

# No. 1520863.0A

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 3.7.24
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Blue woven fabric – X2 Nominal Composition – 100% FR Polyester Nominal Weight – 435 grammes per lineal meter End use - Upholstery	

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)**

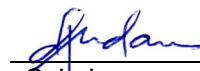
Note: This test was sub-contracted (Test No. 24-002567).

	Specimens			
	1	2	3	Mean
Average Heat Release Rate	16.5	13.2	8.6	12.8 kW/m <sup>2</sup>
Average Specific Extinction Area	17.7	115.0	131.5	88.1 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>

	Specimens			
	1	2	3	Mean
Test Orientation: Horizontal				
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	99	120	82	100 sec.
Test Duration	1899	1920	1882	1900 sec.
Peak Heat Release After Ignition	167.4	173.2	115.0	151.9 kW/m <sup>2</sup>
Average Heat at 180 s	44.9	50.8	46.6	47.4 kW/m <sup>2</sup>
Average Heat at 300 s	32.5	36.6	33.0	34.0 kW/m <sup>2</sup>
Total Heat Released	29.7	23.7	15.6	23.0 MJ/m <sup>2</sup>
Average Effective Heat of Combustion	18.2	15.0	9.4	14.2 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	87.6	90.3	87.1	88.3 g
Mass at Sustained Flaming	84.9	86.8	85.6	85.8 g
Mass Remaining	74.2	77.5	73.4	75.0 g
Mass Loss	1651.7	1582.7	1694.3	1642.9 g/m <sup>2</sup>
Average Rate of Mass Loss	0.9	0.9	0.9	0.9 g/m <sup>2</sup> .s

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C Judan  
Key Technical Person

29/07/2024

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Total Smoke Production (non-flaming phase)	28.8	75.4	12.2	38.8 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	173.4	185.8	222.4	193.9 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	202.2	261.2	234.6	232.7 m <sup>2</sup> /m <sup>2</sup>
C-Factor (Calibration Constant)	0.0431	0.0431	0.0431	-

Additional Observation: Nil  
Difficulties Encountered During Testing: Nil

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

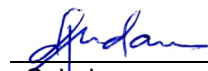
Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Retainer grid was used to contain the test specimen 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.

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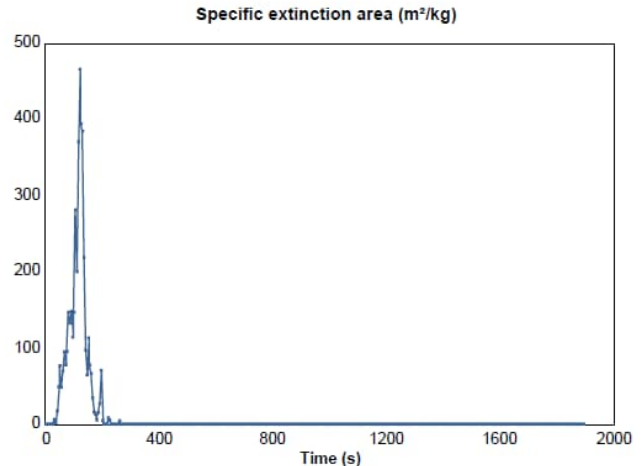
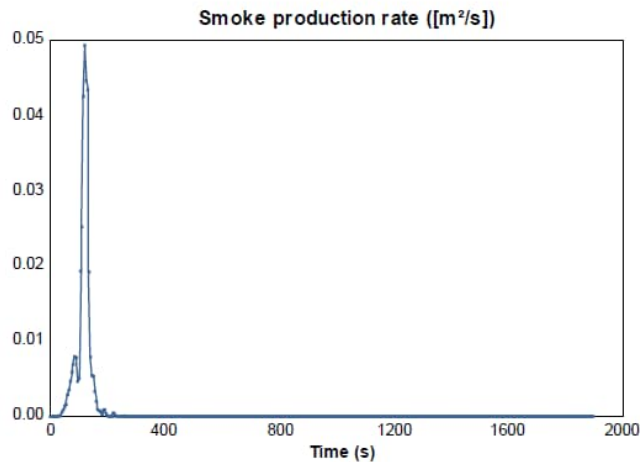
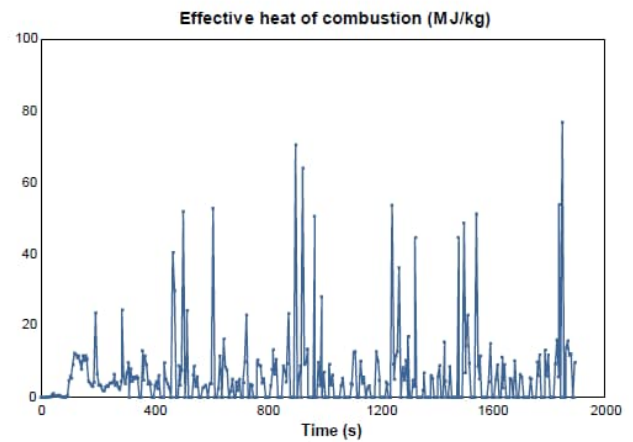
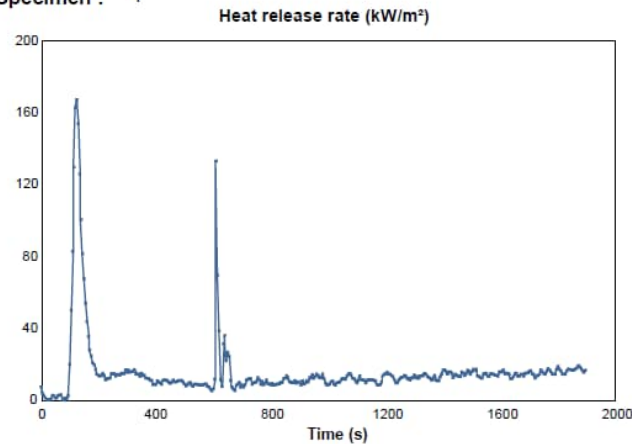
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Specimen : 1



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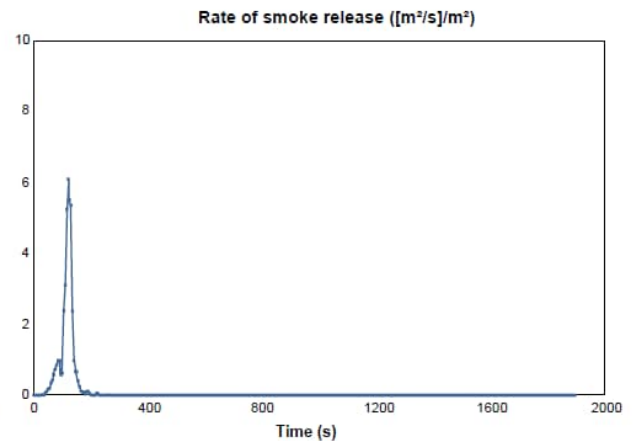
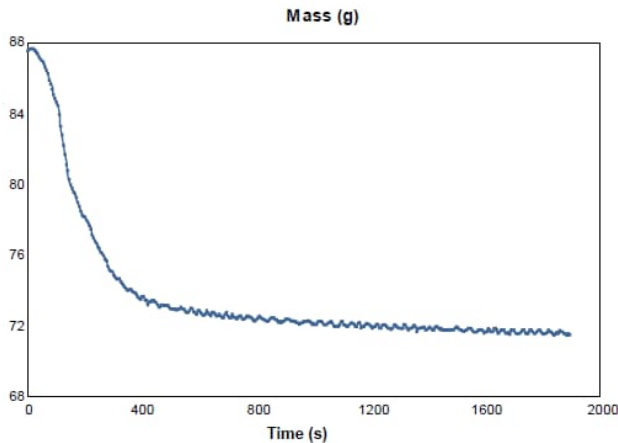
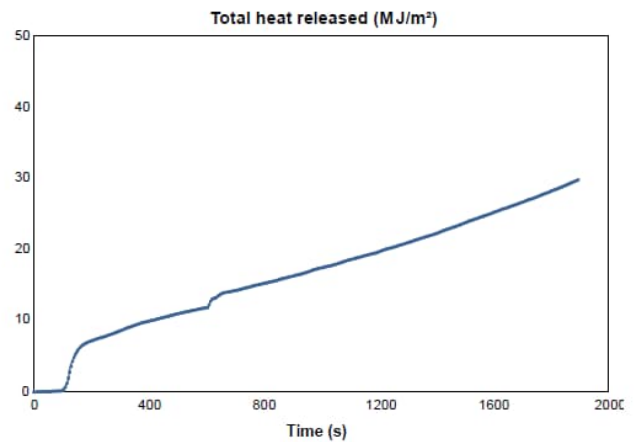
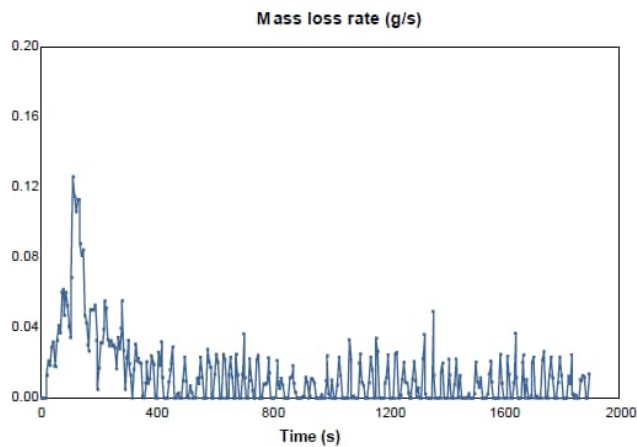
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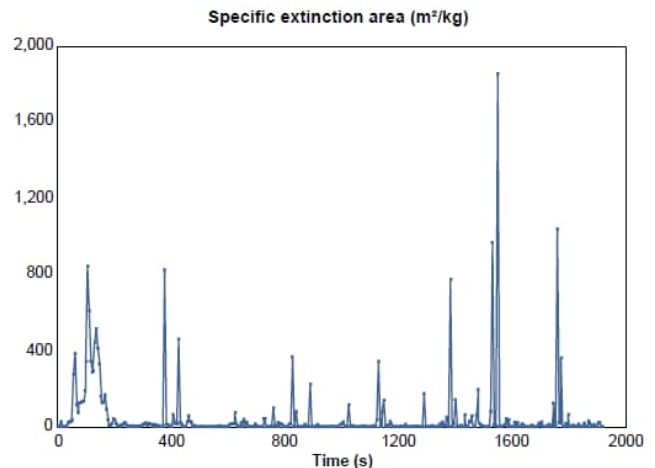
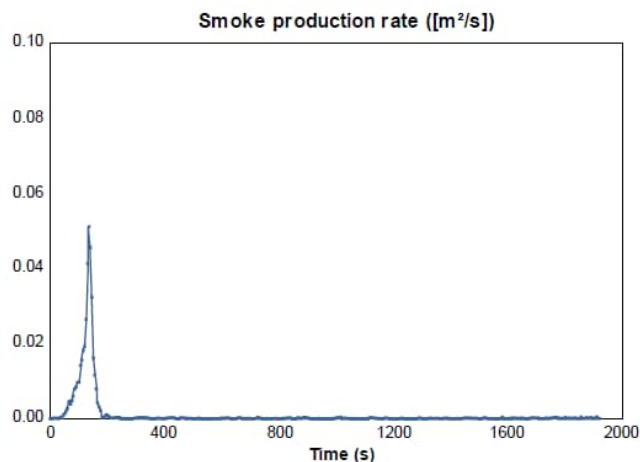
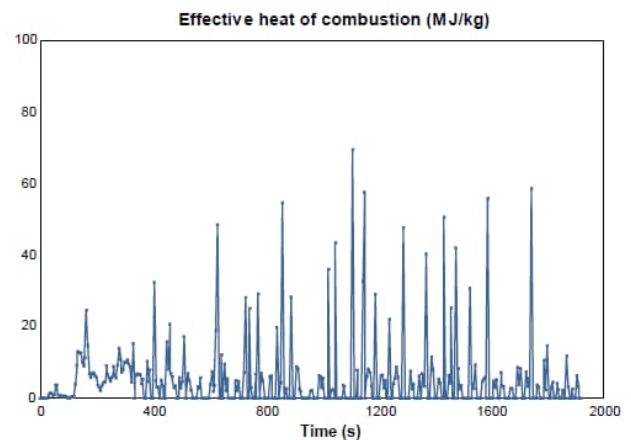
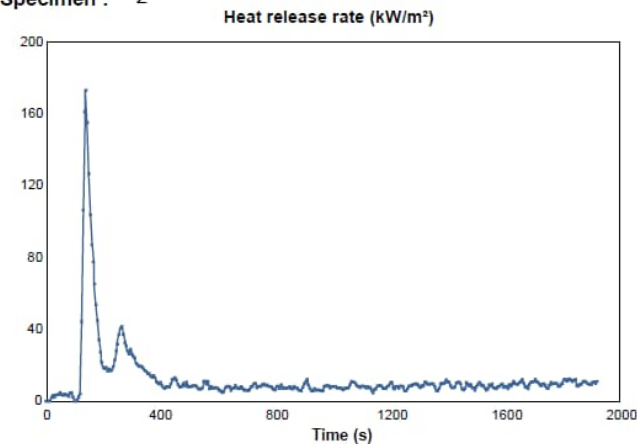
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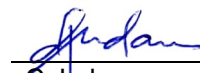
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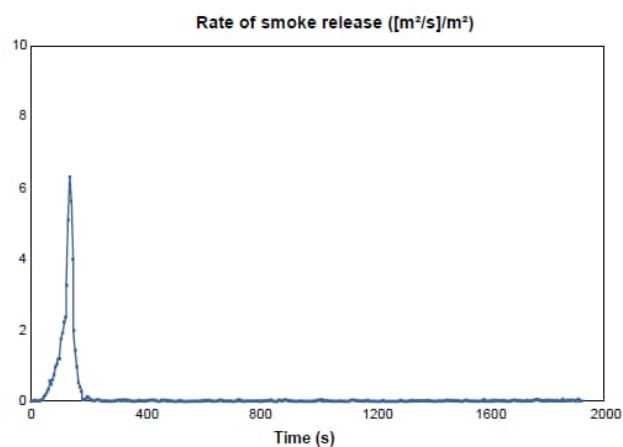
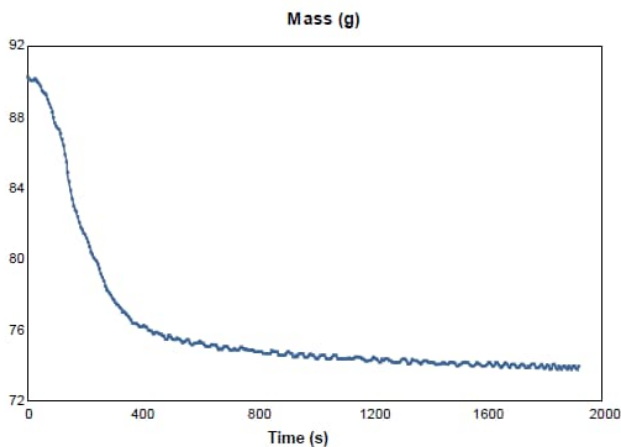
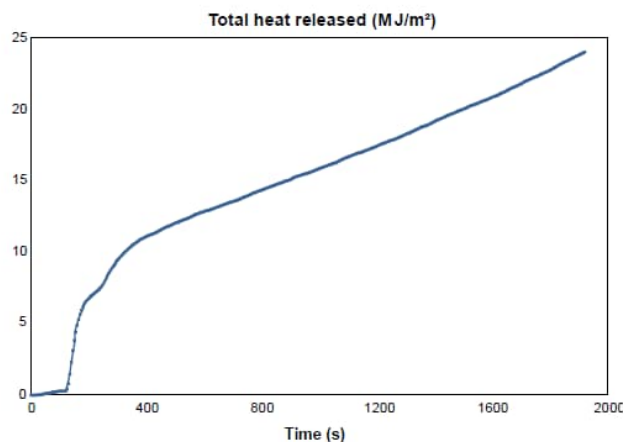
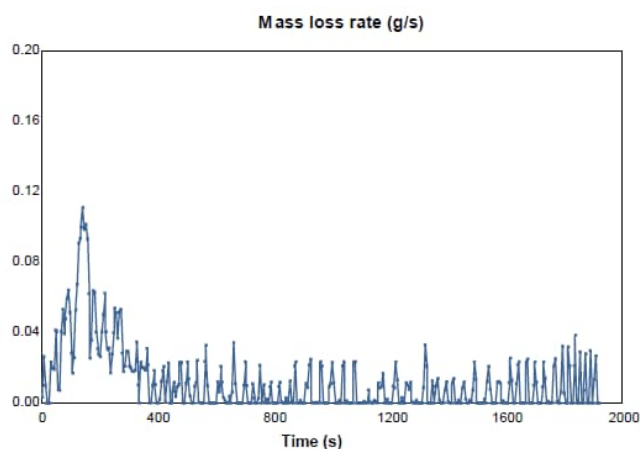
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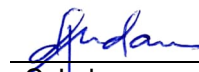
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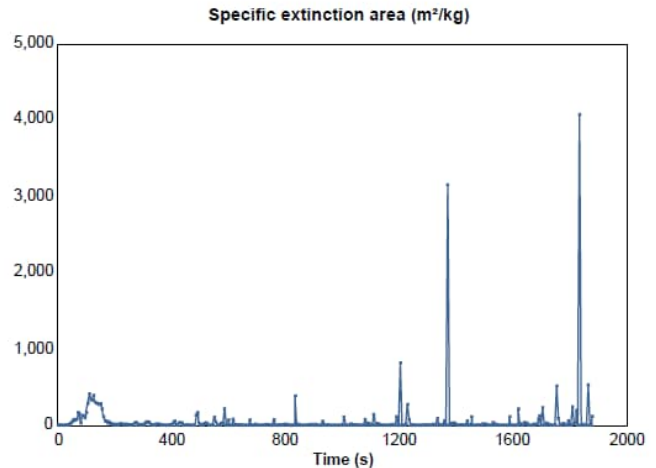
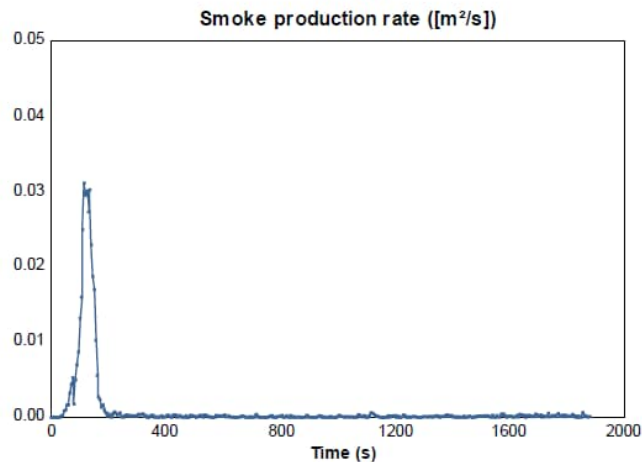
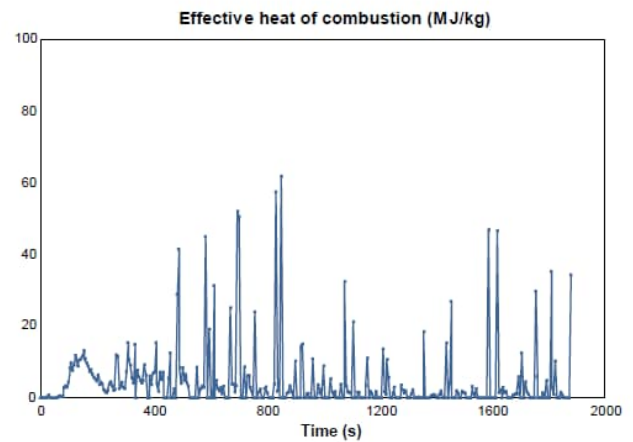
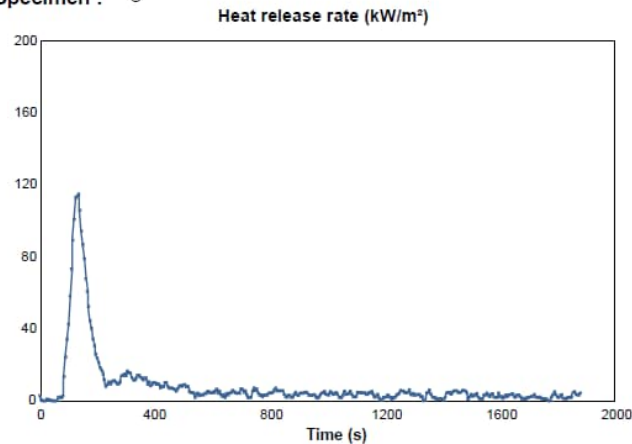
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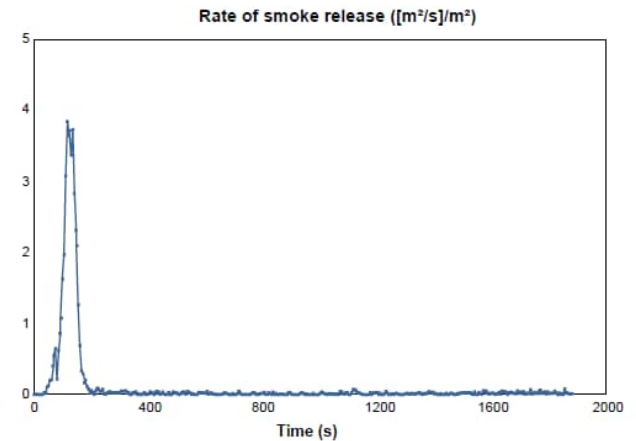
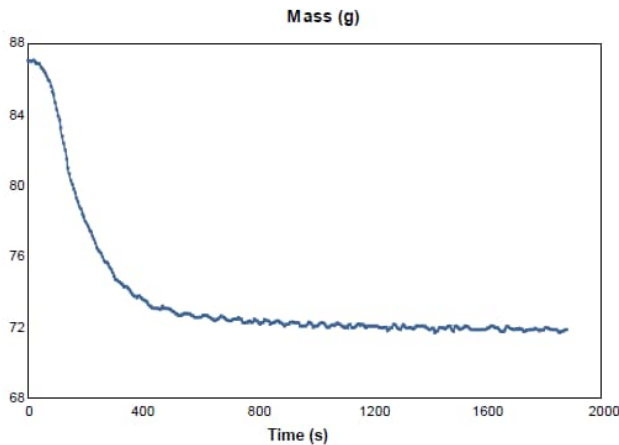
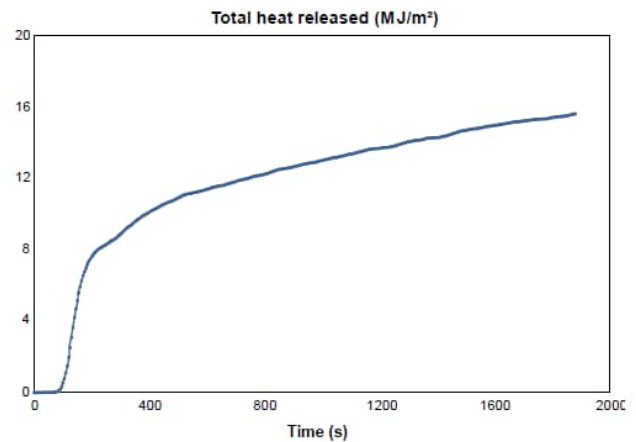
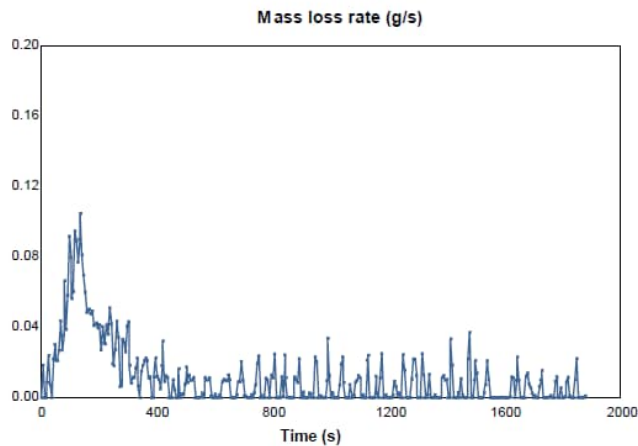
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