

No. 1441899.0C

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 9.11.22
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Yellow/black upholstery fabric – Mainline Twist Nominal Composition – 75% Wool 25% Flax Nominal Weight – 612 grams/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 Number 22-004484).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate:	42.3	50.2	46.0	46.2 kW/m ²
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	26.5	30.5	36.5	31.2 m ² /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				2

Test Orientation: Horizontal

	Specimens			Mean
	1	2	3	
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /s
Time to Sustained Flaming	18	13	13	15 sec.
Test Duration	228	218	231	226 sec.
Peak Heat Release After Ignition	164.6	210.9	222.4	199.3 kW/m ²
Average Heat at 60 s	88.1	106.7	99.8	98.2 kW/m ²
Average Heat at 180 s	46.1	53.9	51.6	50.5 kW/m ²
Average Heat at 300 s	n/a	n/a	n/a	n/a kW/m ²
Total Heat Released	8.8	10.2	10.0	9.7 MJ/m ²
Ave. Effective Heat of Combustion	7.2	8.0	7.6	7.6 MJ/kg
Initial Thickness	11	11	11	11 mm
Initial Mass	62.4	62.3	65.8	63.5 g
Mass Remaining	52.3	51.8	55.2	53.1 g
Mass Percentage Pyrolysed	16.2	16.9	16.0	16.4%
Mass Loss	1.2	1.3	1.3	1.3 kg/m ²
Average Rate of Mass Loss	5.9	6.3	6.0	6.1 g/m ² .s

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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 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.

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

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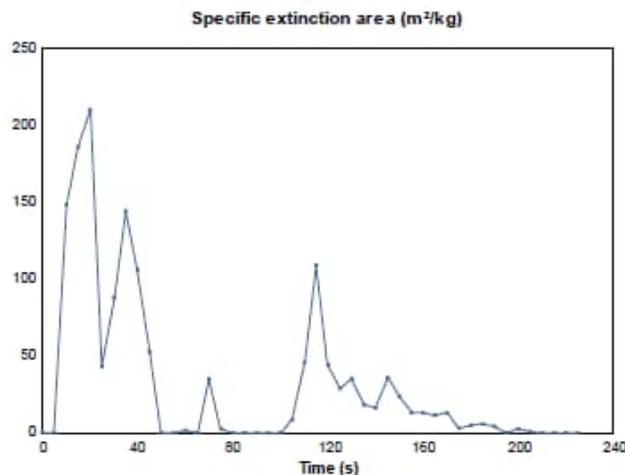
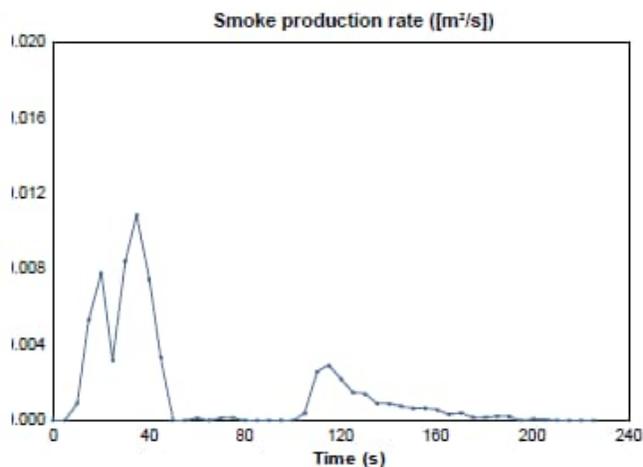
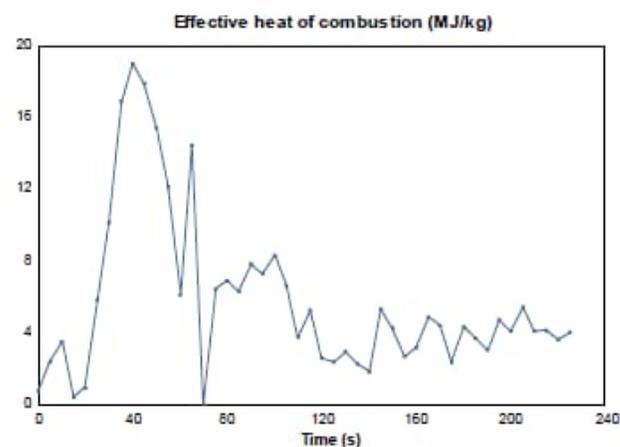
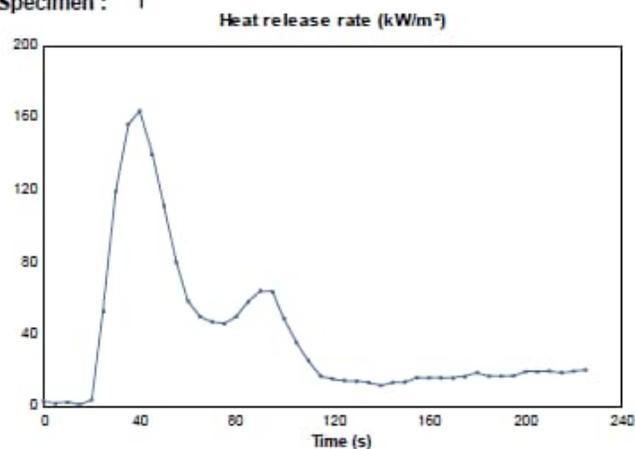
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Specimen : 1



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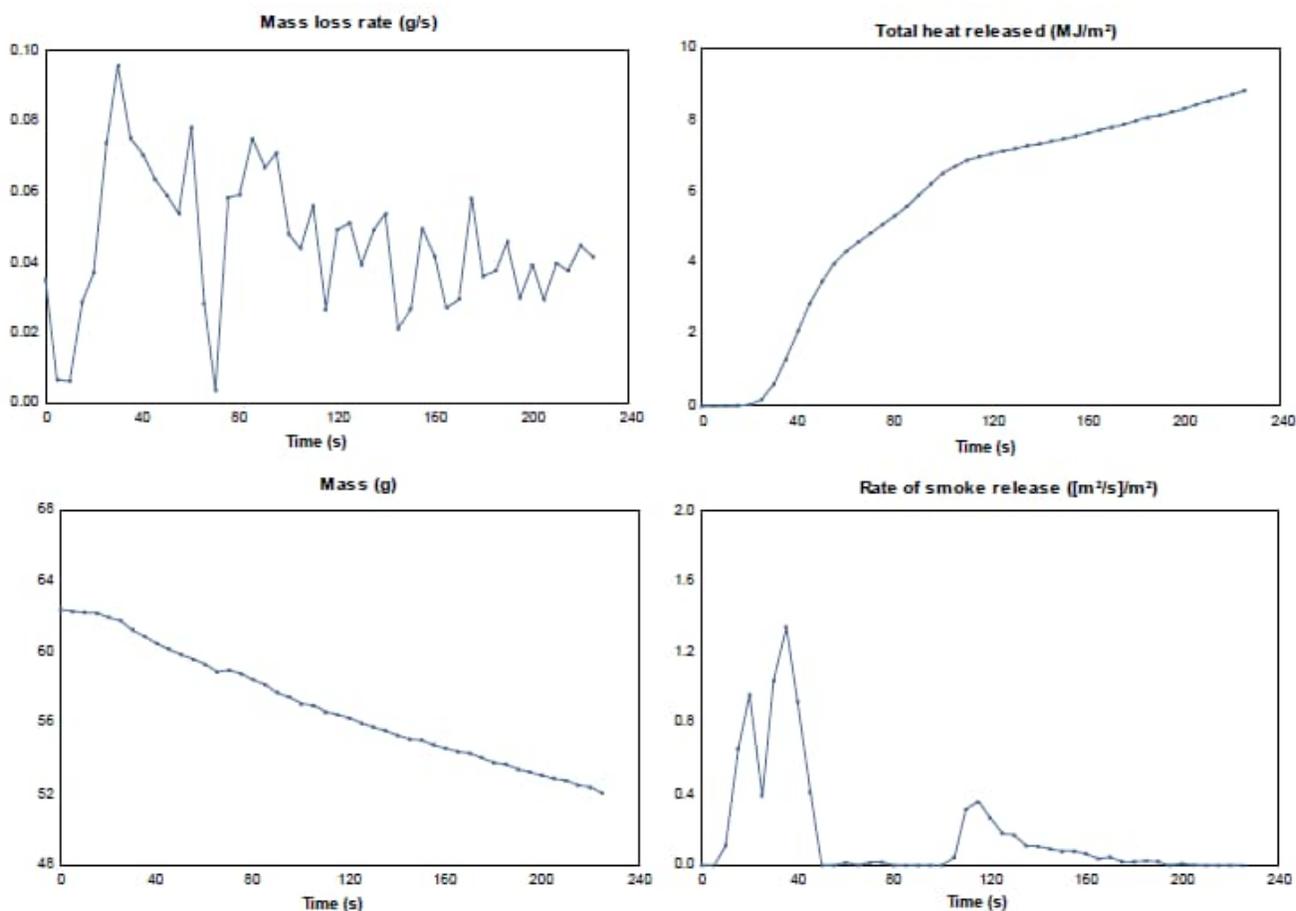
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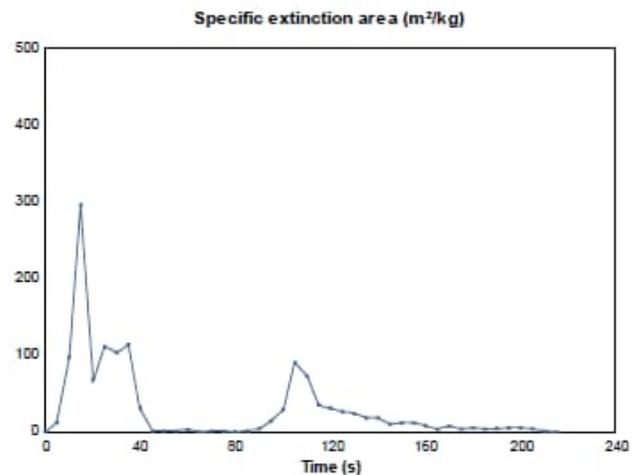
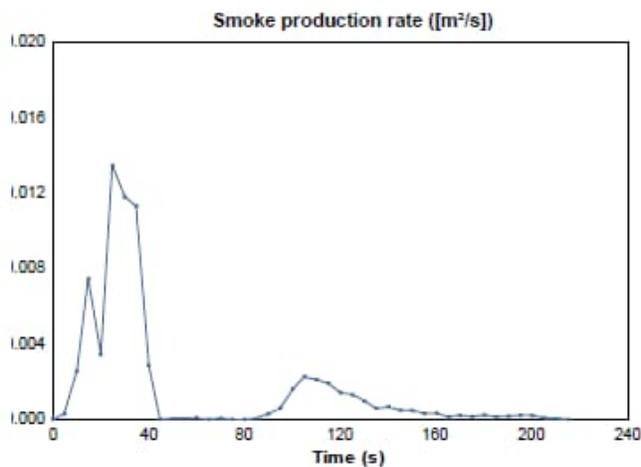
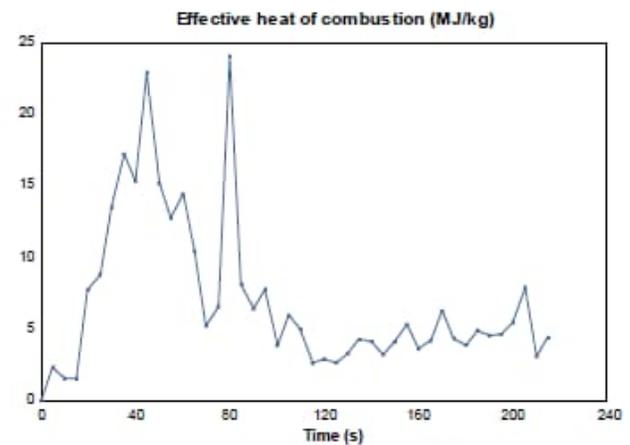
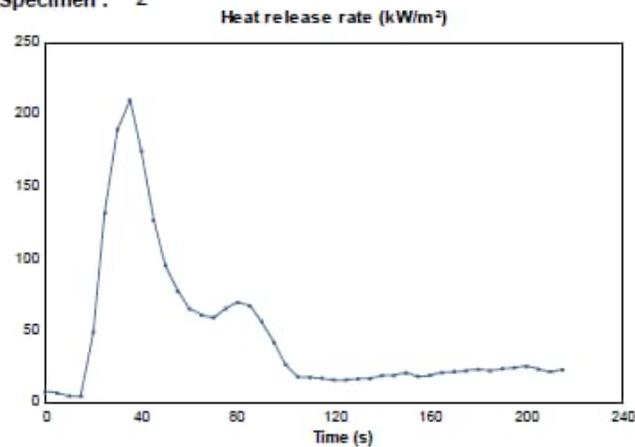
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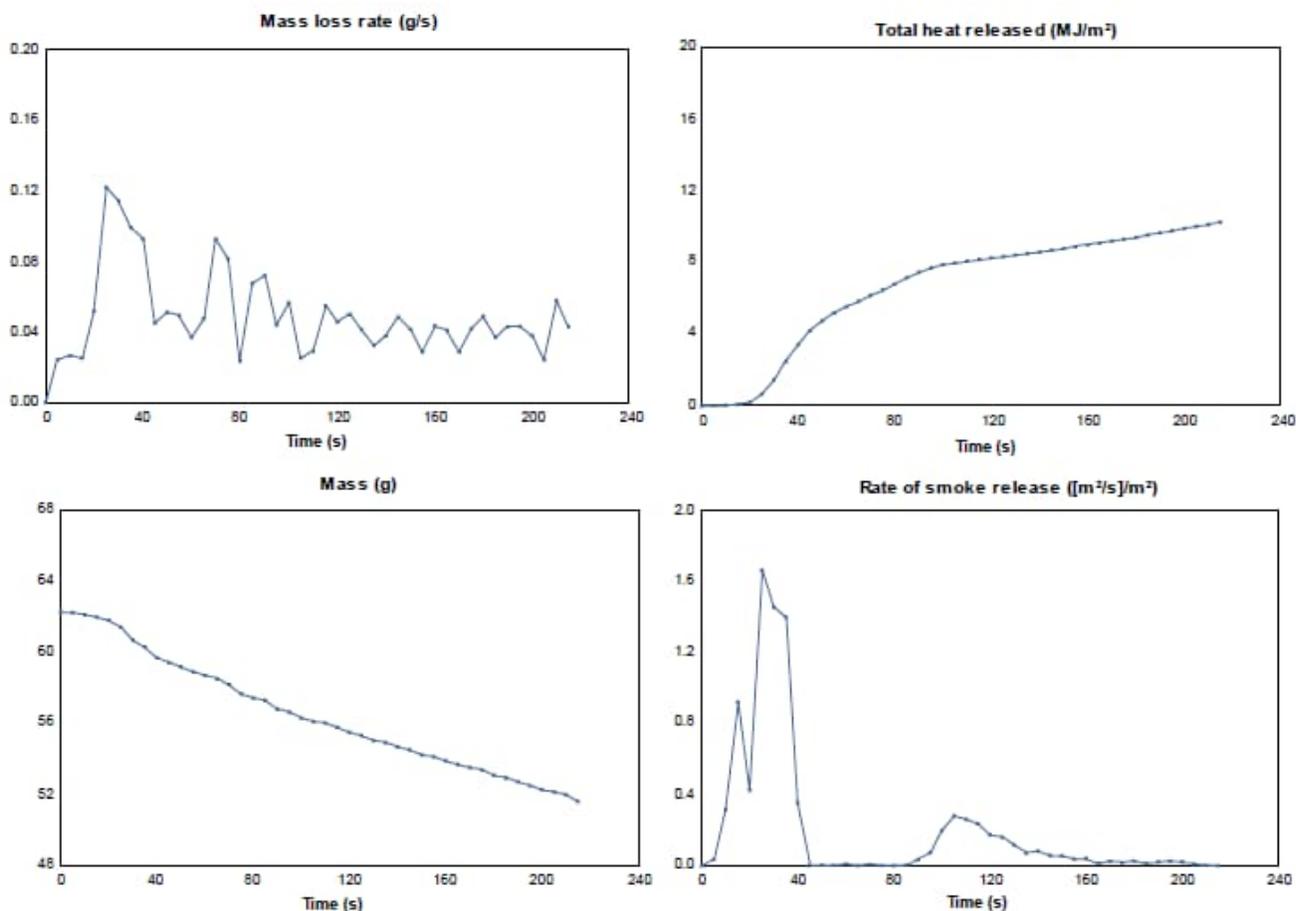
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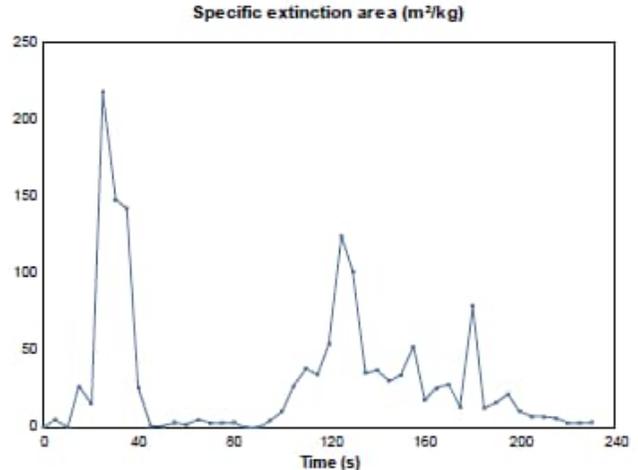
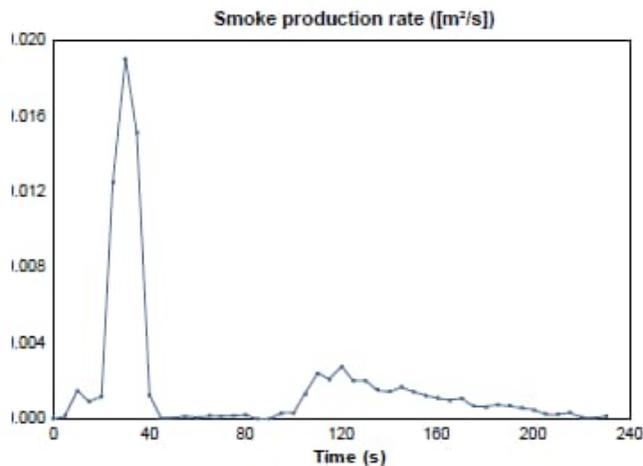
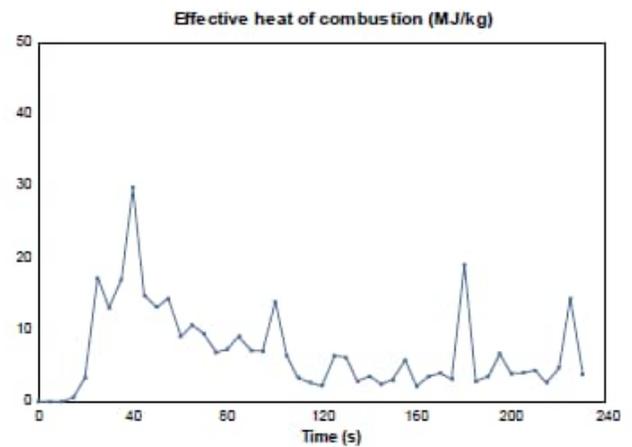
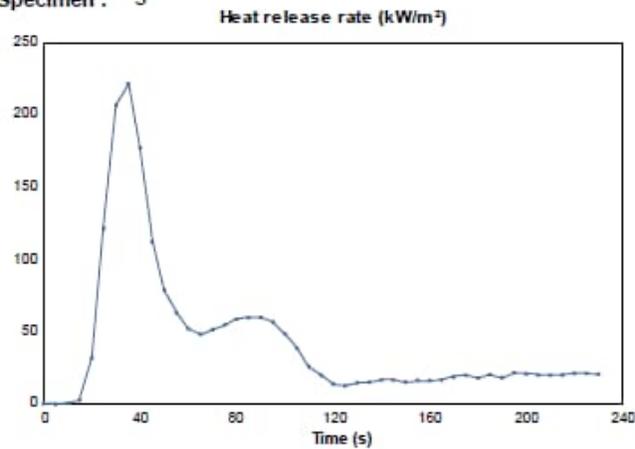
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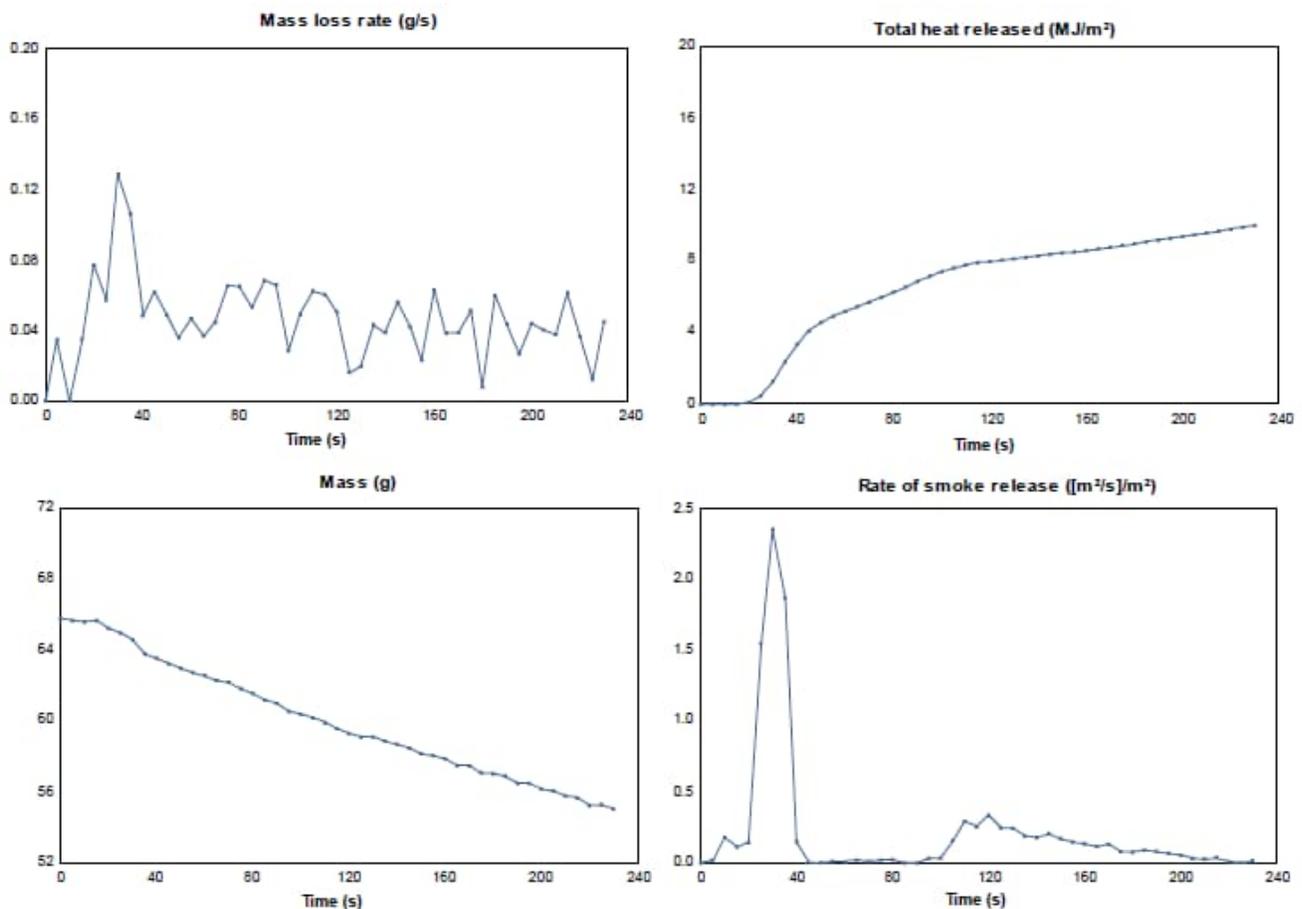
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