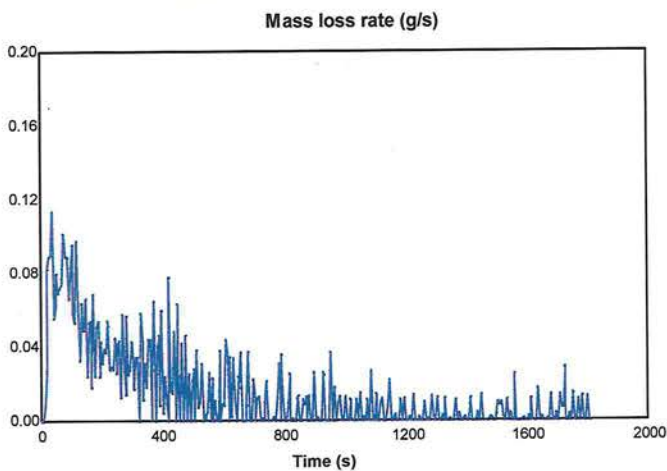
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