

No. 1461648.6B

(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

**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. 23-001874).

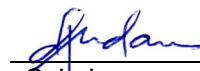
	Specimens			
	1	2	3	Mean
Average Heat Release Rate	16.0	13.8	14.9	14.9 kW/m ²
Average Specific Extinction Area	63.8	71.1	68.5	67.8 m ² /kg
Group Number Classification				1S
(In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				

Test Orientation: Horizontal

	Specimens			
	1	2	3	Mean
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /sec.
Time to Sustained Flaming	50	47	24	40 sec.
Test Duration	1850	1847	1824	1840 sec.
Peak Heat Release After Ignition	246.8	251.8	225.1	241.2 kW/m ²
Average Heat at 180 s	72.2	68.6	67.3	69.4 kW/m ²
Average Heat at 300 s	50.7	47.9	47.2	48.6 kW/m ²
Total Heat Released	28.8	24.8	26.8	26.8 MJ/m ²
Ave. Effective Heat of Combustion	12.5	11.0	11.4	11.6 MJ/kg
Initial Thickness	11.6	11.6	11.6	11.6 mm
Initial Mass	67.2	64.5	67.1	66.3 g
Mass at Sustained Flaming	67.2	64.0	66.8	66.0 g
Mass Remaining	48.6	46.2	48.0	47.6 g
Mass Loss	2299.0	2257.4	2356.4	2304.3 g/m ²
Average Rate of Mass Loss	1.3	1.2	1.3	1.3 g/m ² .s

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Total Smoke Production (non-flaming phase)	12.7	16.4	0.4	9.8 m ² /m ²
Total Smoke Production (flaming phase)	167.2	166.9	165.1	166.4 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	179.9	183.3	165.5	176.3 m ² /m ²
C-Factor (Calibration Constant)	0.040924	0.040924	0.040924	-

Additional Observation: 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.

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.

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

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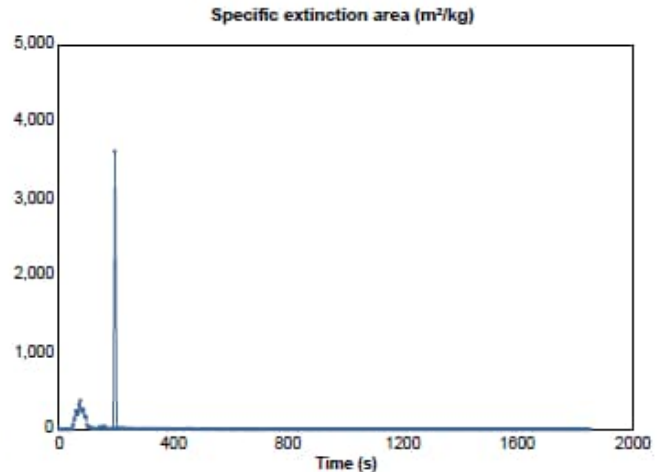
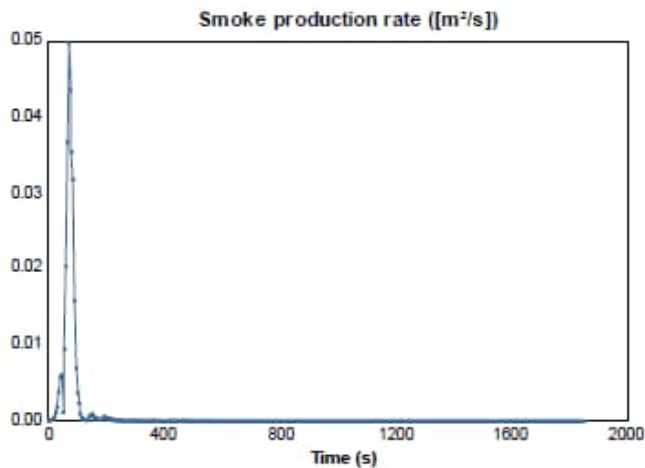
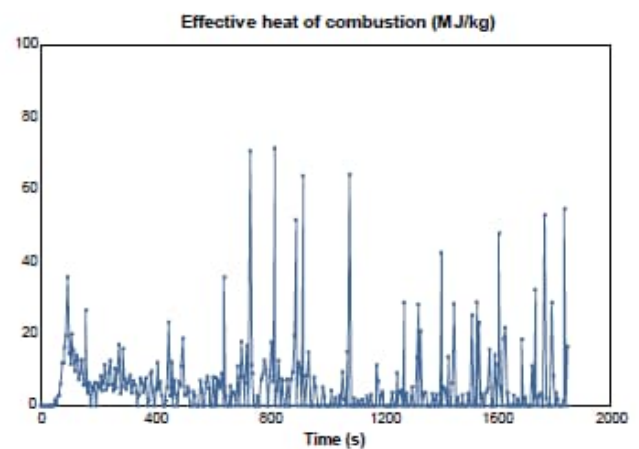
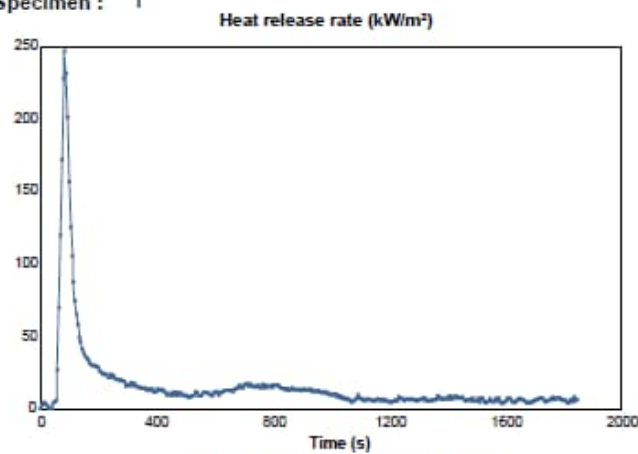
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Specimen : 1



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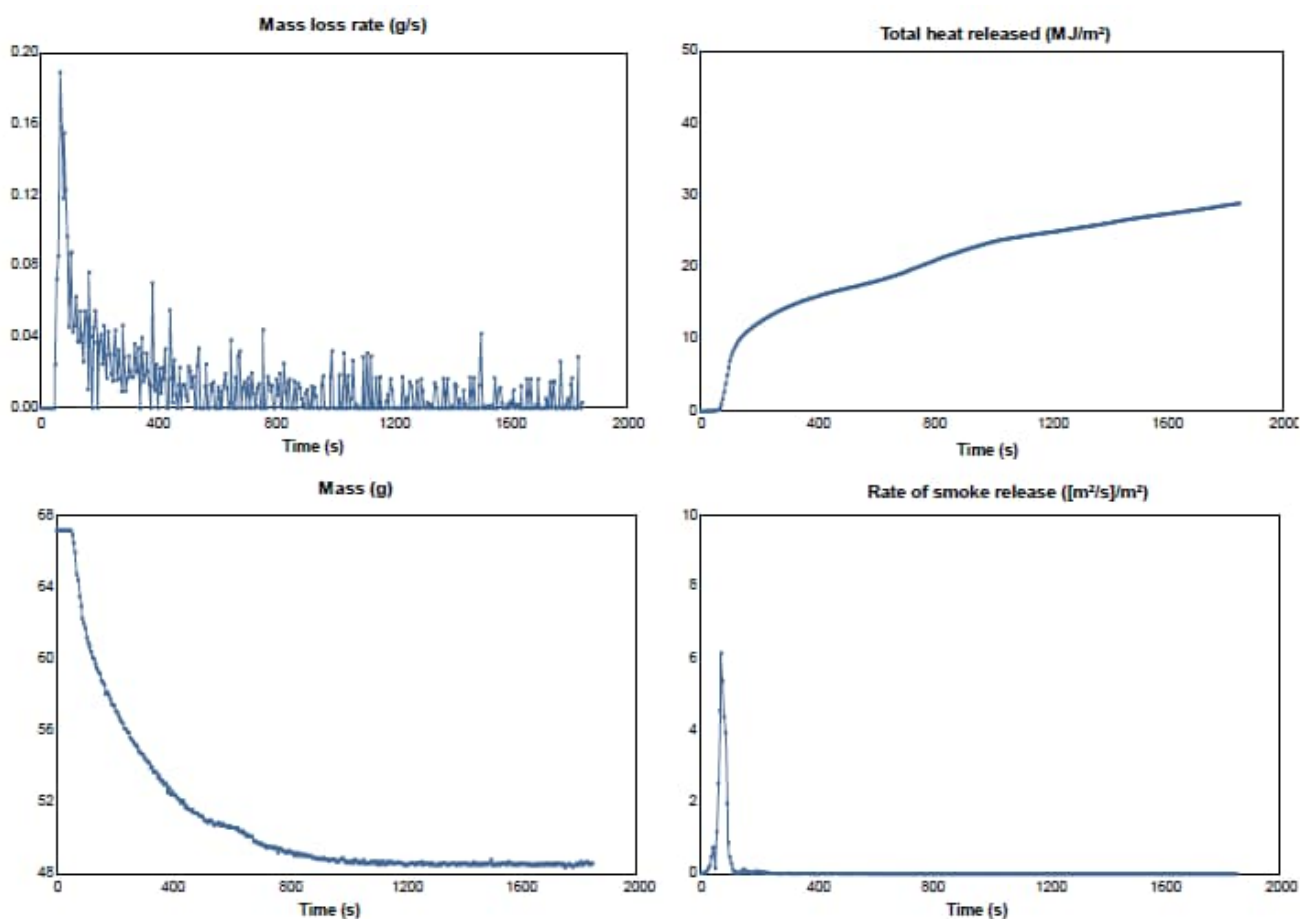
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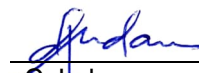
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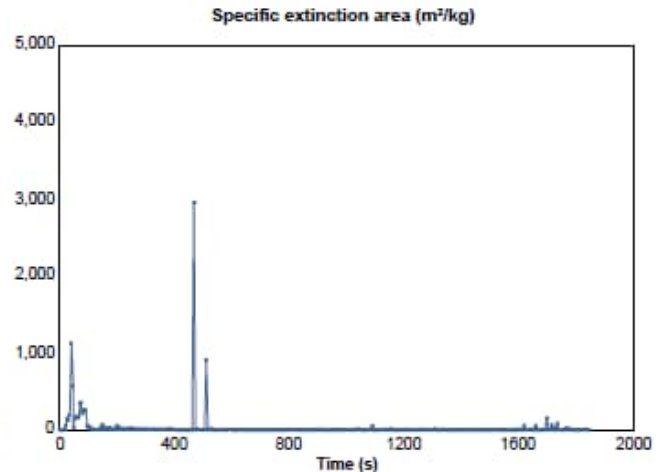
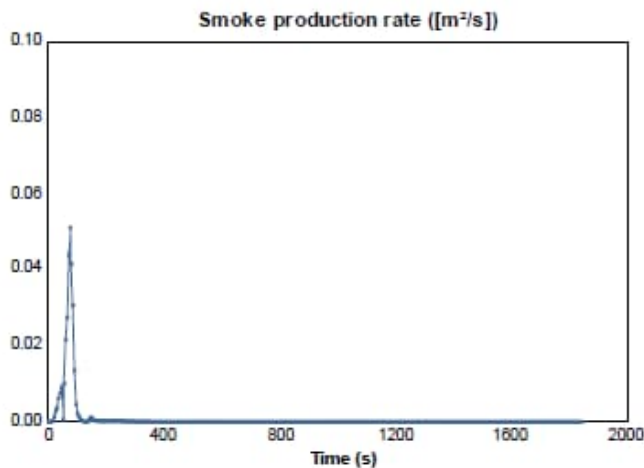
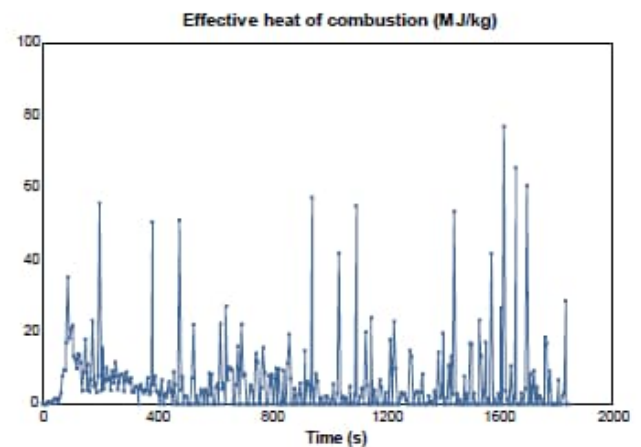
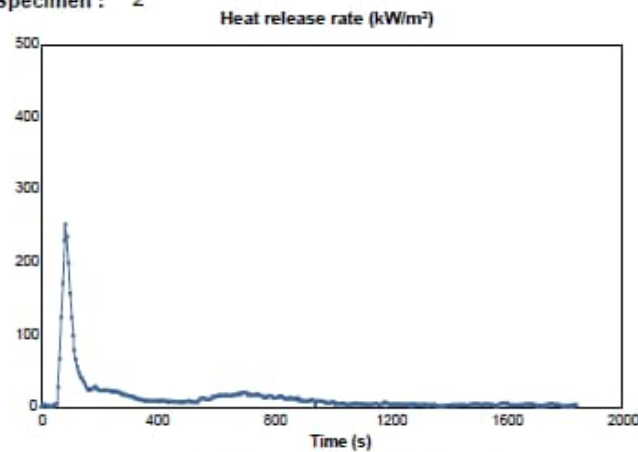
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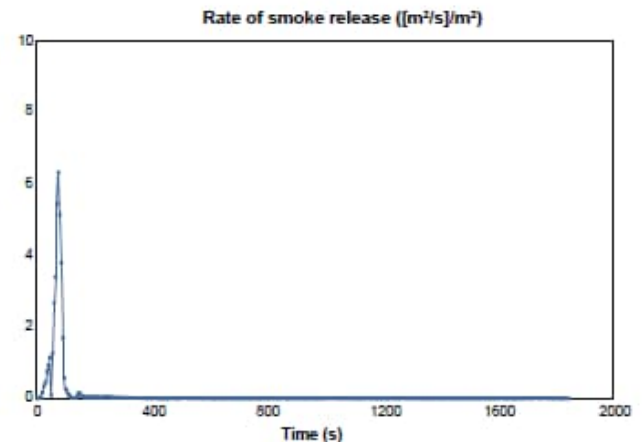
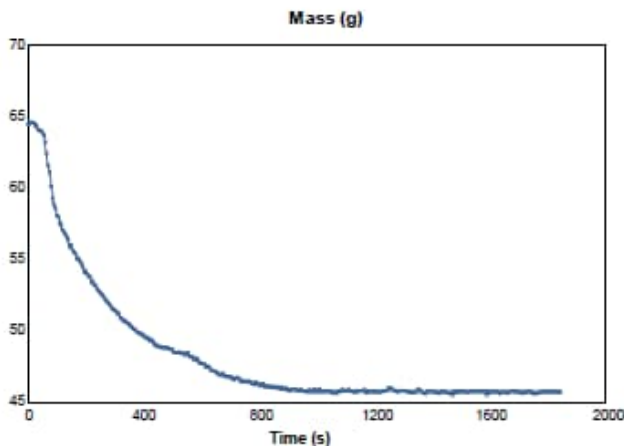
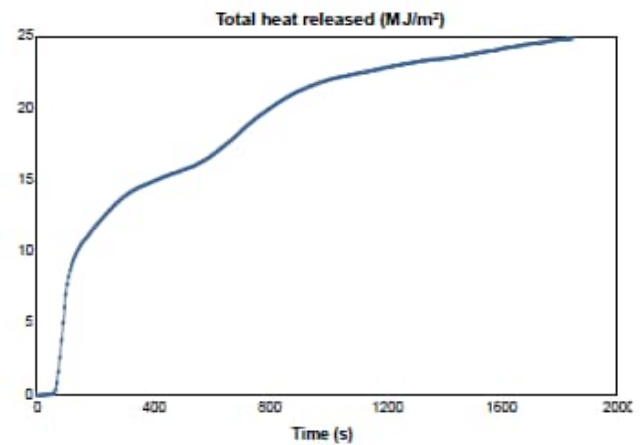
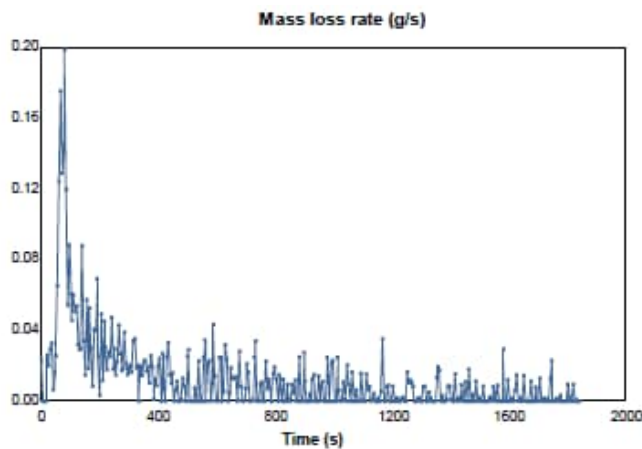
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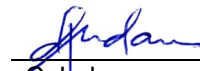
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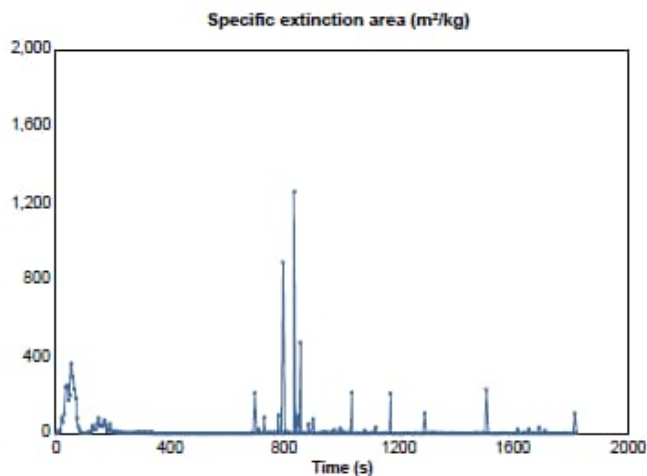
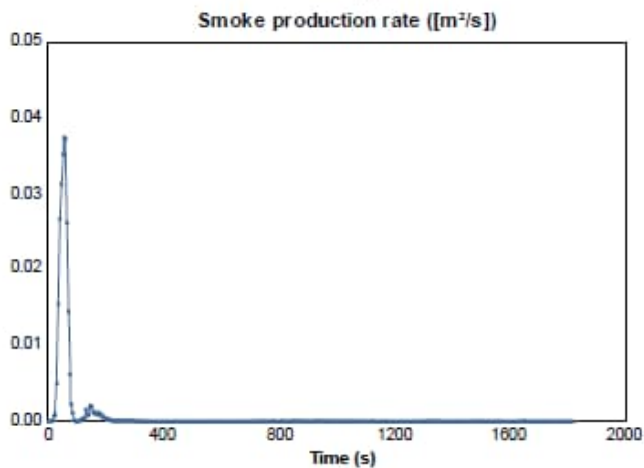
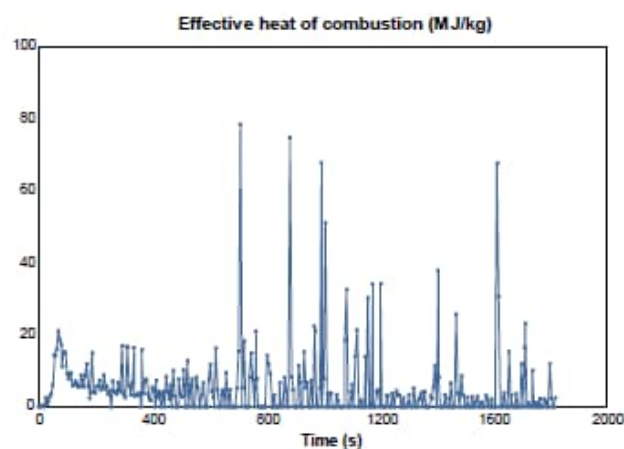
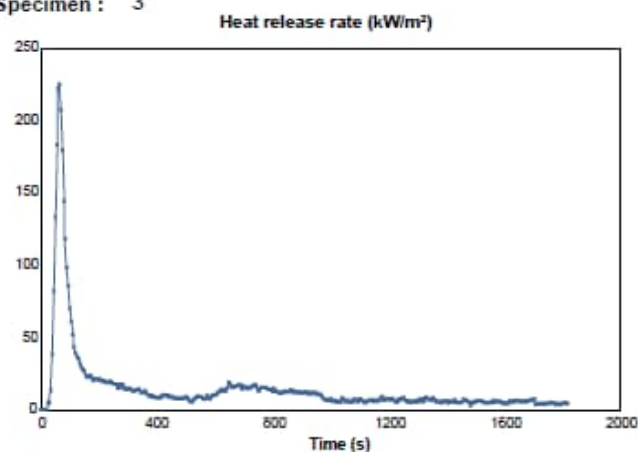
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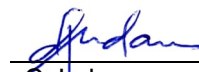
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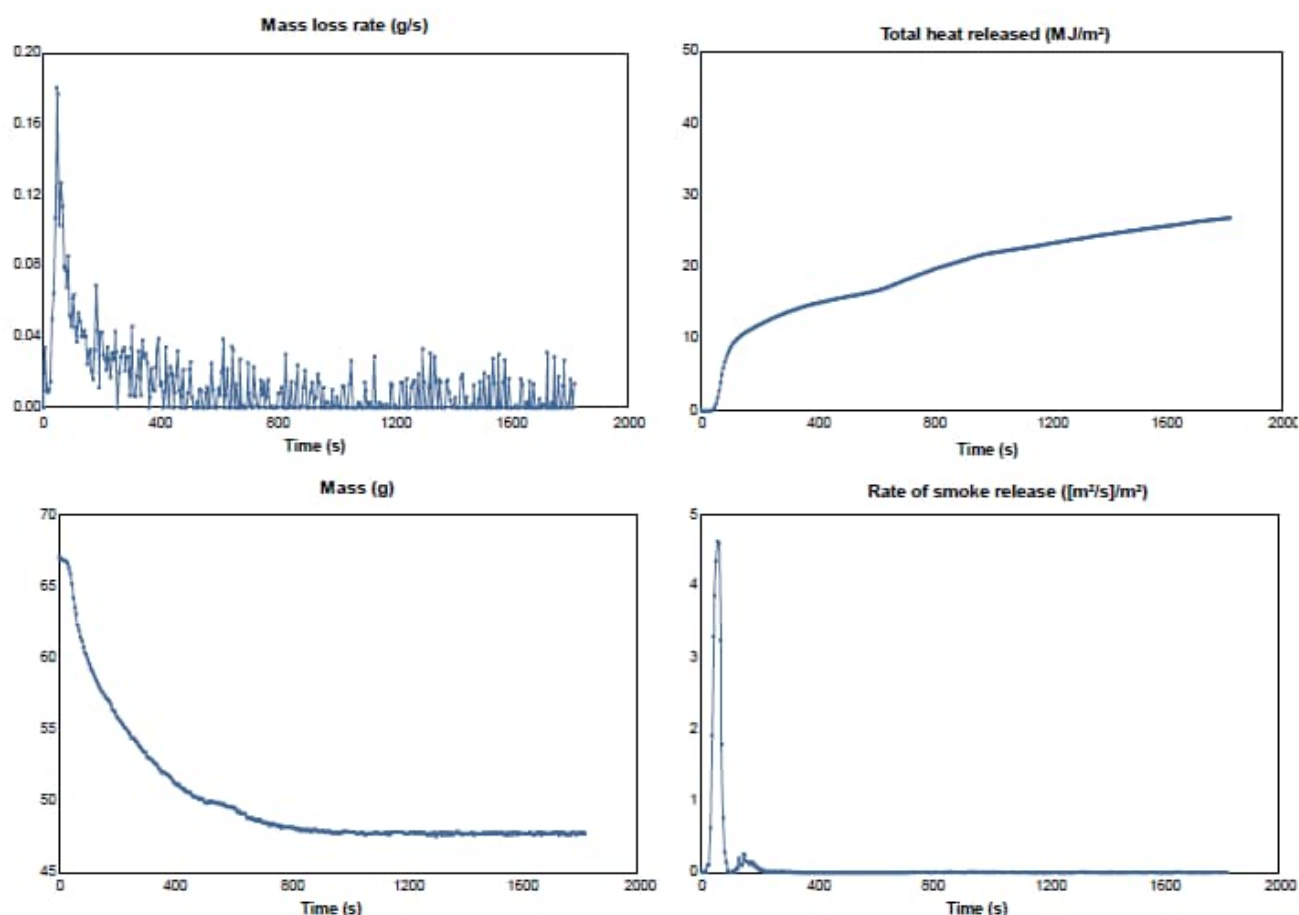
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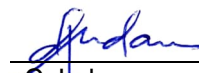
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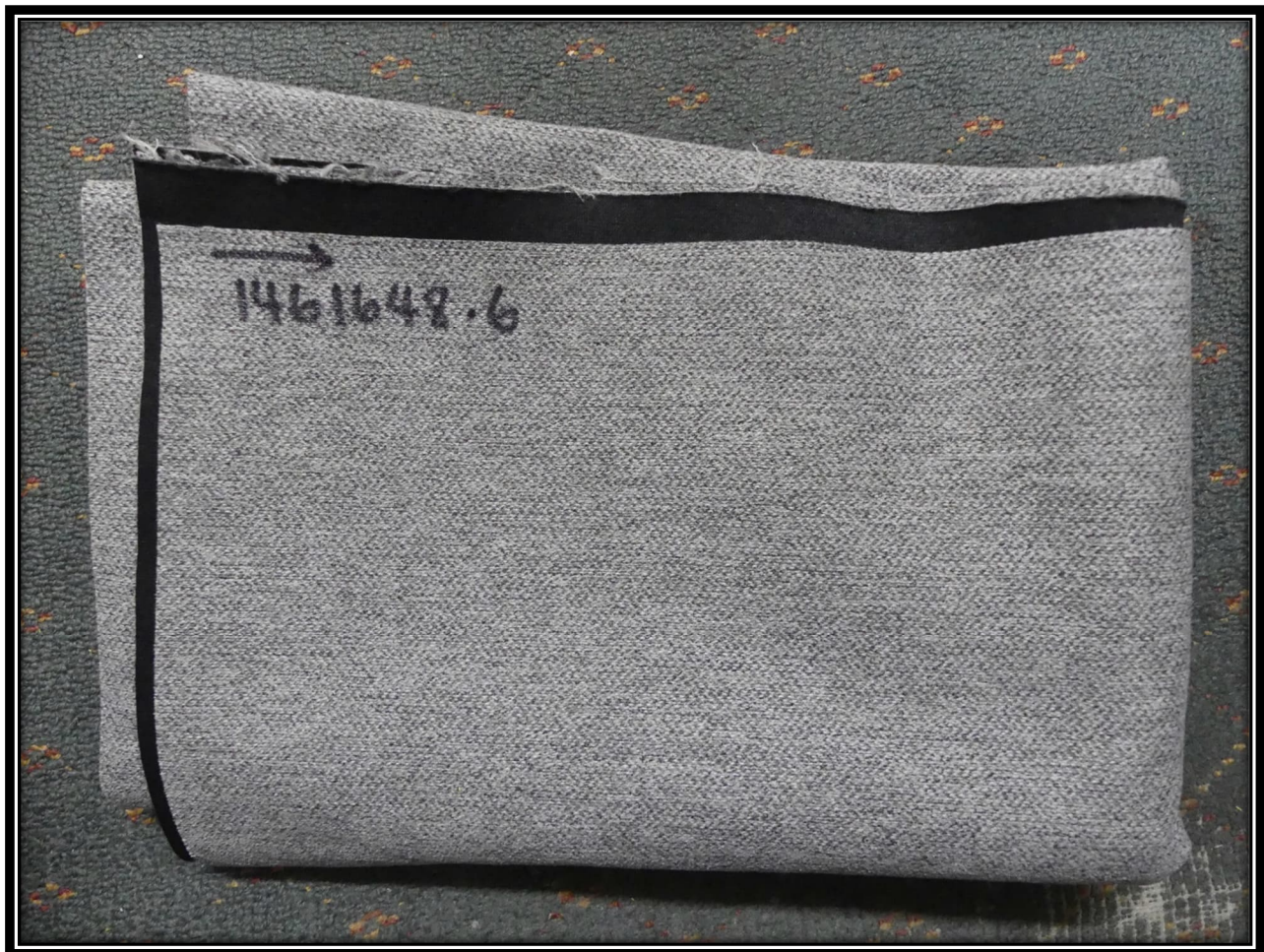
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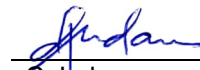
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