

# No. 1467991.4B

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 13.7.23
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Green upholstery fabric – Replay Nominal Composition – 100% Pot-Consumer Recycled Polyester Nominal Weight – 532g/lin.m End Use – Soft & Task Seating & Panels	

Client Order No.: Client Reference: 1 of 9

**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 23-002857).

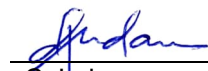
	Specimens			Mean
	1	2	3	
Average Heat Release Rate	6.5	6.3	8.0	6.9 kW/m <sup>2</sup>
Average Specific Extinction Area	91.3	98.3	111.7	100.4 m <sup>2</sup> /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				<b>1S</b>

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	67	67	72	69 sec.
Test Duration	1867	1867	1872	1869 sec.
Peak Heat Release After Ignition	274.4	256.3	285.3	272.0 kW/m <sup>2</sup>
Average Heat at 180 s	58.6	54.1	59.7	57.5 kW/m <sup>2</sup>
Average Heat at 300 s	37.5	34.1	38.8	36.8 kW/m <sup>2</sup>
Total Heat Released	14.0	12.8	14.9	13.9 MJ/m <sup>2</sup>
Average Effective Heat of Combustion	5.4	5.4	6.5	5.7 MJ/kg
Initial Thickness	11	11	11	11 mm
Initial Mass	64.4	65.3	67.4	65.7 g
Mass at Sustained Flaming	63.7	64.3	66.4	64.8 g
Mass Remaining	46.5	48.2	49.4	48.0 g
Mass Loss	2208.3	2111.4	2222.8	2180.8 g/m <sup>2</sup>
Average Rate of Mass Loss	1.2	1.2	1.2	1.2 g/m <sup>2</sup> .s

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C Judan  
Key Technical Person

31/07/2023

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Total Smoke Production (non-flaming phase)	8.3	11.3	16.3	12.0 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	242.4	256.2	262.4	253.7 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	250.7	267.5	278.7	265.7 m <sup>2</sup> /m <sup>2</sup>
C-Factor (Calibration Constant)	0.040559	0.040559	0.040559	-
Additional Observation:	None			
Difficulties Encountered During Testing:	None			

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

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.

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

Samples were loose laid onto a substrate of 10mm thick plasterboard prior to testing.

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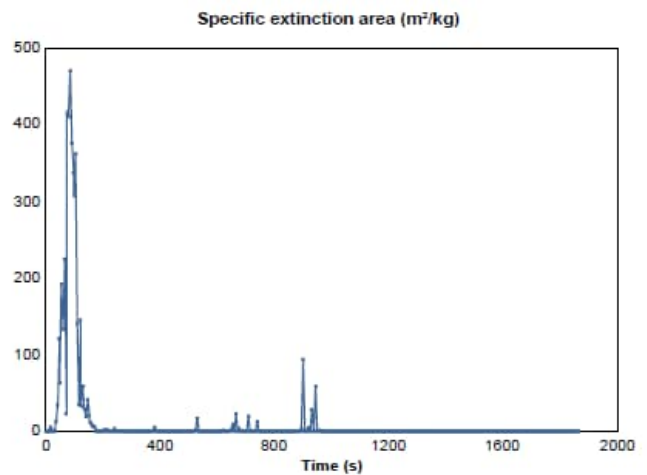
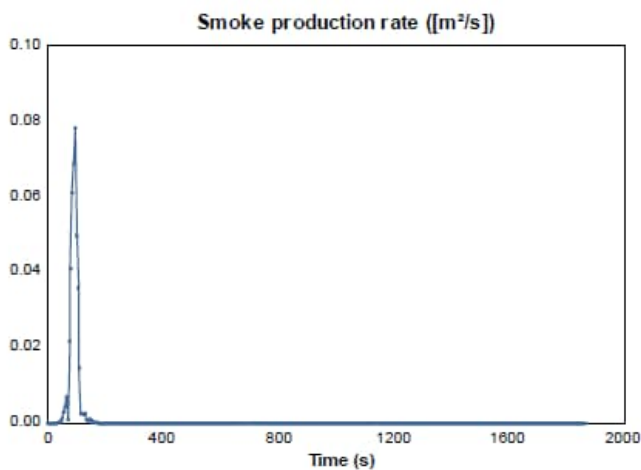
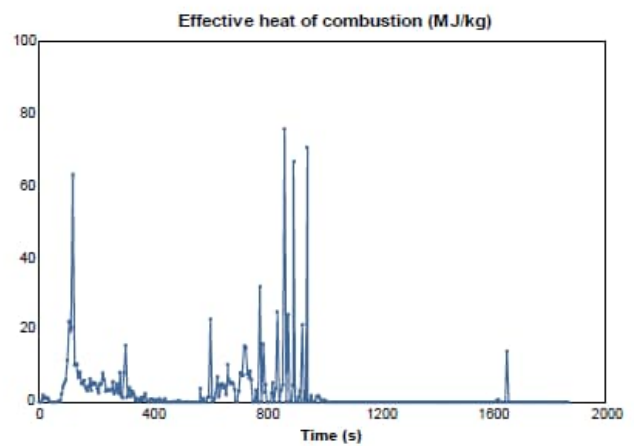
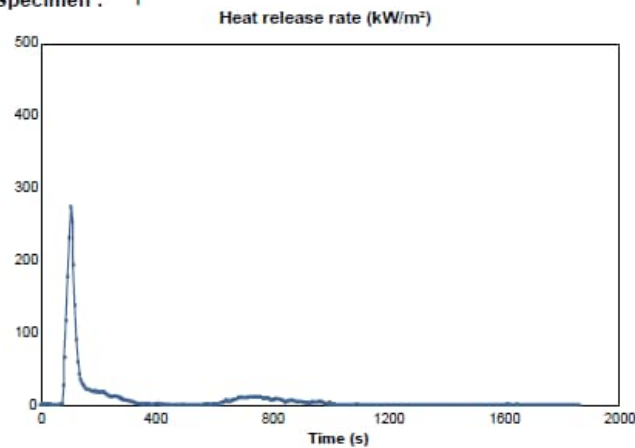
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Specimen : 1



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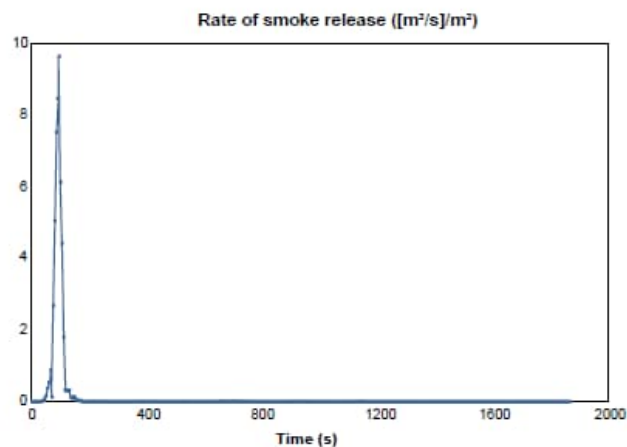
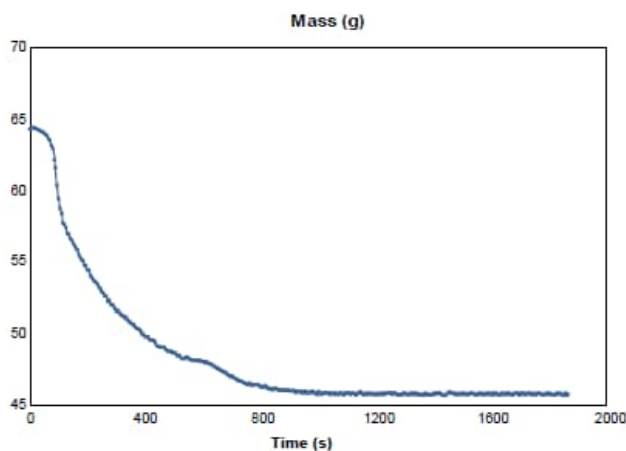
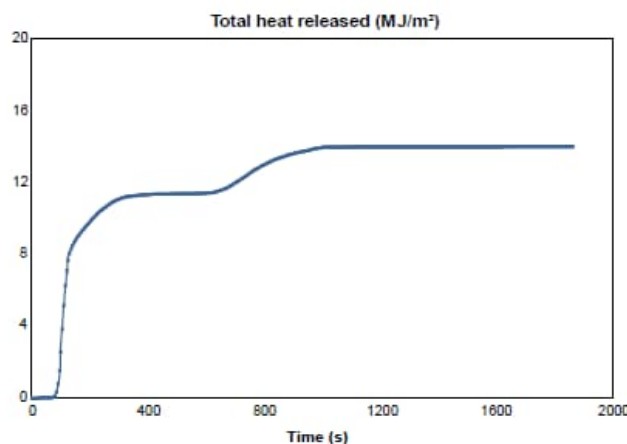
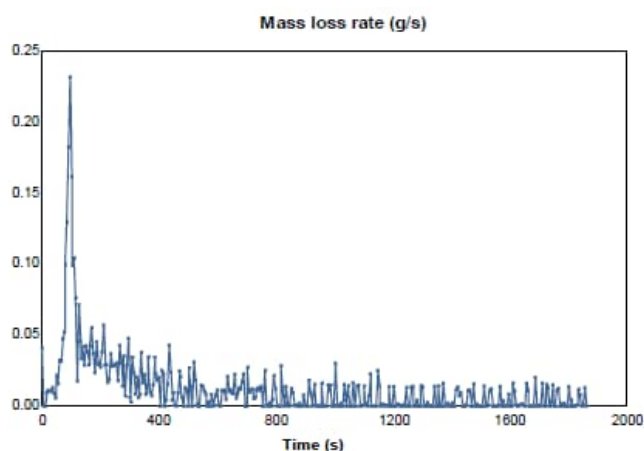
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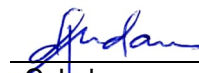
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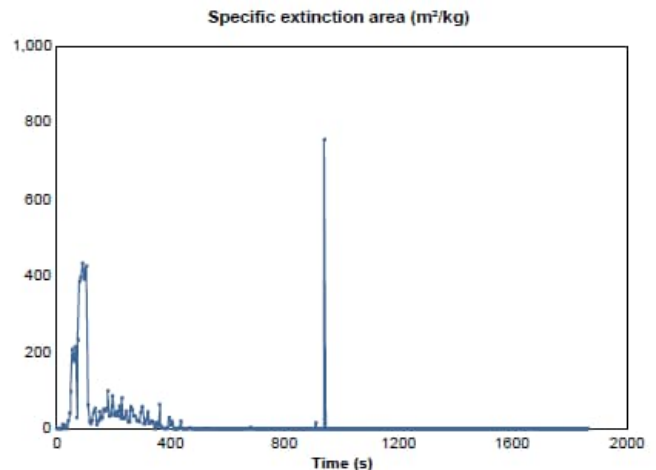
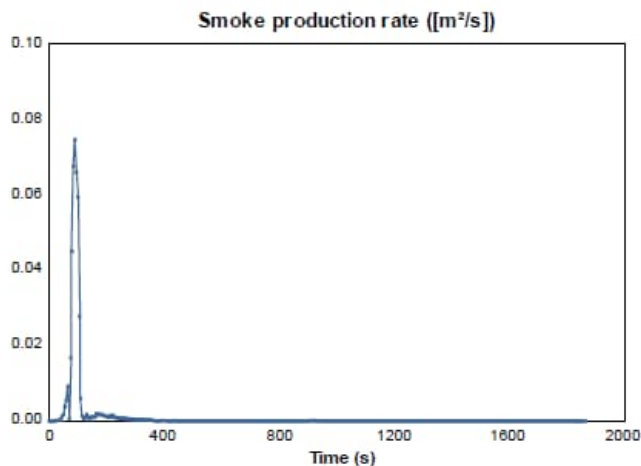
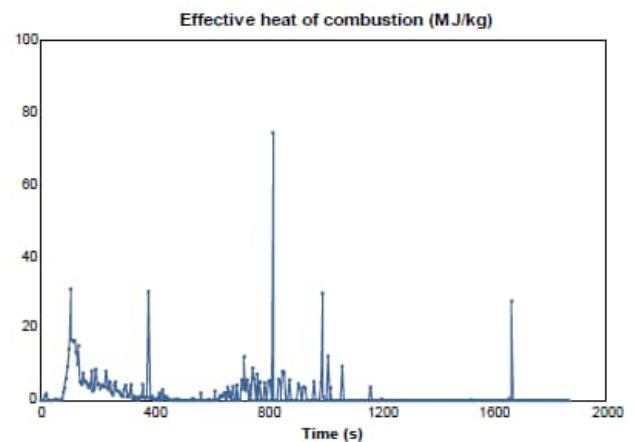
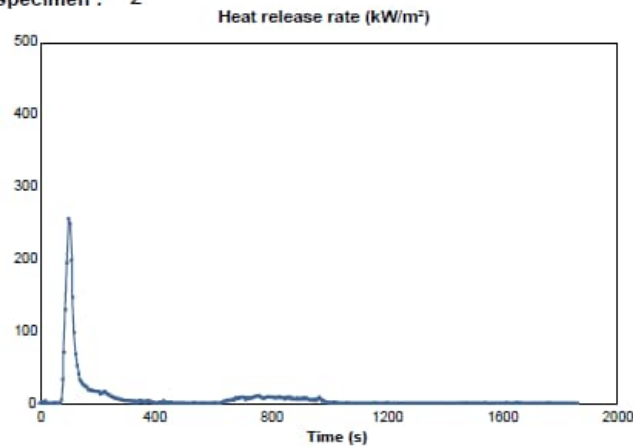
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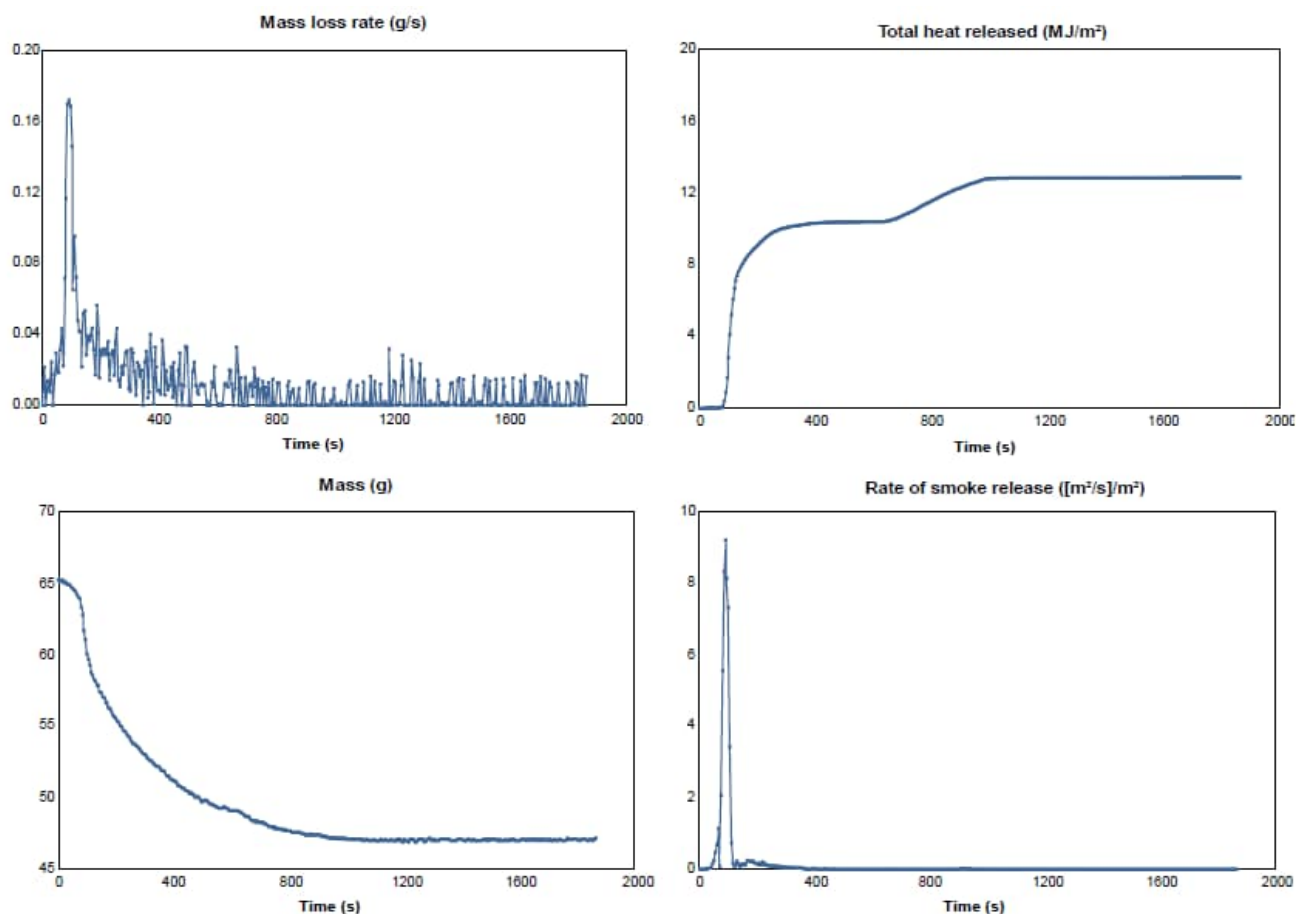
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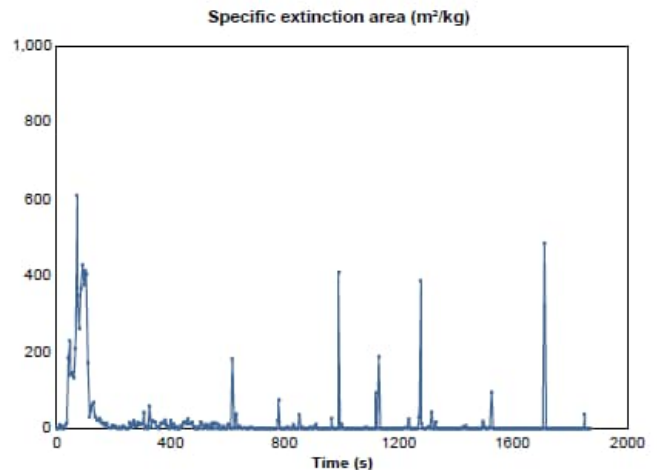
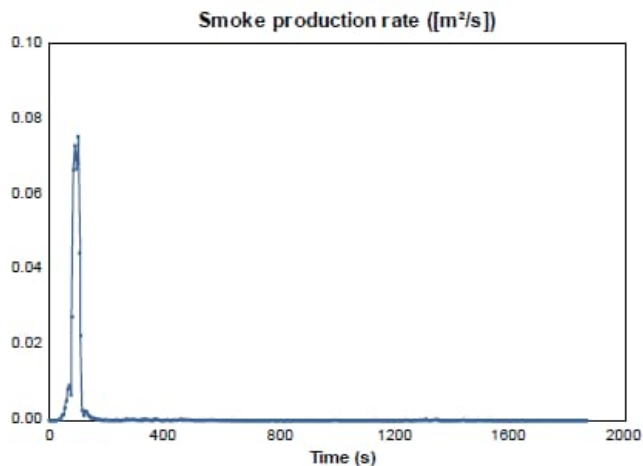
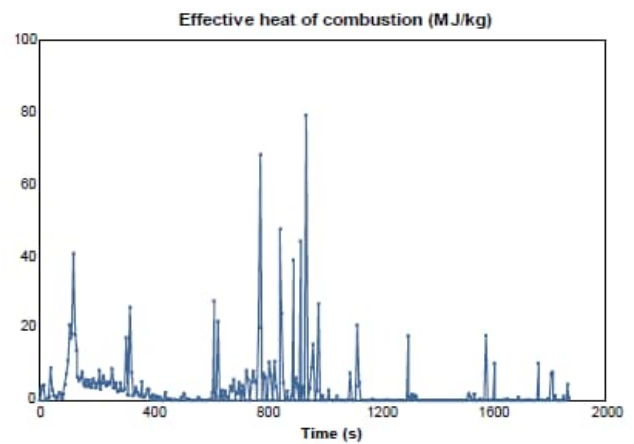
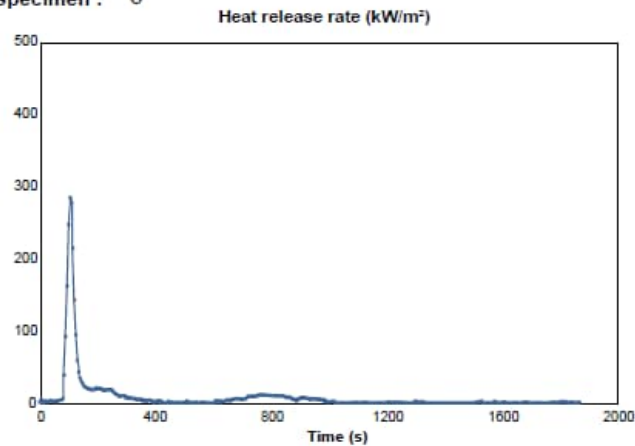
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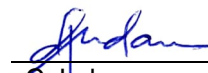
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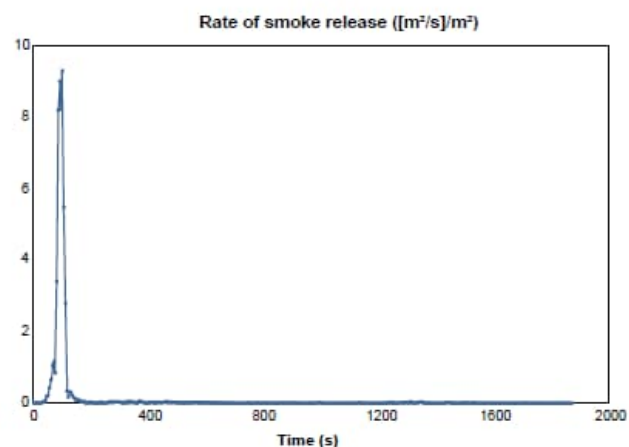
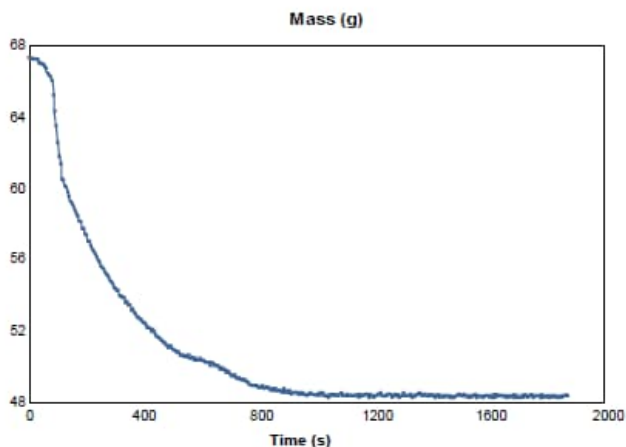
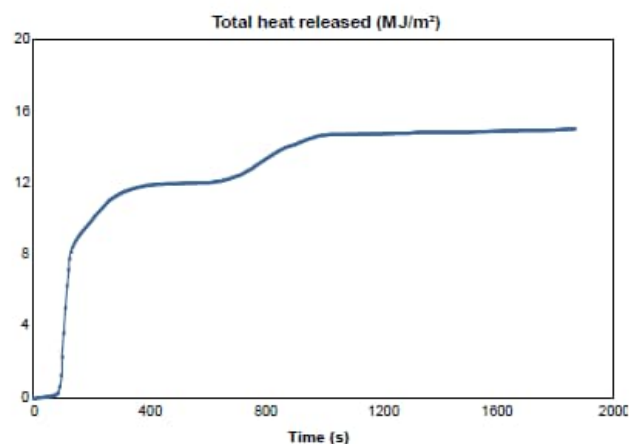
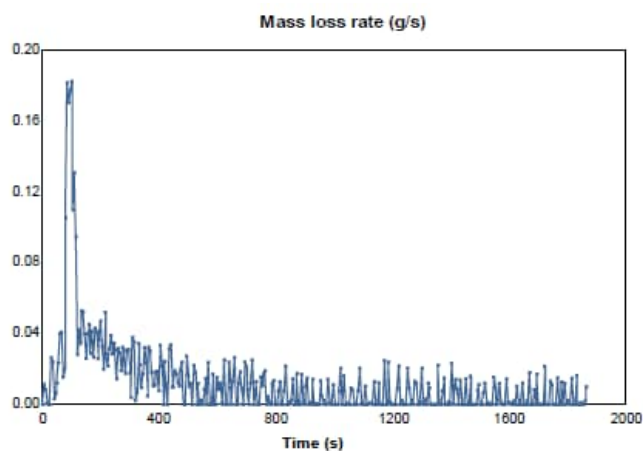
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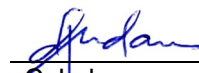
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