



## No. 1259527.8A

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.12.18

SAMPLE DESCRIPTION:  
Fabric Name – Quilted Momentum  
Nominal Composition – 100% Polyester  
Nominal Weight – 950g per lineal metre  
End Use – Panel & Upholstery  
Colour – Grey (top layer)

Client Order No.:

Client Reference:

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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)

Note: This test was sub-contracted (test number 18-007595).

#### Note: Tested as a composite

	Specimens			Mean
	1	2	3	
Average Heat Release	18.9	17.6	14.9	17.1 kW/m <sup>2</sup>
Average Specific Extinction Area	83.7	97.3	90.9	90.7 m <sup>2</sup> /kg
Group Number Classification				1S
(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				


Test Orientation: Horizontal

	Specimens			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> /sec.
Time to Sustained Flaming	77	60	64	67 sec.
Test Duration	1877	1860	1864	1867 sec.
Peak Heat Release After Ignition	153.7	143.3	139.4	145.5 kW/m <sup>2</sup>
Average Heat at 180 s	71.5	76.0	71.7	73.0 kW/m <sup>2</sup>
Average Heat at 300 s	58.1	63.0	57.0	59.3 kW/m <sup>2</sup>
Total Heat Released	34.4	31.7	26.8	31.0 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	17.0	14.1	12.4	14.5 MJ/kg
Initial Thickness	12	12	12	12 mm
Initial Mass	97.5	95.3	95.3	96.0 g
Mass at Sustained Flaming	95.9	94.7	94.6	95.1 g
Mass Remaining	80.3	77.2	77.6	78.5 g
Mass Loss	2083.8	2239.0	2187.7	2170.2 g/m <sup>2</sup>
Average Rate of Mass Loss	5.4	5.6	5.6	5.5 g/m <sup>2</sup> .s

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Signatory

  
C Judan  
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05/03/2019

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Total Smoke Production (non-flaming phase)	25.2	3.1	6.8	11.7 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	180.5	218.2	199.0	199.2 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	205.6	221.3	205.8	210.9 m <sup>2</sup> /m <sup>2</sup>
Specimen Surface Area	0.00810	0.00810	0.00810	- m <sup>2</sup>
C-Factor (Calibration Constant)	0.043238	0.043238	0.043238	-

Additional Observation 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 sole criterion for assessment of performance under real fire conditions.

Samples were loose laid onto a substrate of 6mm thick cement sheeting 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.

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

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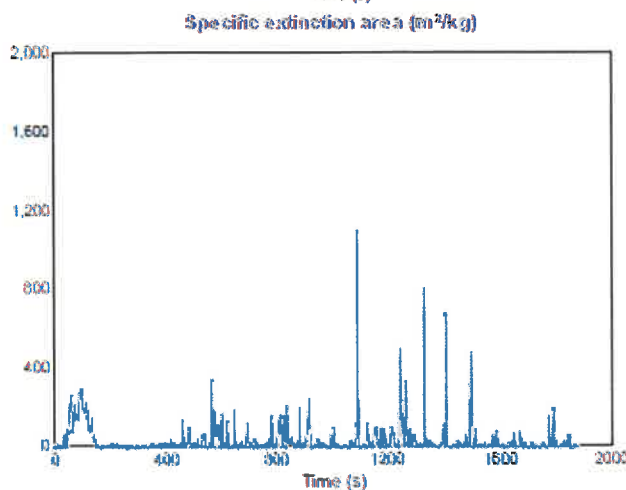
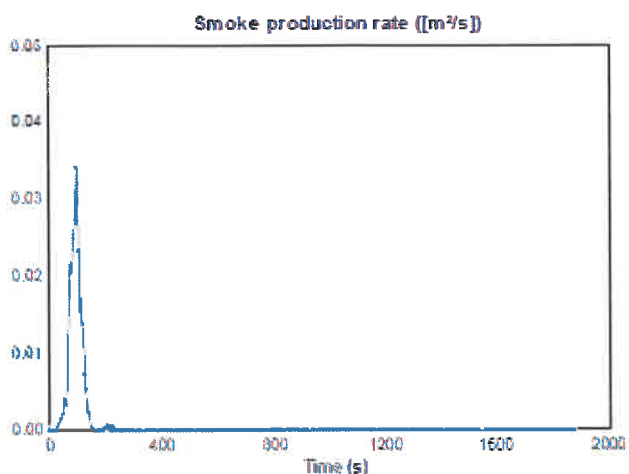
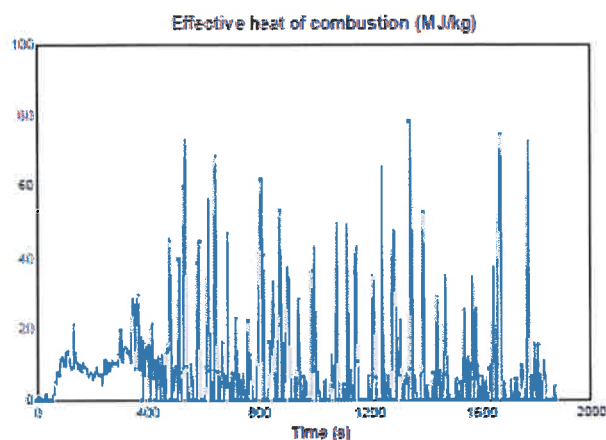
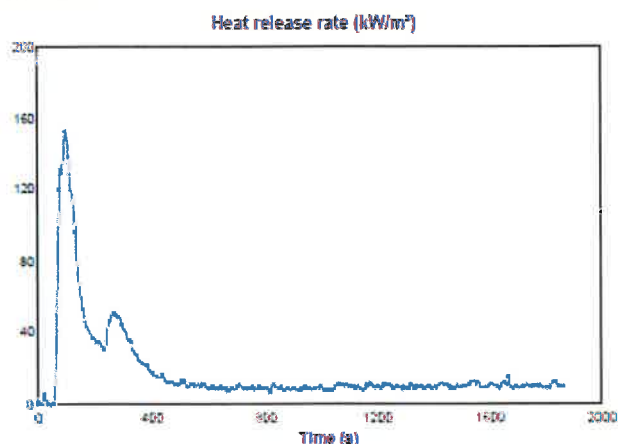
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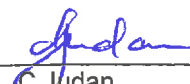
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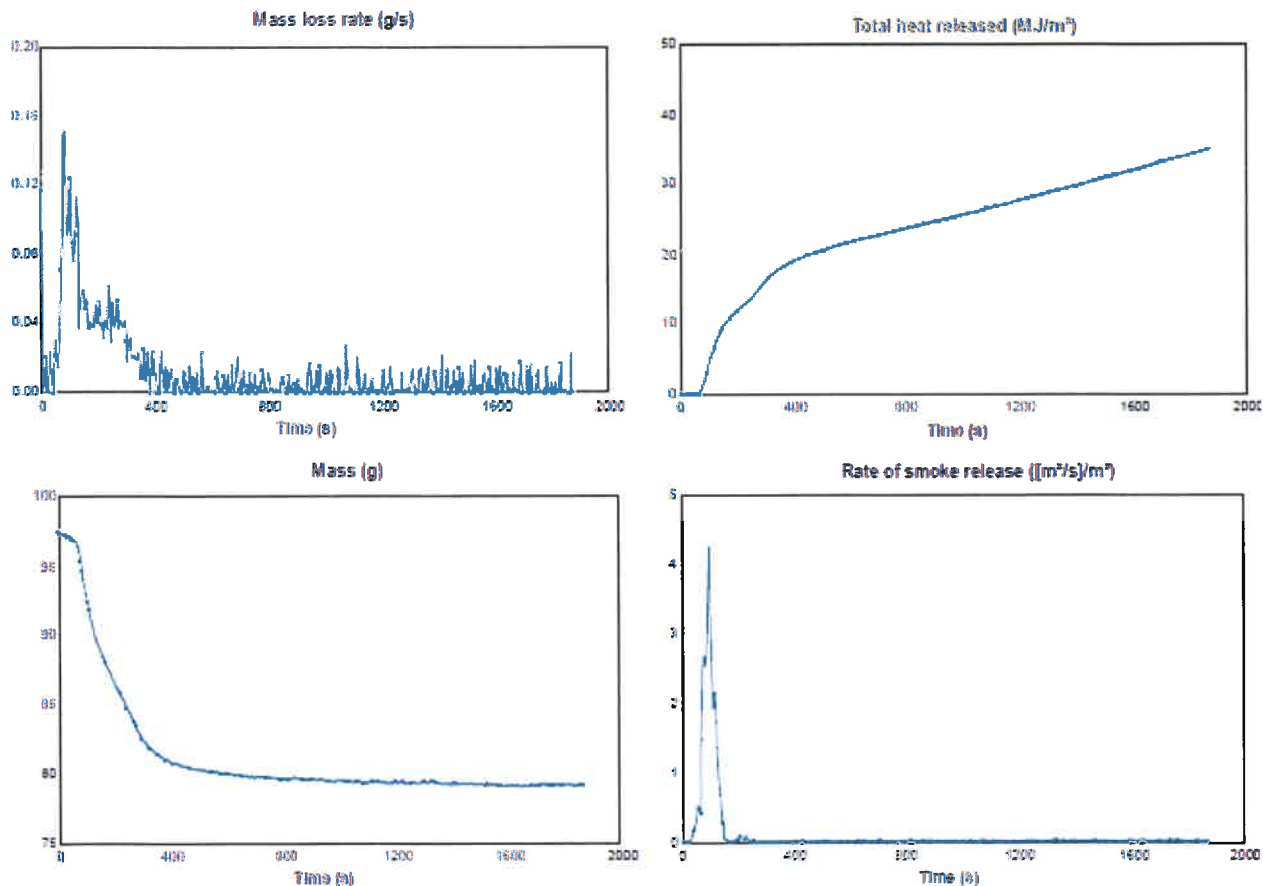
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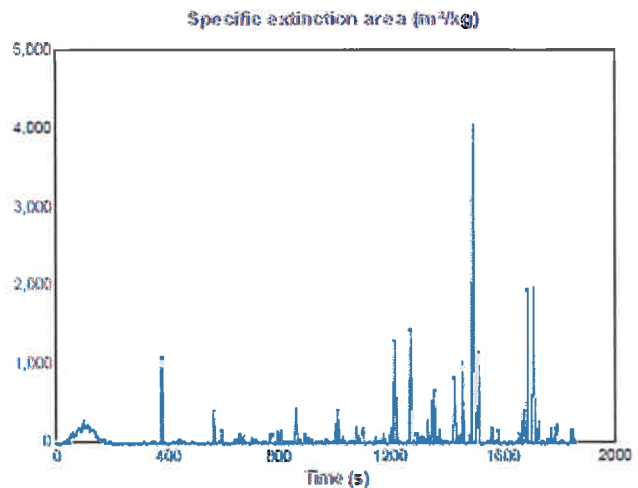
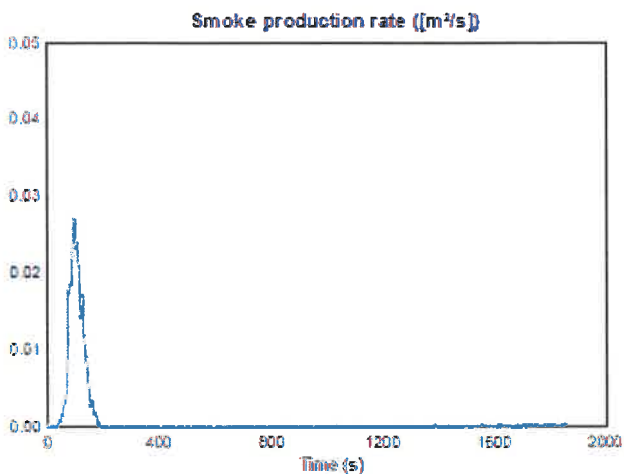
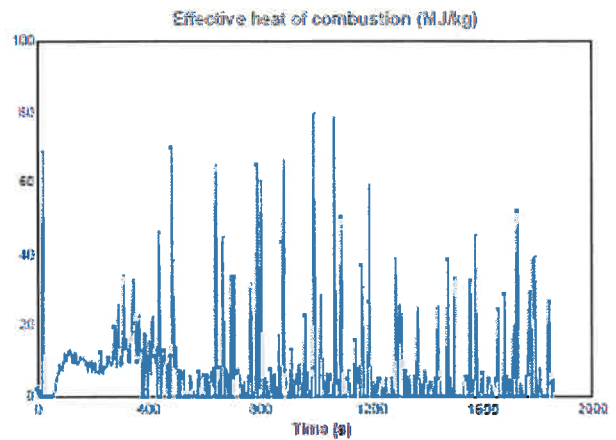
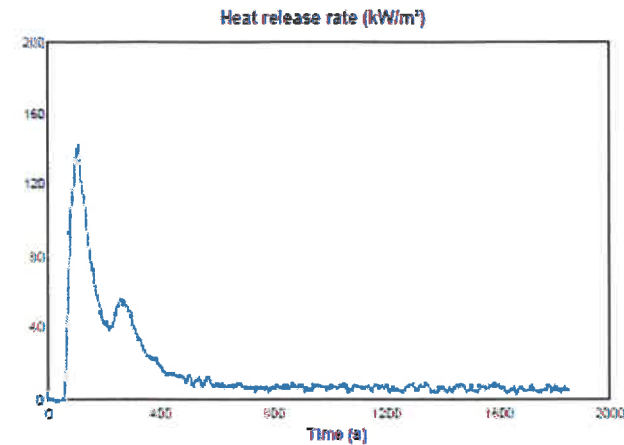
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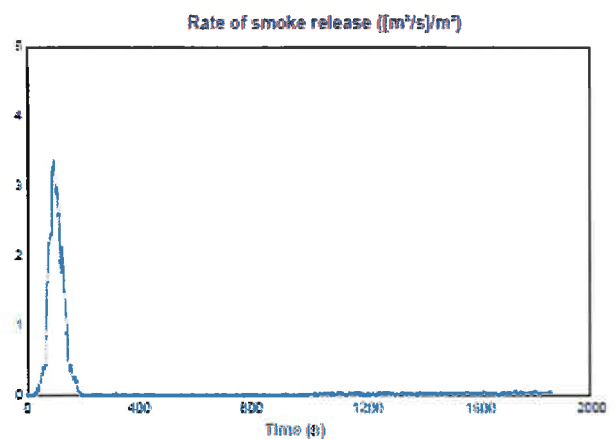
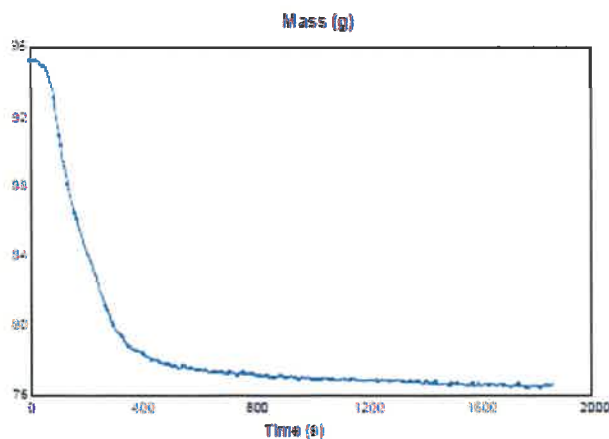
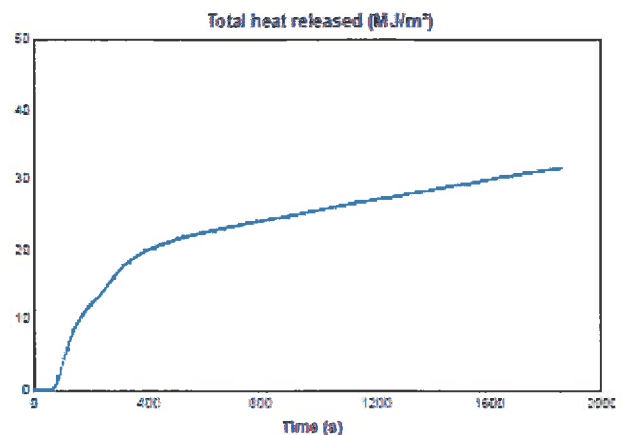
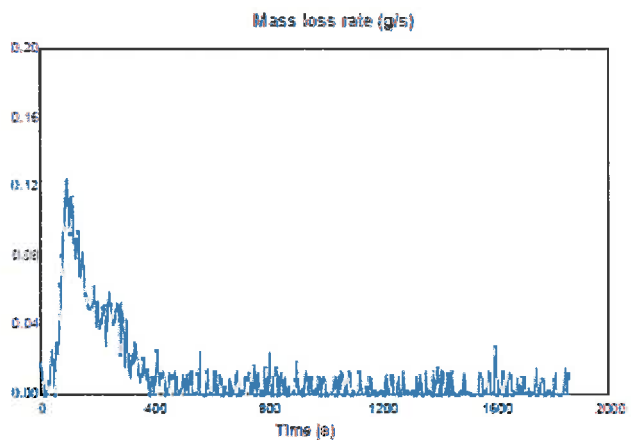
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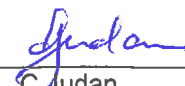
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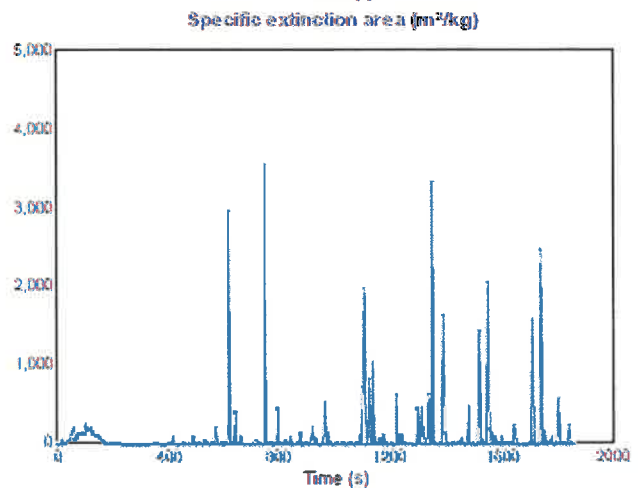
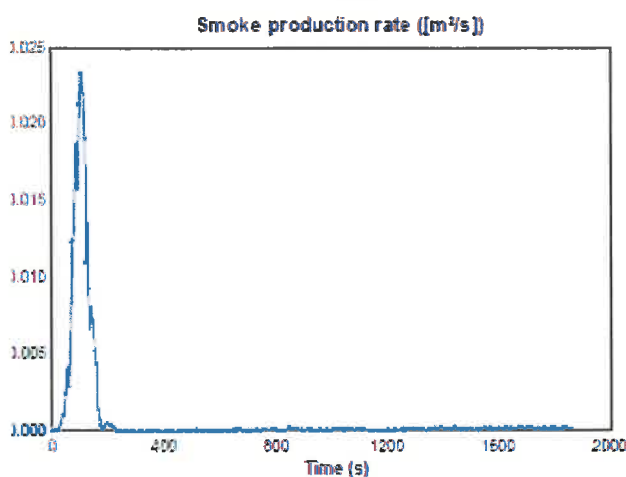
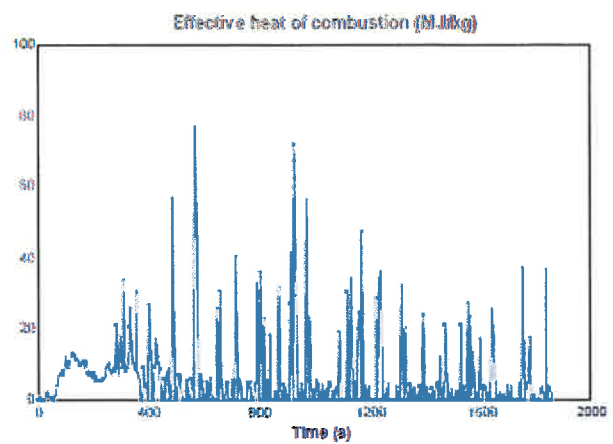
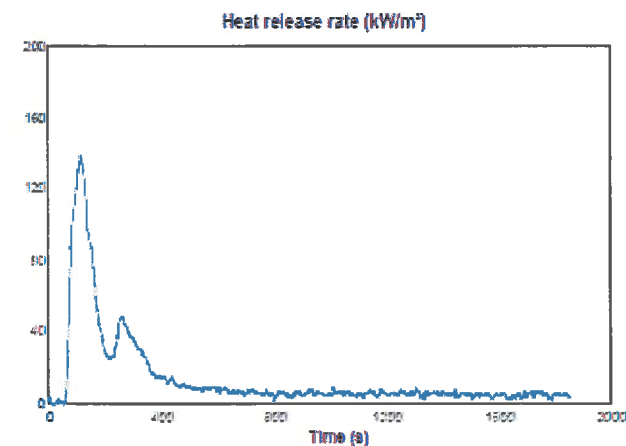
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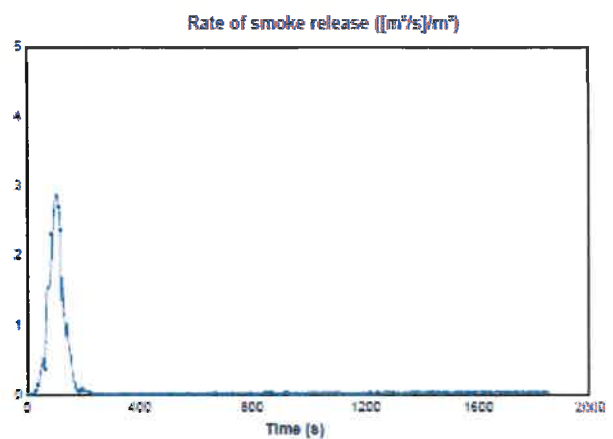
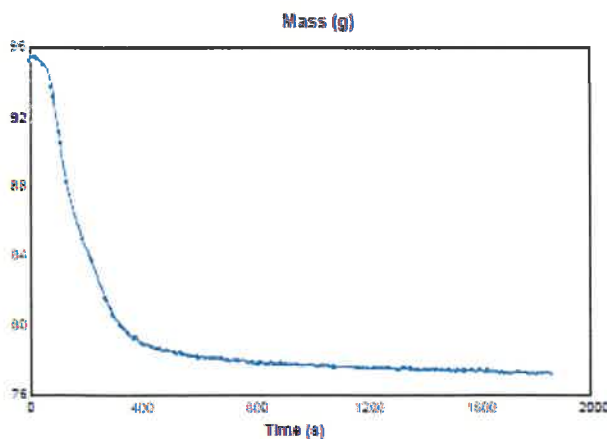
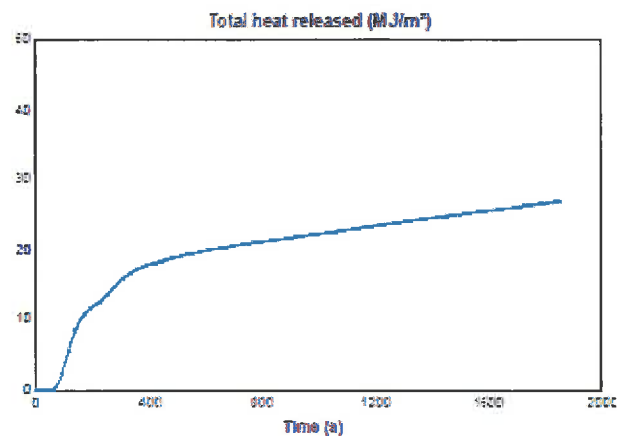
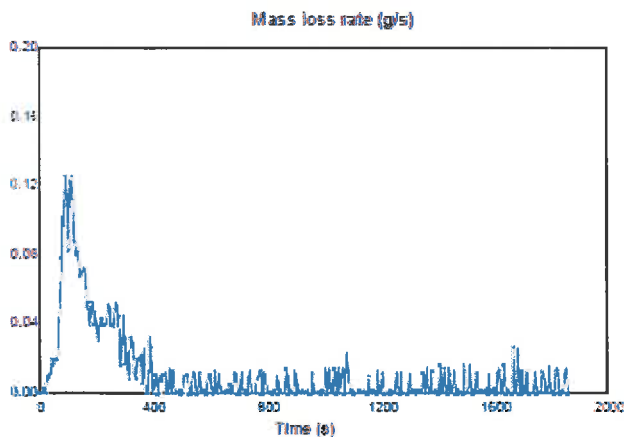
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