

# No. 1461648.6A

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 17.5.23
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Grey upholstery fabric – Velocity Nominal Composition – 87% Polyester 10% Viscose 3% Nylon Nominal Weight – 553 grammes per lineal meter	
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. 23-001875).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate:	57.7	61.0	54.4	57.7 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	106.7	111.6	102.4	106.9 m <sup>2</sup> /kg
Group Number Classification: (In Accordance with AS 5637.1-2015)				1

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> /s
Time to Sustained Flaming	50	47	24	40 sec.
Test Duration	297	265	268	277 sec.
Peak Heat Release After Ignition	246.8	251.8	225.1	241.2 kW/m <sup>2</sup>
Average Heat at 60 s	136.4	136.6	124.5	132.5 kW/m <sup>2</sup>
Average Heat at 180 s	72.2	68.6	67.3	69.4 kW/m <sup>2</sup>
Average Heat at 300 s	n/a	n/a	n/a	n/a kW/m <sup>2</sup>
Total Heat Released	14.3	13.1	13.3	13.6 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	9.3	9.1	8.5	9.0 MJ/kg
Initial Thickness	11.6	11.6	11.6	11.6 mm
Initial Mass	67.2	64.5	67.1	66.3g
Mass Remaining	54.7	52.8	54.5	54.0g
Mass Percentage Pyrolysed	18.6	18.2	18.7	18.5%
Mass Loss	1.5	1.4	1.6	1.5 kg/m <sup>2</sup>
Average Rate of Mass Loss	6.2	6.7	6.4	6.4 g/m <sup>2</sup> .s

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Key Technical Person

31/05/2023

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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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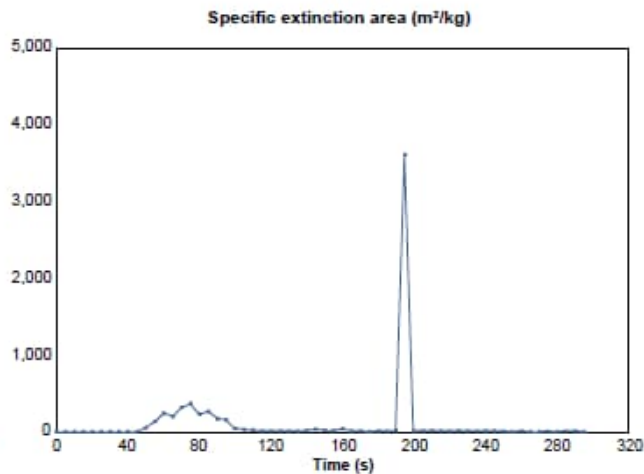
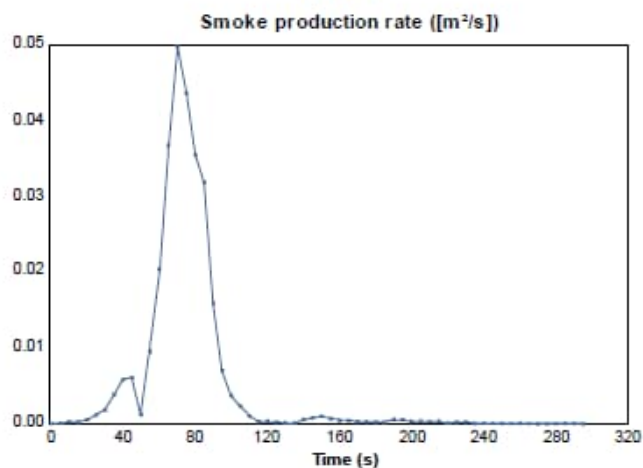
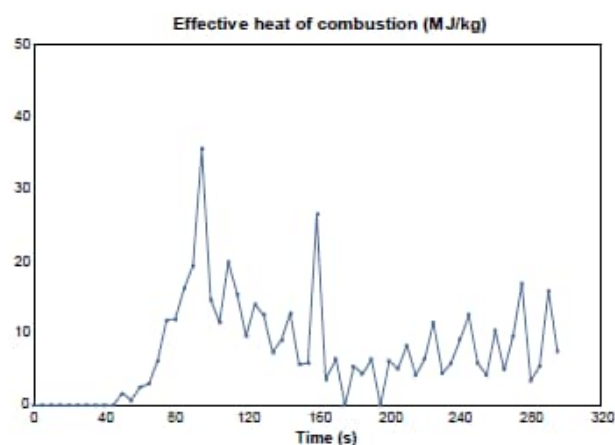
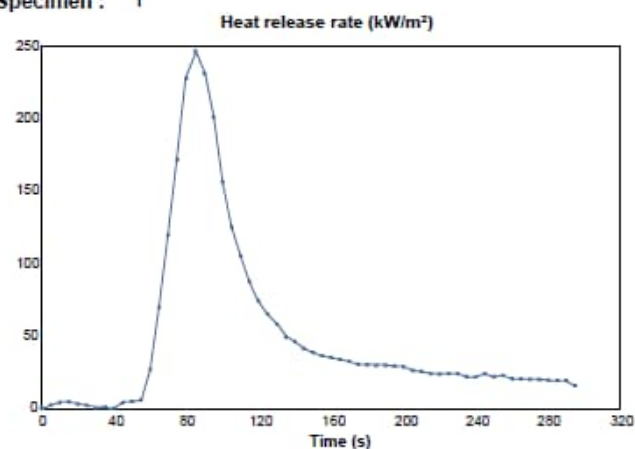
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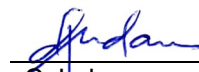
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Specimen : 1



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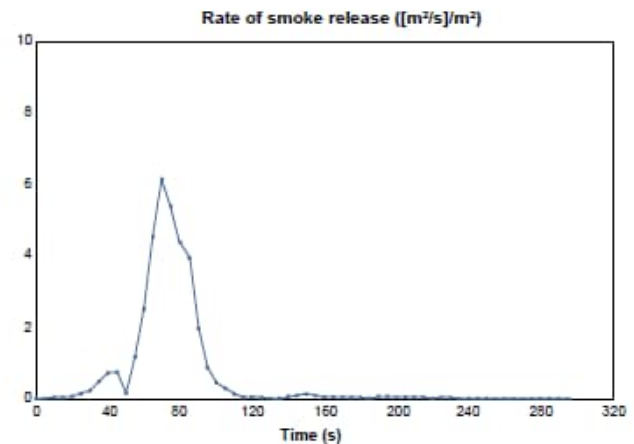
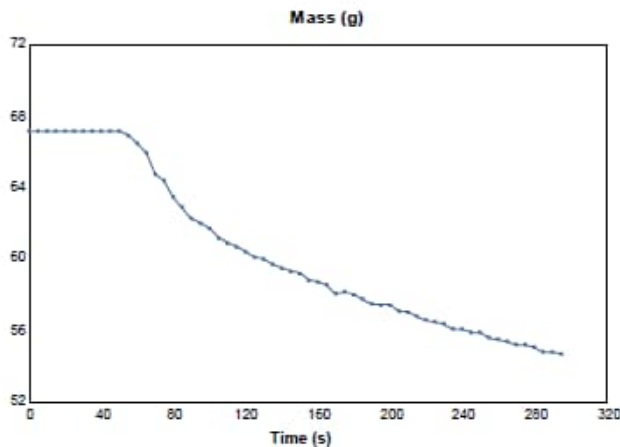
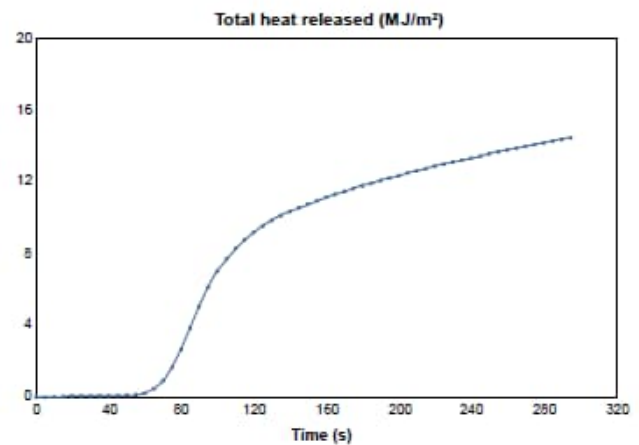
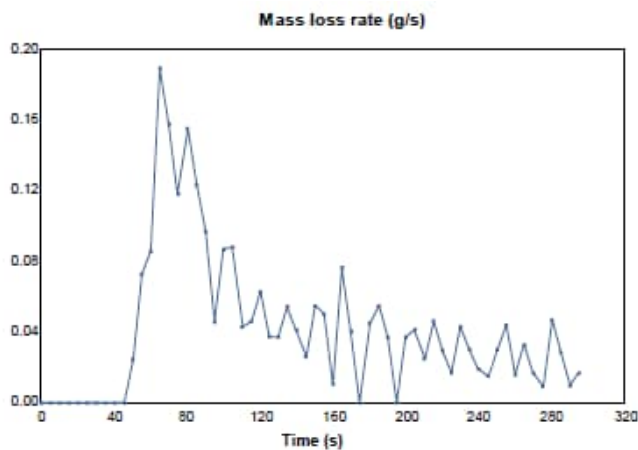
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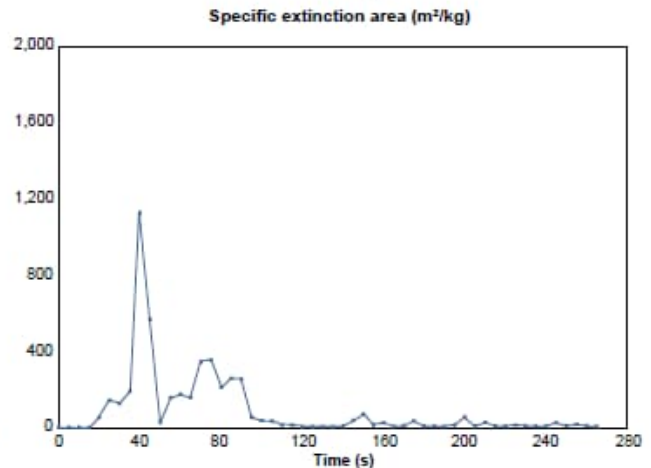
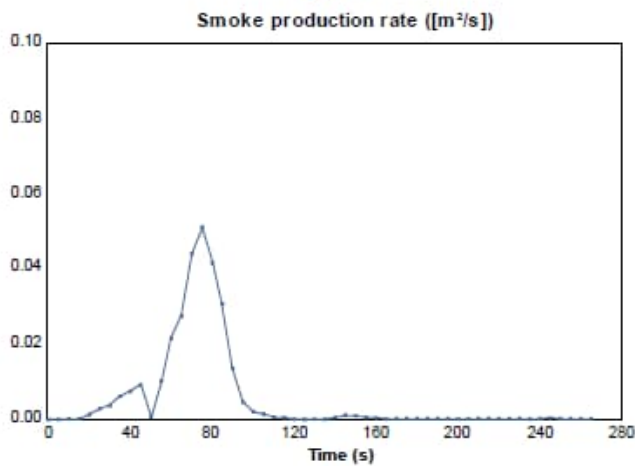
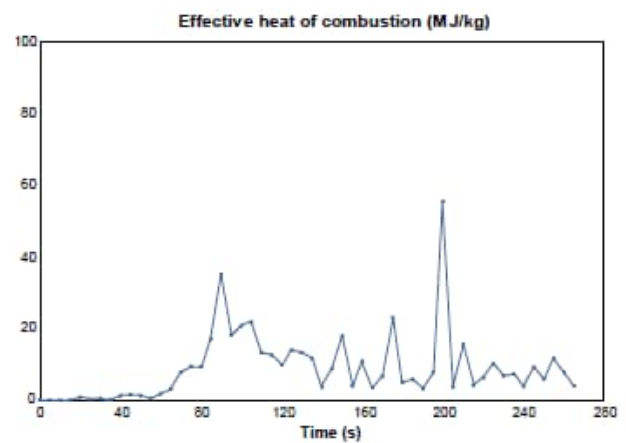
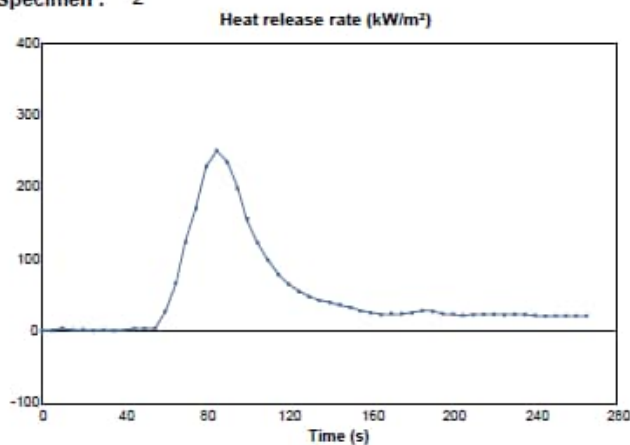
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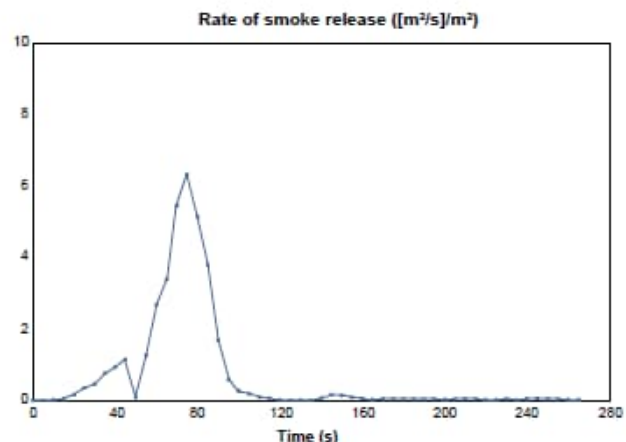
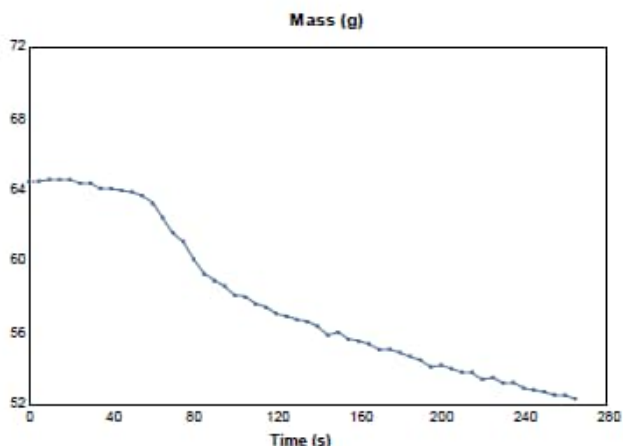
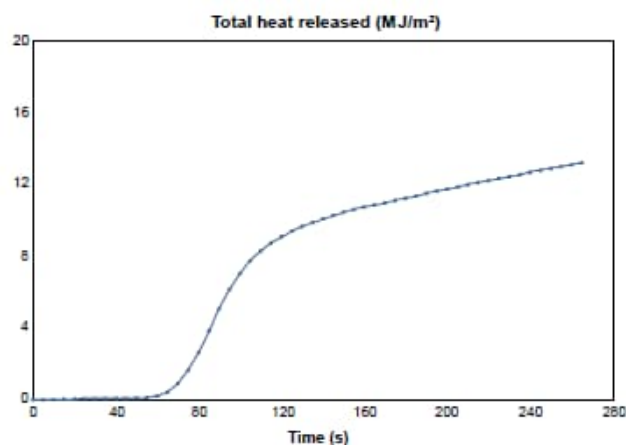
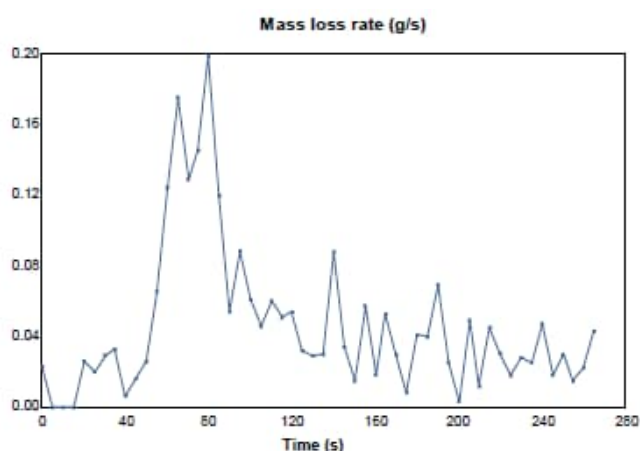
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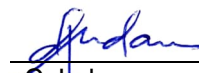
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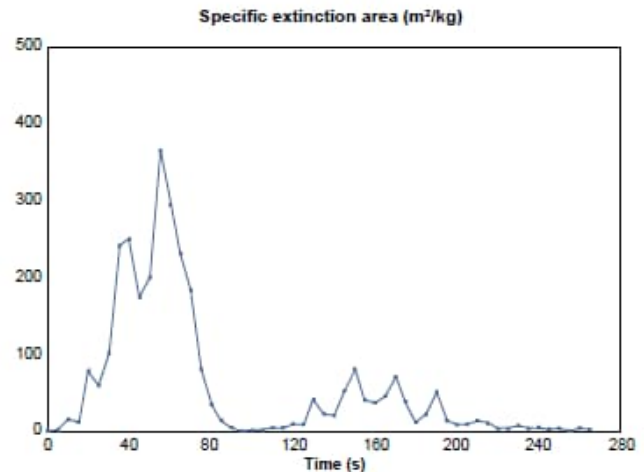
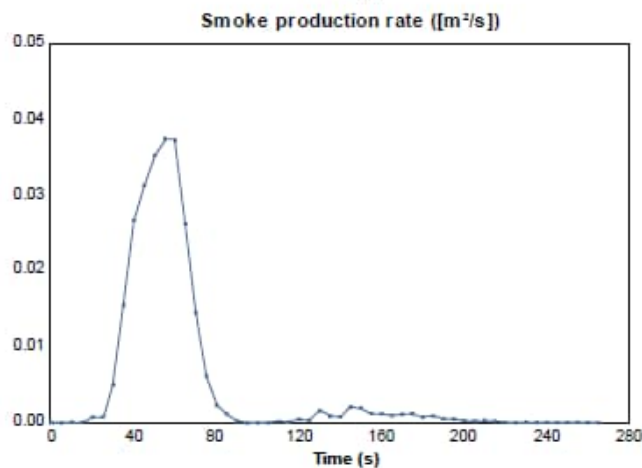
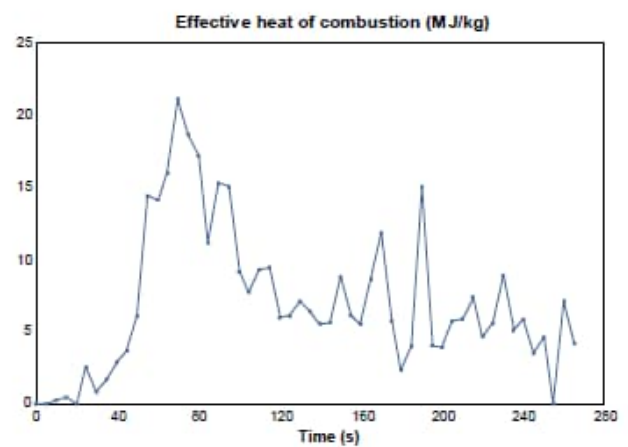
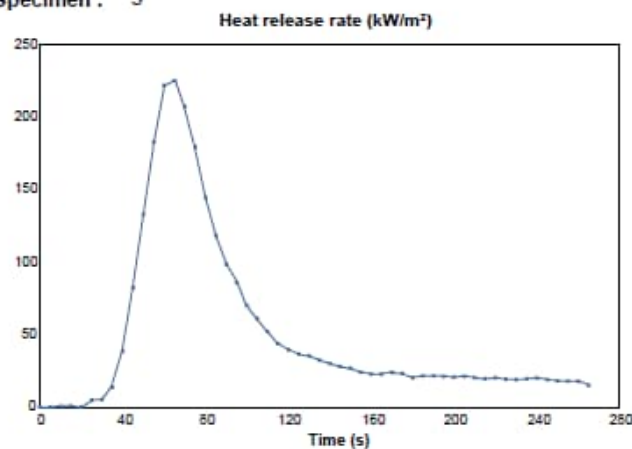
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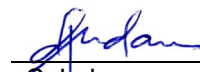
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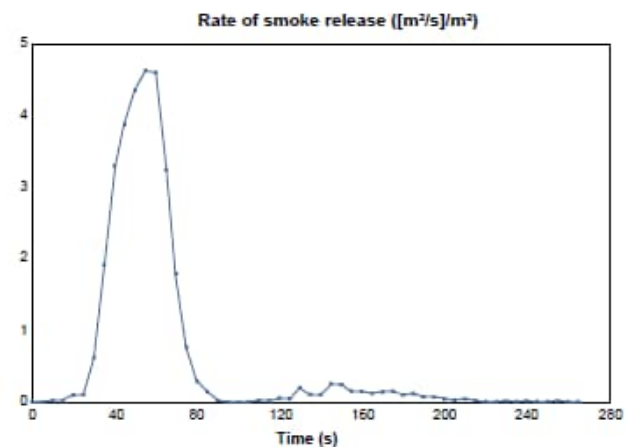
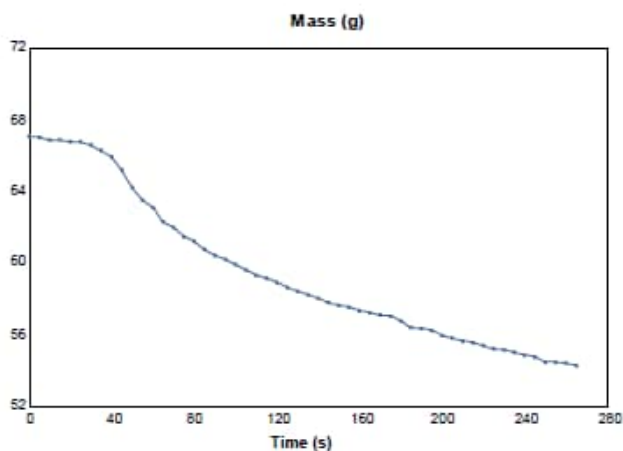
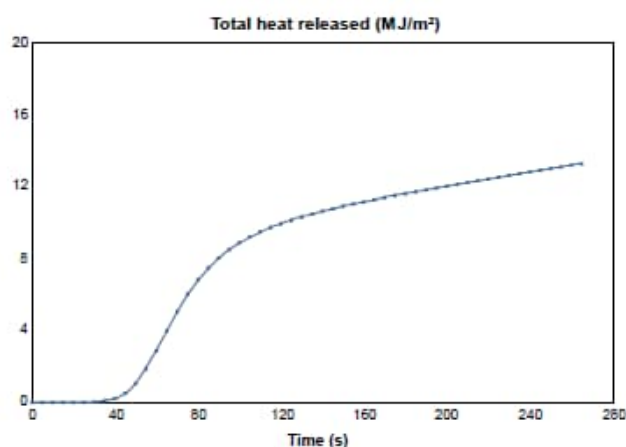
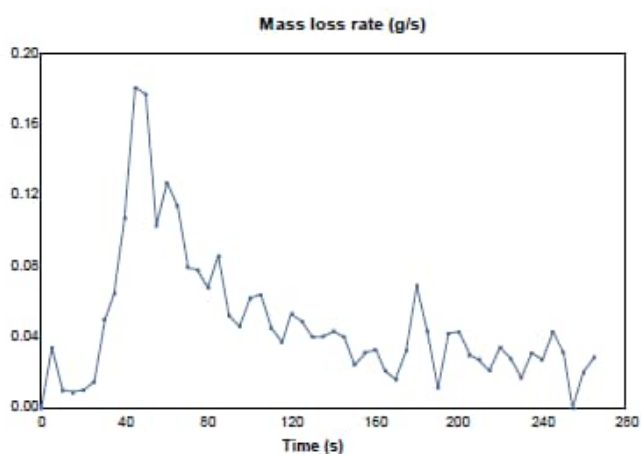
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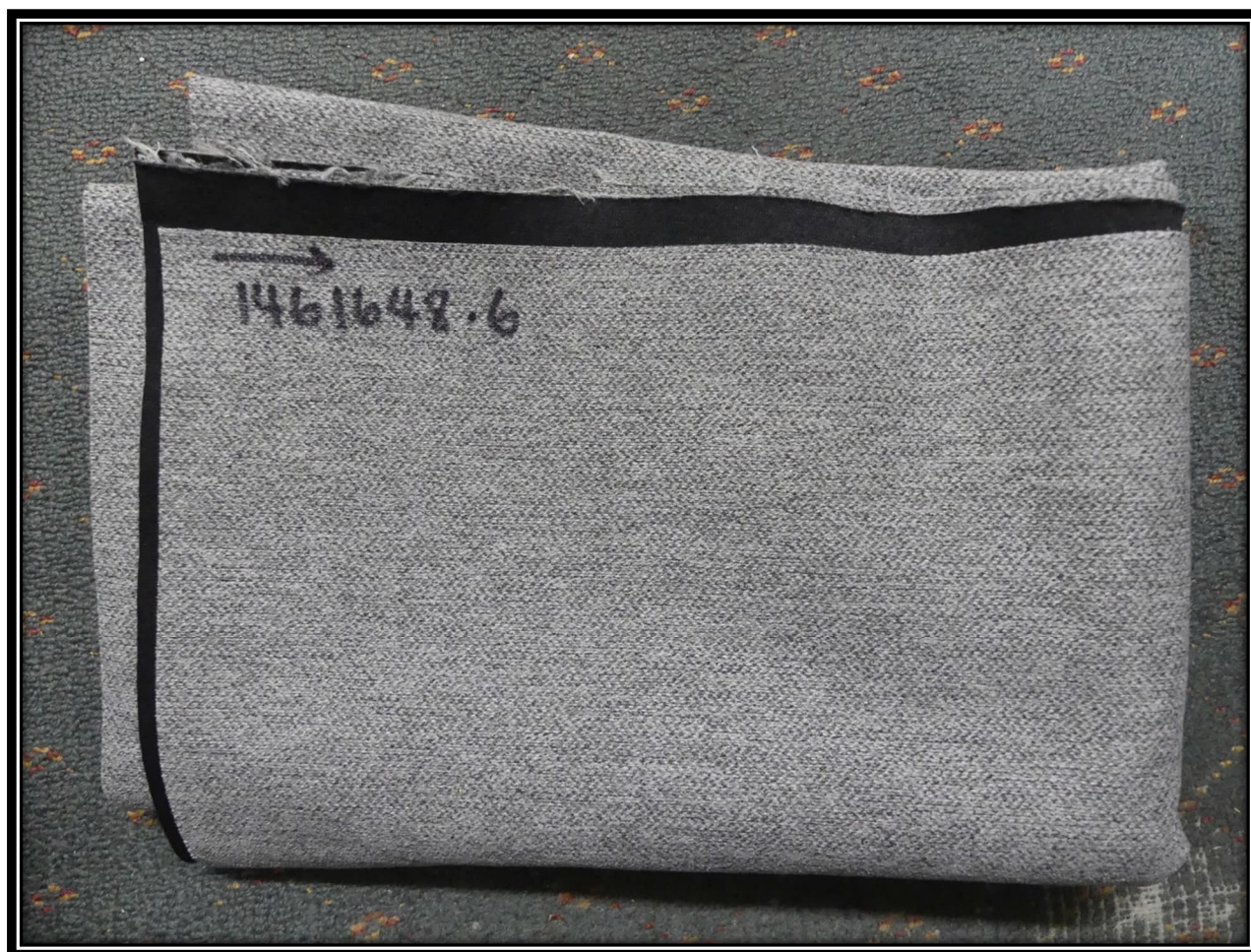
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