

# 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 :** 22-000129  
**Issue Date :** 2/02/2022  
**Print Date :** 7/02/2022

**Sponsor Product :** Clients Ref : "30oz Wall Vinyl"  
Vinyl with Osnaburg Backing  
Colour : Caramel  
End Use : Wall Covering  
Nominal Composition : 100% Vinyl with osnaburg backing  
Nominal Mass per Unit Area/Density : 30oz/yd<sup>2</sup>  
Nominal Thickness : Approx 0.9mm



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Product Group Number Classification :

2S

Average Specific Extinction Area :

106.3 m<sup>2</sup>/kg



Fiona McDonald  
Testing Technologist

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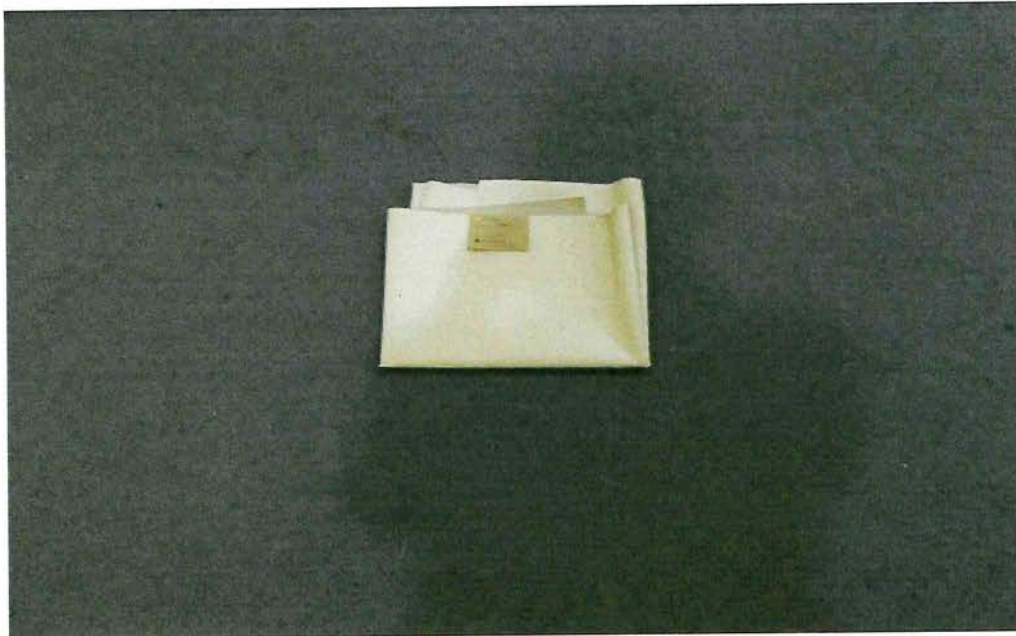
Phone (03) 9371 2400

## TEST REPORT

**Client :** Materialised Pty Ltd  
19 Heath Road  
Blakehurst NSW 2221

**Test Number :** 22-000129  
**Issue Date :** 01/02/2022  
**Print Date :** 7/02/2022  
**Order Number :** 46456

**Sample Description** Clients Ref : "30oz Wall Vinyl"  
Vinyl with Osnaburg Backing  
Colour : Caramel  
End Use : Wall Covering  
Nominal Composition : 100% Vinyl with osnaburg backing  
Nominal Mass per Unit Area/Density : 30oz/yd2  
Nominal Thickness : Approx 0.9mm



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

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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	11.9	12.9	10.9	11.9	kW/m <sup>2</sup>
Average Specific extinction area	109.9	99.0	110.0	106.3	m <sup>2</sup> /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
Irradiance	50	50	50	50	kW/m <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	10	10	9	10	sec
Test duration	1810	1810	1809	1810	sec
Peak heat release after ignition	108.9	108.6	102.2	106.5	kW/m <sup>2</sup>
Average heat at 180 s	59.5	59.5	59.8	59.6	kW/m <sup>2</sup>
Average heat at 300 s	42.2	41.5	41.7	41.8	kW/m <sup>2</sup>
Total heat released	21.4	23.2	19.7	21.5	MJ/m <sup>2</sup>
Average effective heat of combustion	7.5	8.2	7.1	7.6	MJ/kg
Initial thickness	6.9	6.9	6.9	6.9	mm
Initial mass	73	73	70.8	72.3	g
Mass at sustained flaming	73.0	73.0	70.8	72.3	g
Mass remaining	50.0	50.1	48.3	49.5	g
Mass loss	2842.2	2822.9	2778.0	2814.4	g/m <sup>2</sup>
Average rate of mass loss	1.6	1.6	1.5	1.6	g/m <sup>2</sup> .s

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*Fiona McDonald*

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*Michael A. Jackson*  
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Total smoke Production (Non Flaming phase)	0.1	0.3	0.0	0.1	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Flaming phase)	336.5	325.4	335.3	332.4	m <sup>2</sup> /m <sup>2</sup>
Total smoke Production (Non Flaming & Flaming phase)	336.6	325.7	335.3	332.6	m <sup>2</sup> /m <sup>2</sup>
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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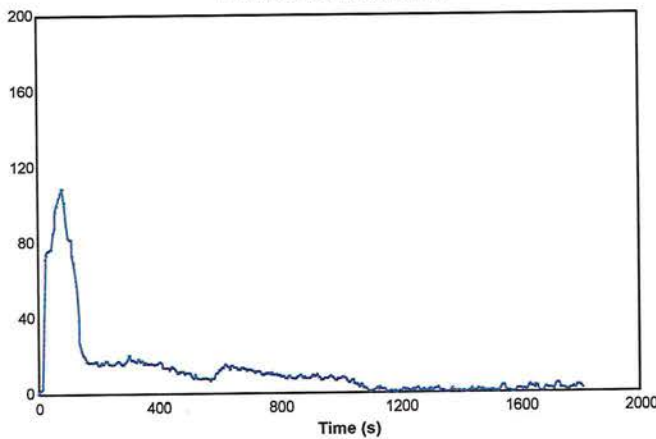
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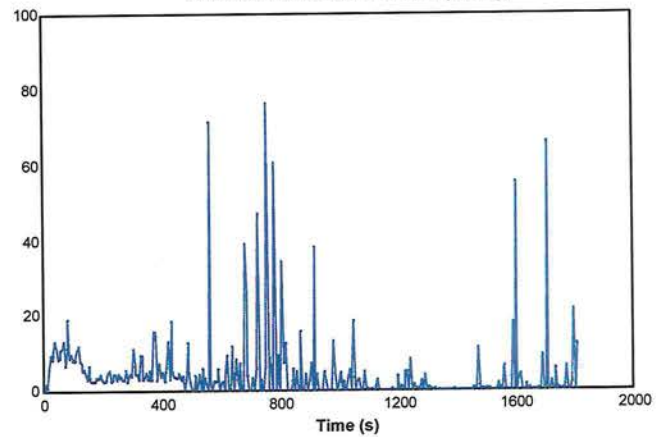
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Specimen : 1

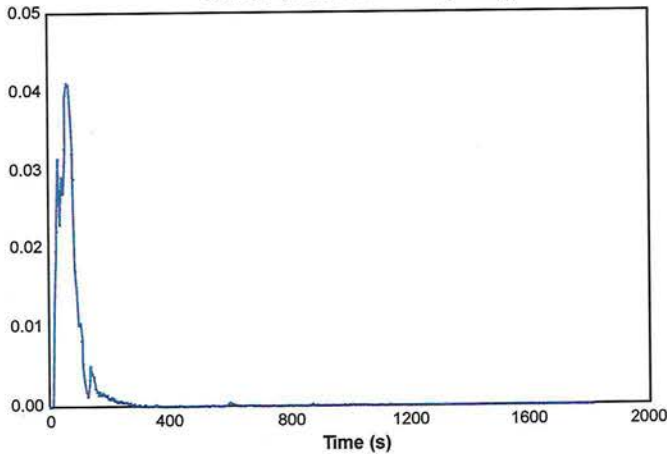
Heat release rate (kW/m<sup>2</sup>)



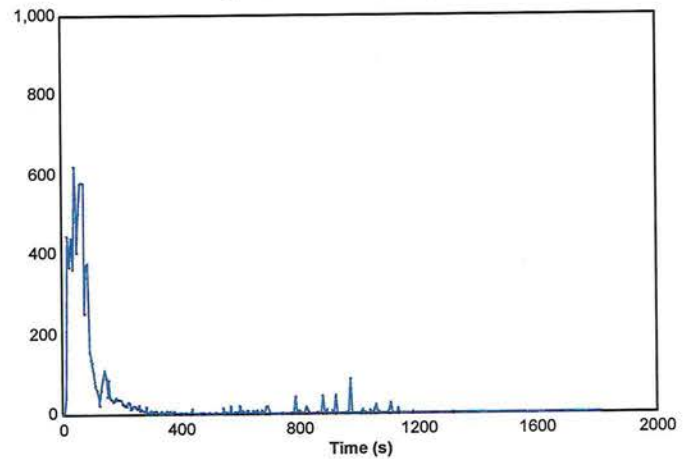
Effective heat of combustion (MJ/kg)



Smoke production rate (m<sup>2</sup>/s)



Specific extinction area (m²/kg)



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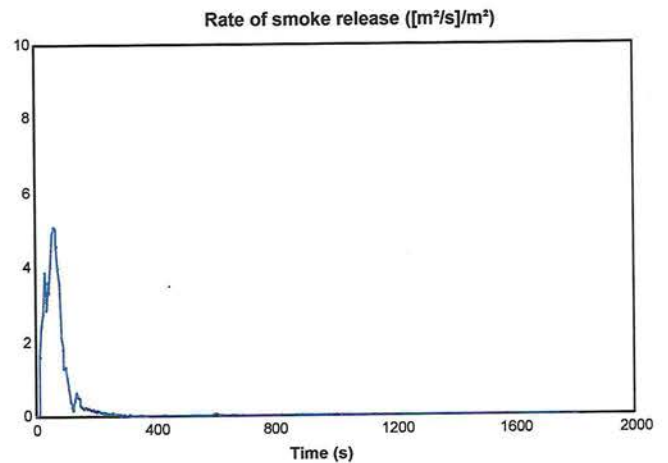
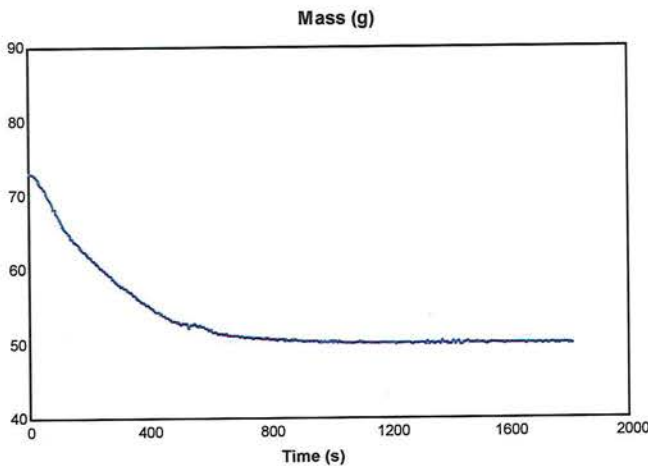
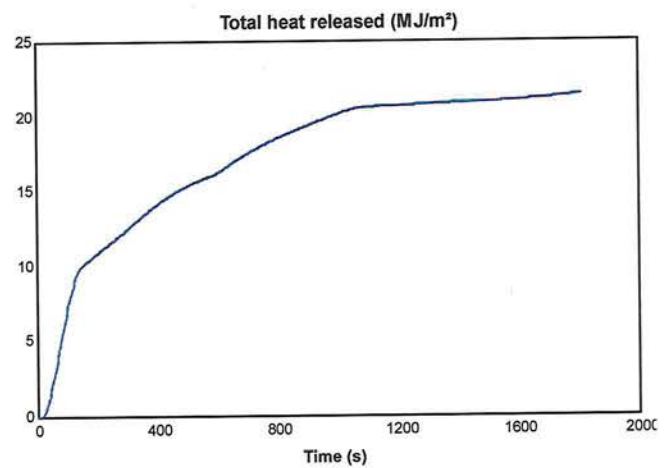
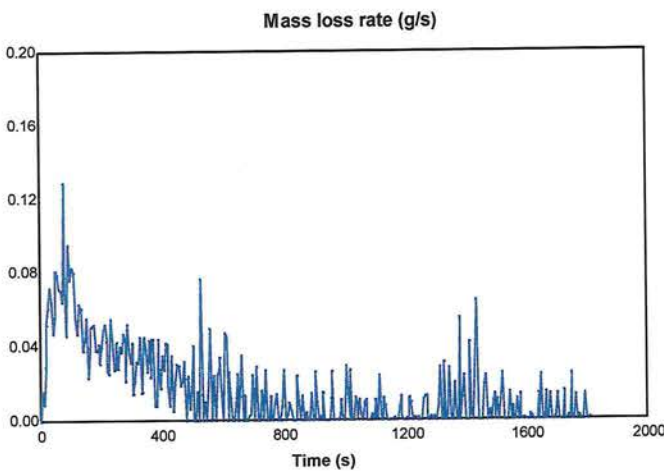
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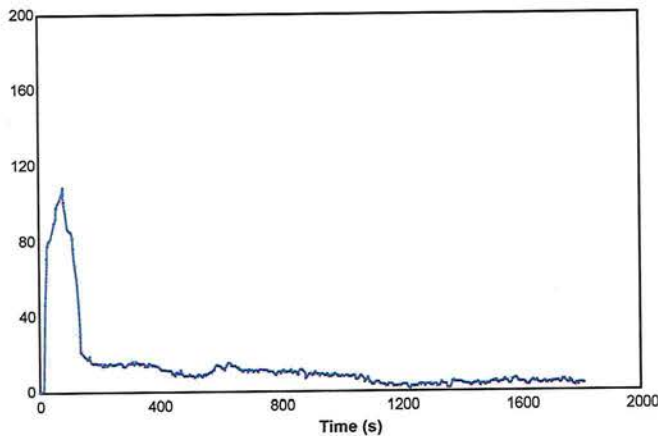
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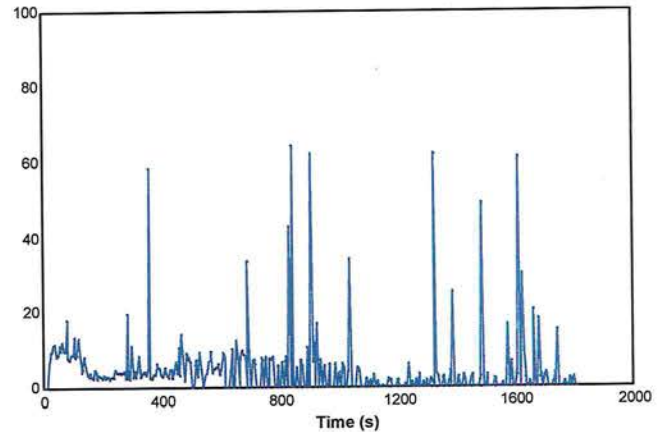
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Specimen : 2

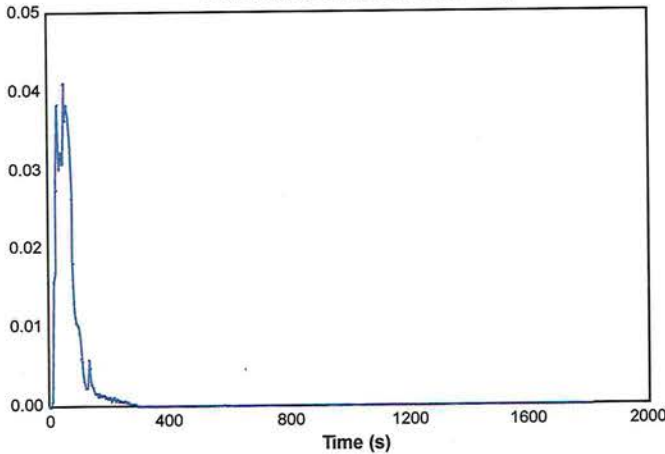
Heat release rate (kW/m<sup>2</sup>)



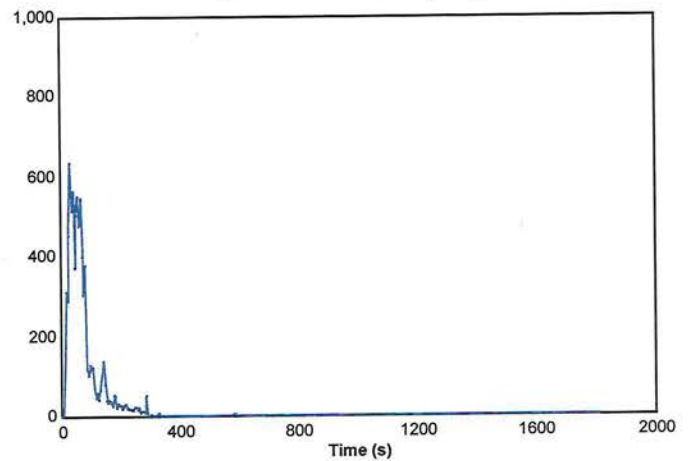
Effective heat of combustion (MJ/kg)



Smoke production rate (m<sup>2</sup>/s)



Specific extinction area (m<sup>2</sup>/kg)



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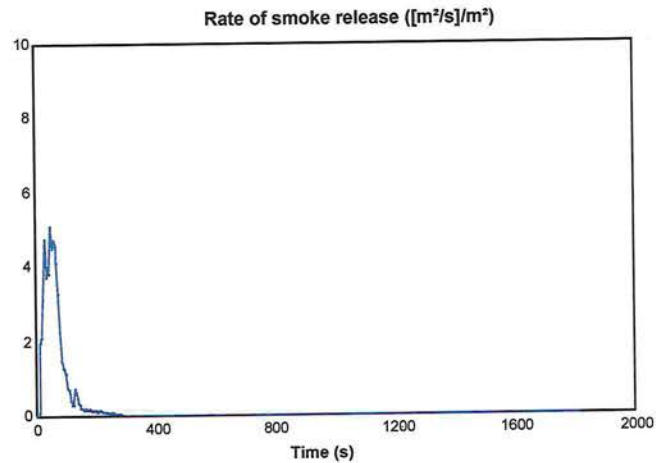
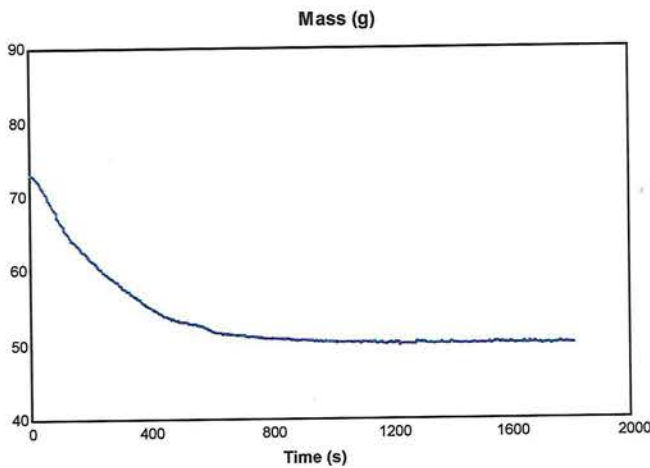
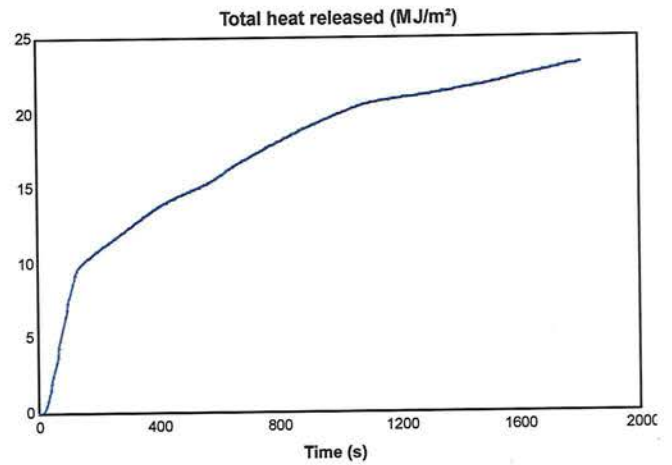
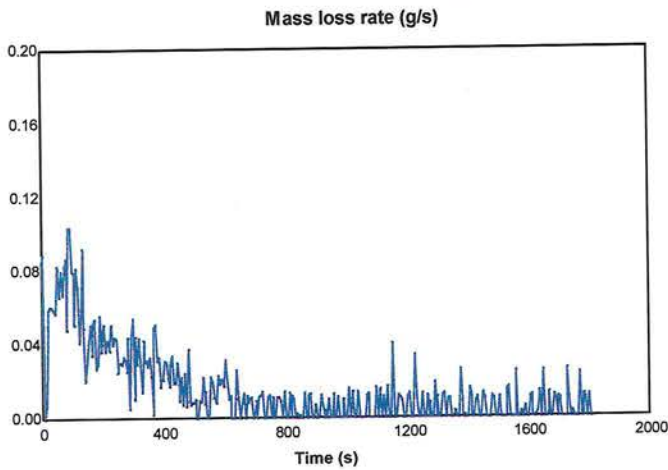
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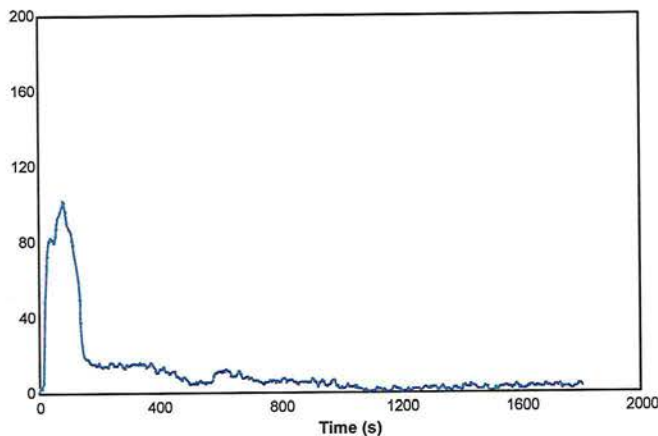
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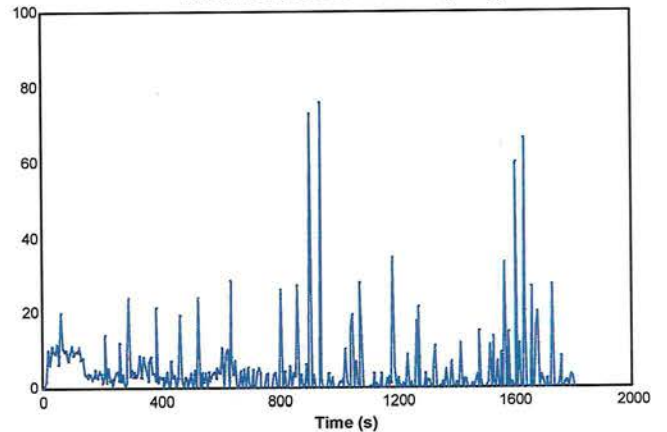
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Specimen : 3

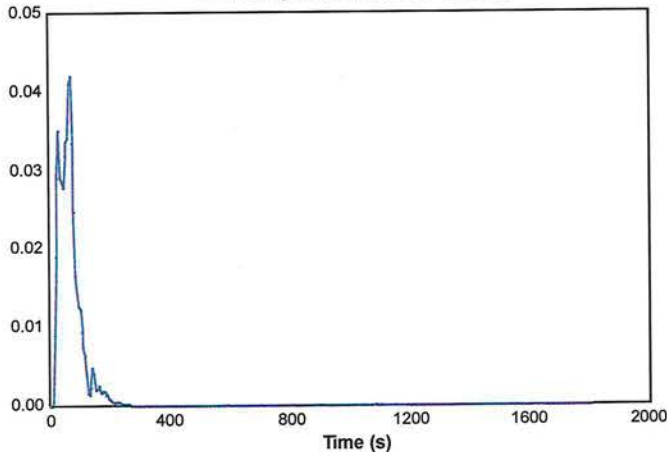
Heat release rate (kW/m<sup>2</sup>)



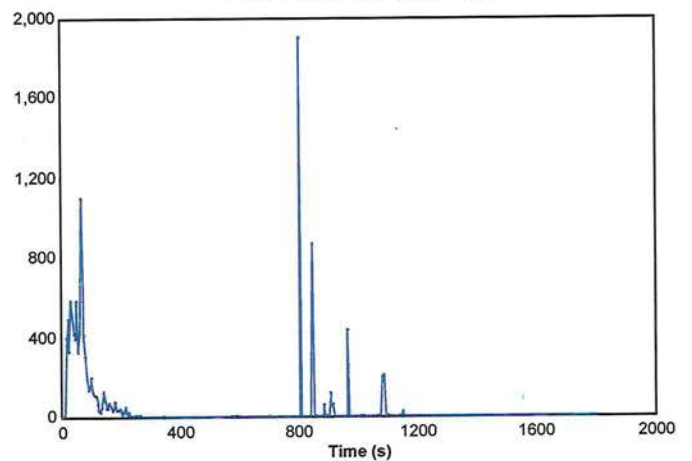
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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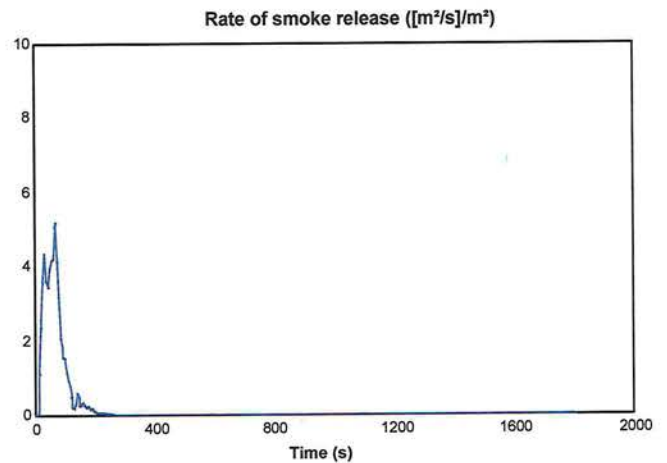
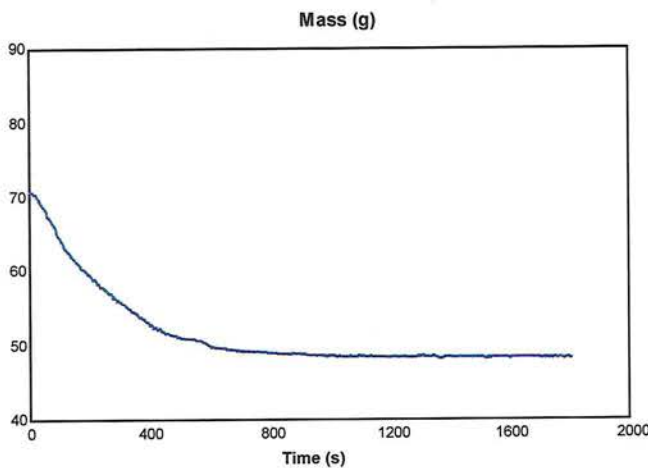
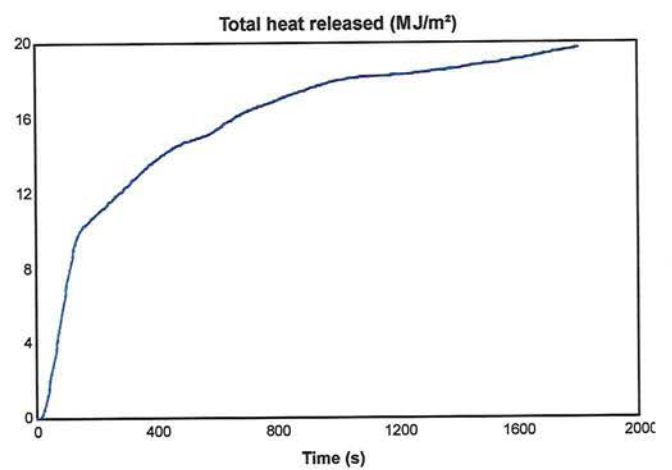
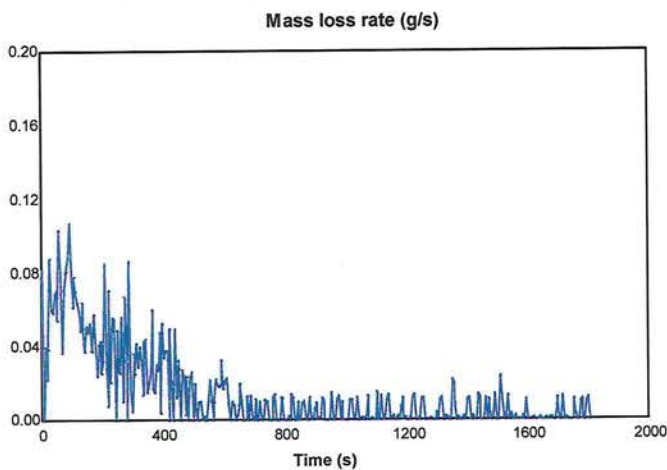
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