

# No. 1520863.0B

(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

## AS/NZS 3837-1998 – METHOD OF TEST FOR HEAT AND SMOKE RELEASE RATES FOR MATERIALS AND PRODUCTS USING OXYGEN CONSUMPTION CALORIMETER

Note: This test was sub-contracted (Test No. 24-002564).

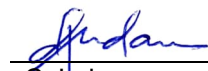
	Specimens			Mean
	1	2	3	
Average Heat Release Rate:	37.1	35.7	35.8	36.2 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	126.9	121.8	141.5	130.0 m <sup>2</sup> /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				1

	Specimens			Mean
Test Orientation: Horizontal	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	99	120	82	100 sec.
Test Duration	342	430	349	374 sec.
Peak Heat Release After Ignition	167.4	173.2	115.0	151.9 kW/m <sup>2</sup>
Average Heat at 60 s	100.8	98.3	77.1	92.0 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	n/a	36.6	n/a	n/a kW/m <sup>2</sup>
Total Heat Released	9.1	11.1	9.5	9.9 MJ/m <sup>2</sup>
Average Effective Heat of Combustion	7.0	8.3	6.9	7.4 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	87.6	90.3	87.1	88.3 g
Mass Remaining	76.9	79.5	75.8	77.4 g
Mass Percentage Pyrolysed	12.2	12.0	13.0	12.4 %
Mass Loss	1.3	1.3	1.4	1.4 kg/m <sup>2</sup>
Average Rate of Mass Loss	5.3	4.3	5.2	5.0 g/m <sup>2</sup> .s

Additional Observations: Nil  
Difficulties Encountered During Testing: Nil

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C Judan  
Key Technical Person

29/07/2024

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

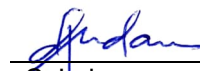
Retainer grid was used to contain the test specimen within the sample holder.

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.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

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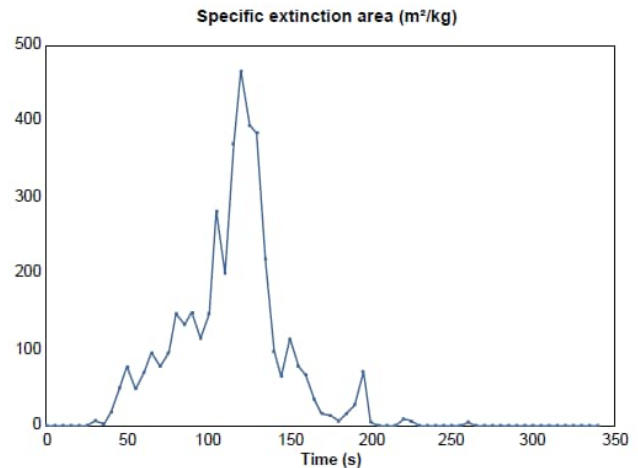
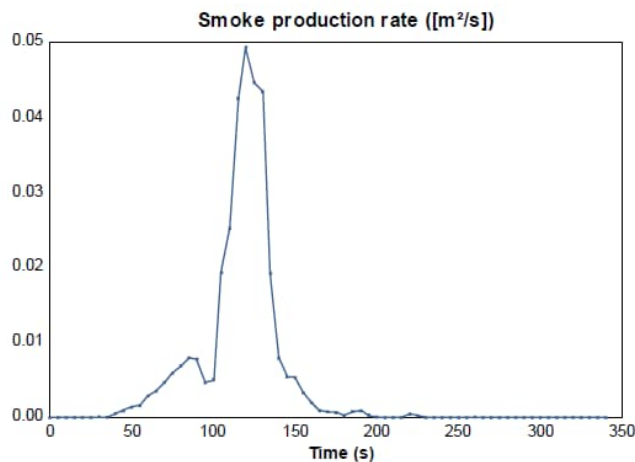
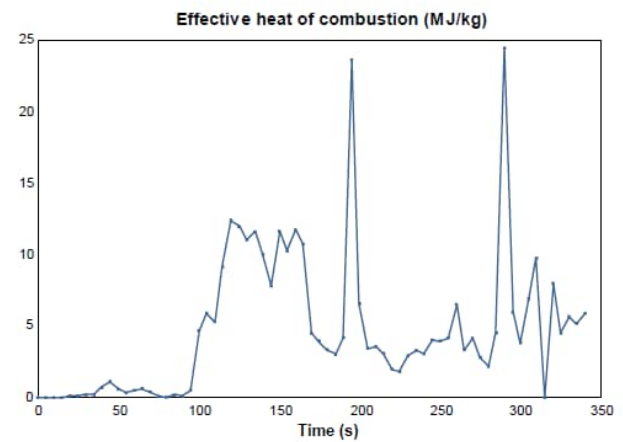
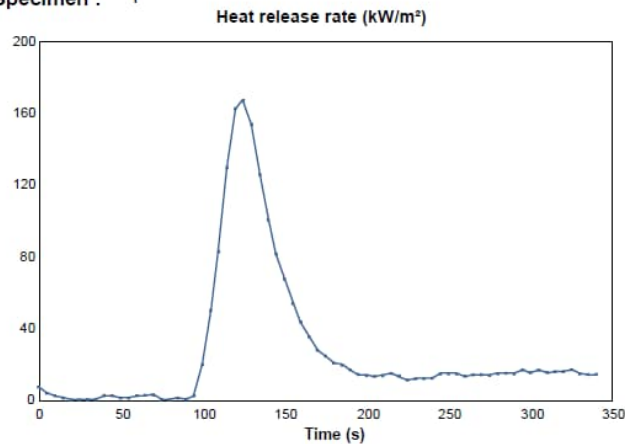
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Specimen : 1



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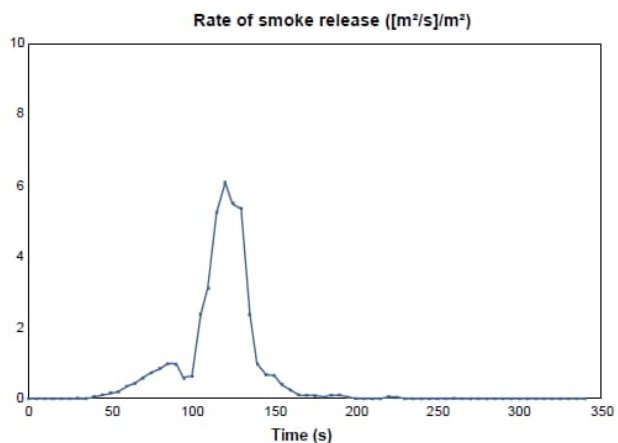
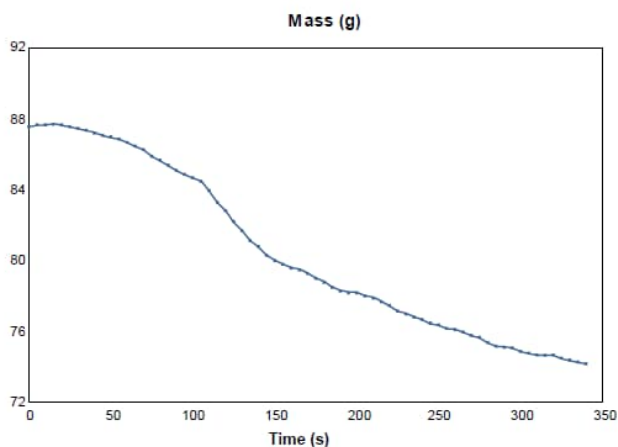
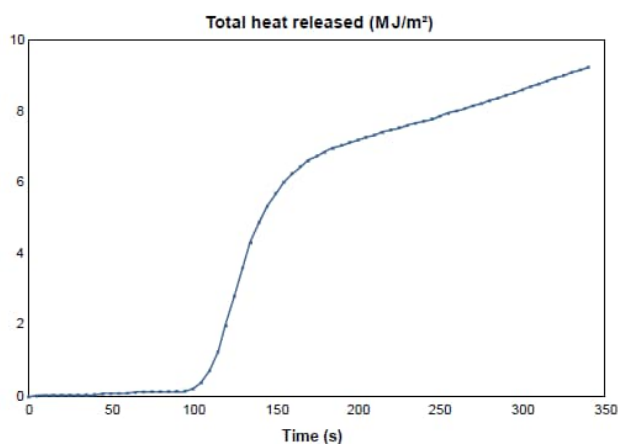
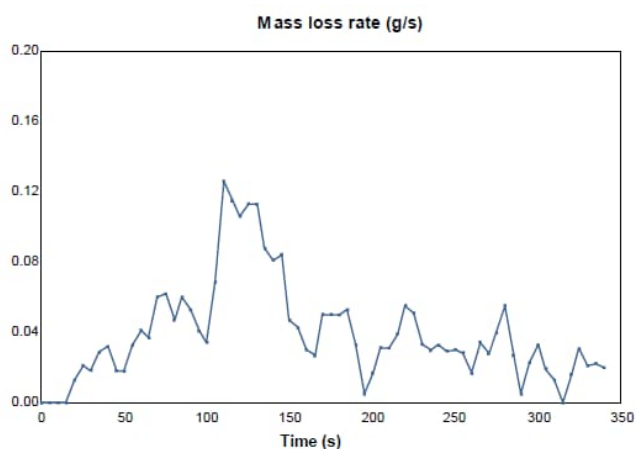
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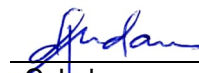
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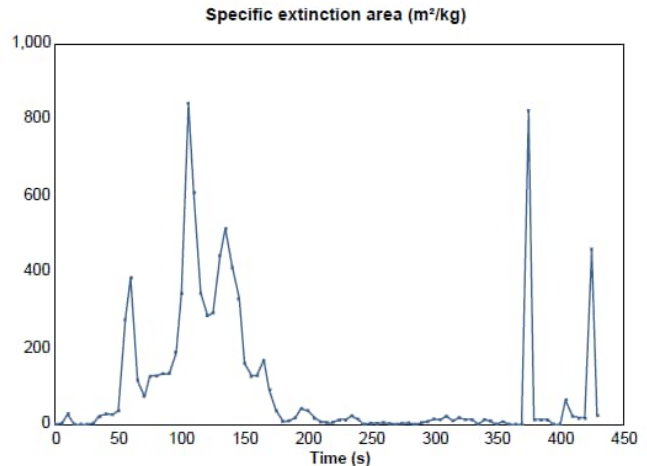
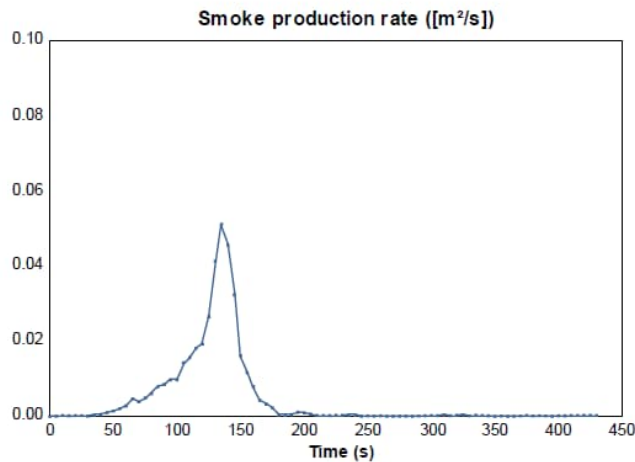
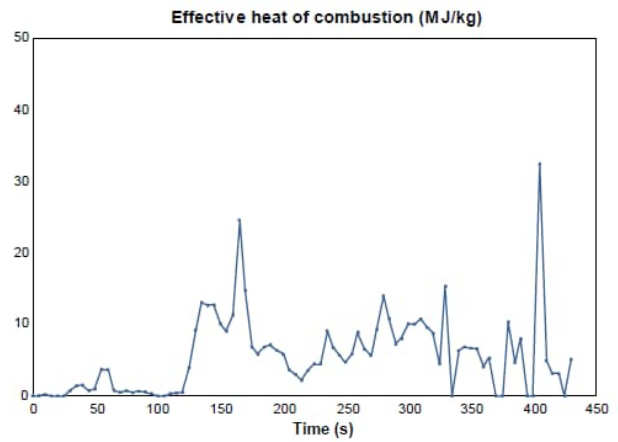
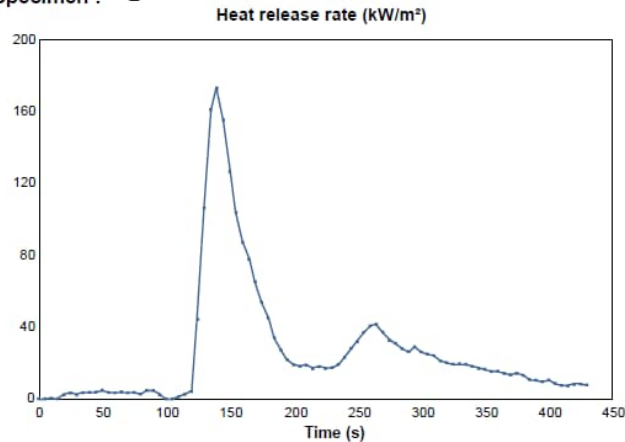
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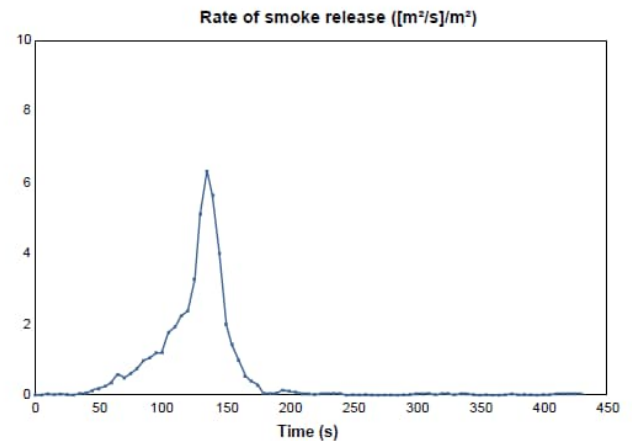
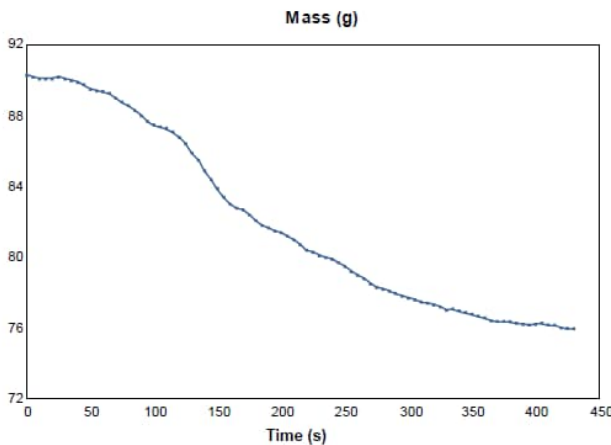
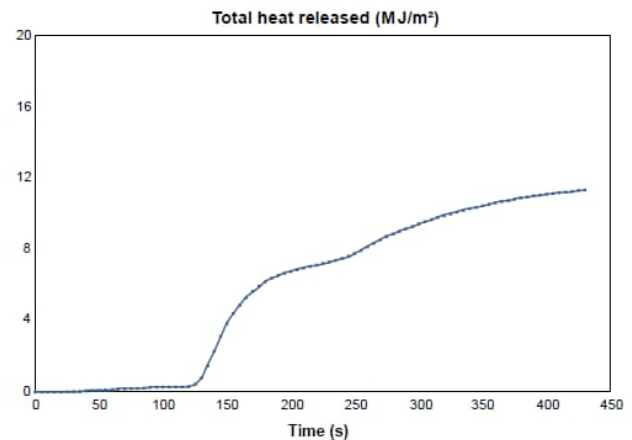
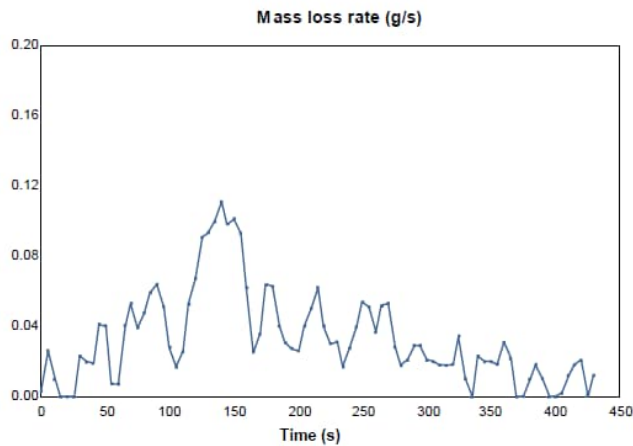
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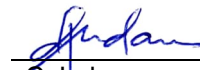
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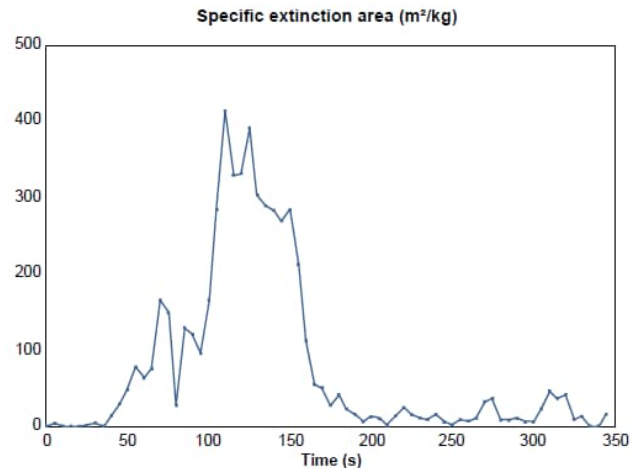
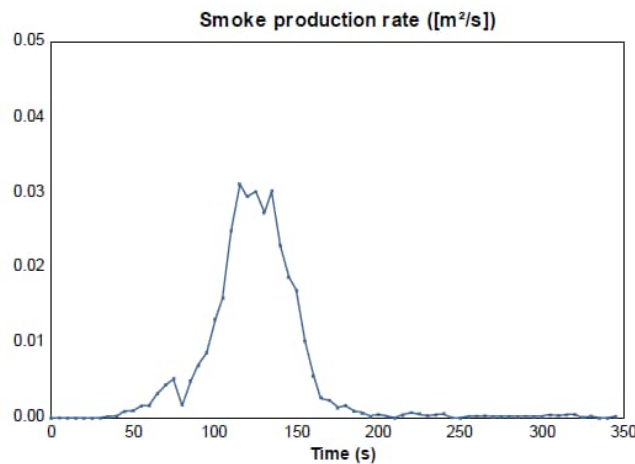
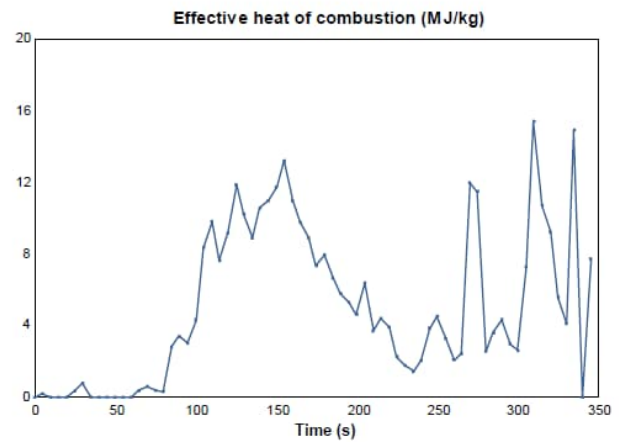
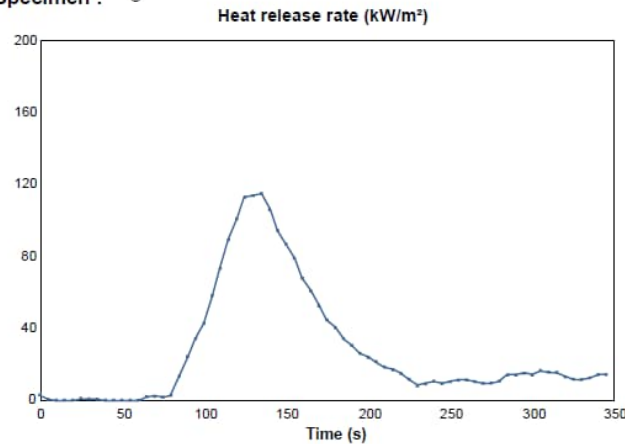
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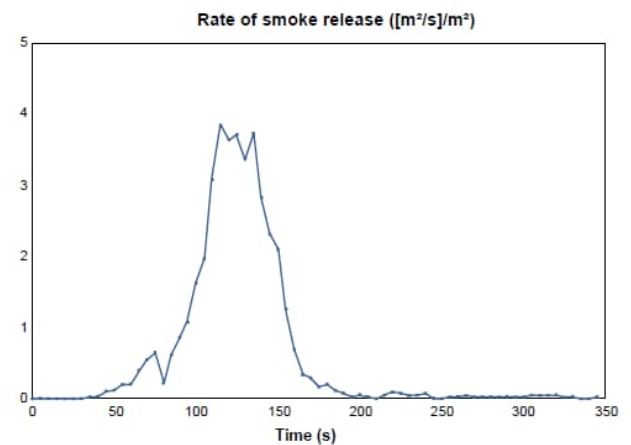
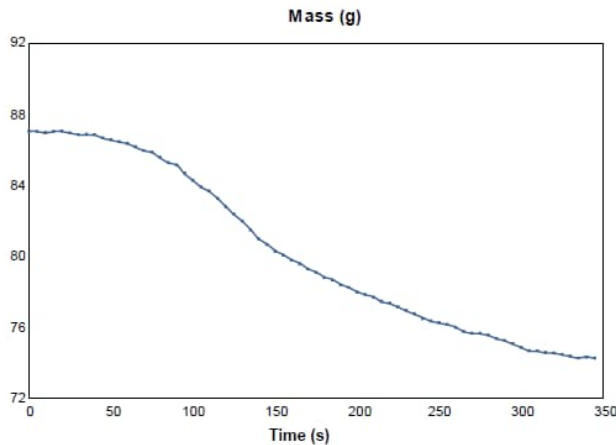
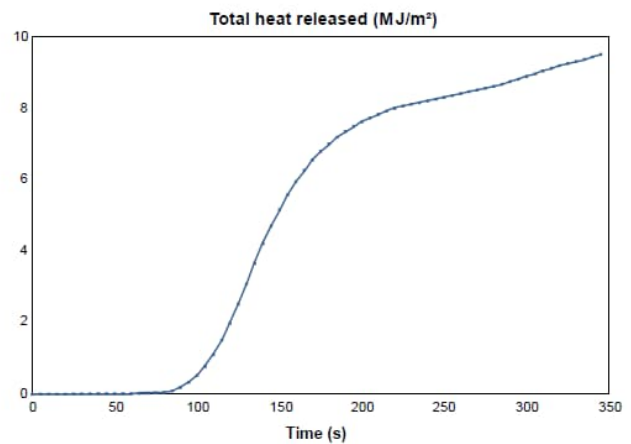
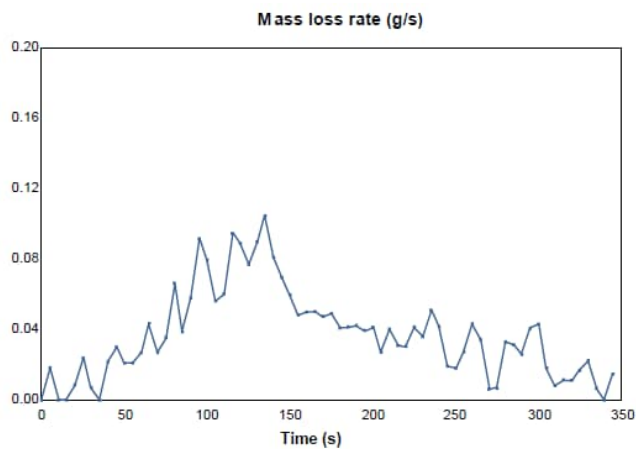
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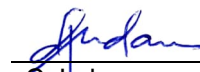
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