

# No. 1501577.9B

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 20.2.24
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Beige upholstery fabric – Ankara Nominal Composition – 100% Polyester Nominal Weight – 450 grams 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 number 18-00664).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate	11.1	10.4	8.4	9.9 kW/m <sup>2</sup>
Average Specific Extinction Area	96.4	139.3	108.3	114.7 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>

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> /sec.
Time to Sustained Flaming	66	81	88	78 sec.
Test Duration	1866	1881	1888	1878 sec.
Peak Heat Release After Ignition	120.0	167.9	150.7	146.2 kW/m <sup>2</sup>
Average Heat at 180 s	63.7	63.2	60.2	62.3 kW/m <sup>2</sup>
Average Heat at 300 s	45.2	46.3	42.5	44.7 kW/m <sup>2</sup>
Total Heat Released	20.1	18.7	15.4	18.1 MJ/m <sup>2</sup>
Average Effective Heat of Combustion	9.3	9.6	7.5	8.8 MJ/kg
Initial Thickness	8	8	8	8 mm
Initial Mass	89.2	87.7	91.9	89.6 g
Mass at Sustained Flaming	88.2	86.3	90.2	88.2 g
Mass Remaining	71.6	71.9	75.2	72.9 g
Mass Loss	2175.7	1963.6	2064.6	2068.0 g/m <sup>2</sup>
Average Rate of Mass Loss	1.2	1.1	1.1	1.1 g/m <sup>2</sup> .s

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C Judan  
Key Technical Person

02/04/2024

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Client Order No.: Client Reference: 2 of 9

Total Smoke Production (non-flaming phase)	4.5	13.8	18.6	12.3 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	244.1	278.3	248.3	256.9 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	248.6	292.1	266.9	269.2 m <sup>2</sup> /m <sup>2</sup>
C-Factor (Calibration Constant)	0.043734	0.043734	0.043734	-

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.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample 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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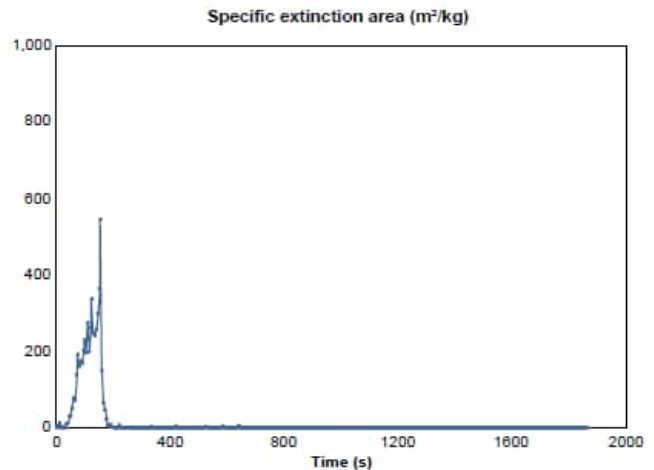
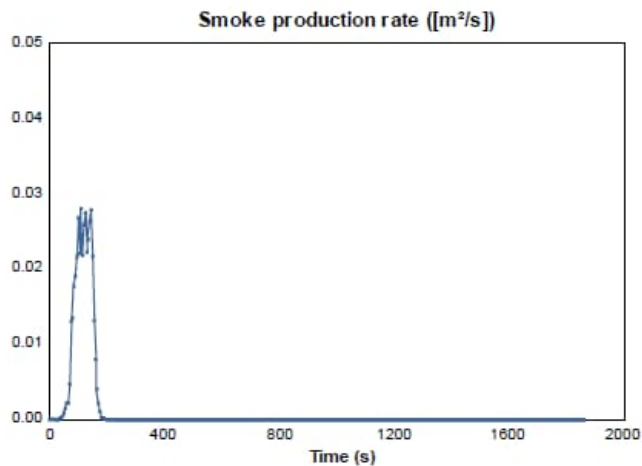
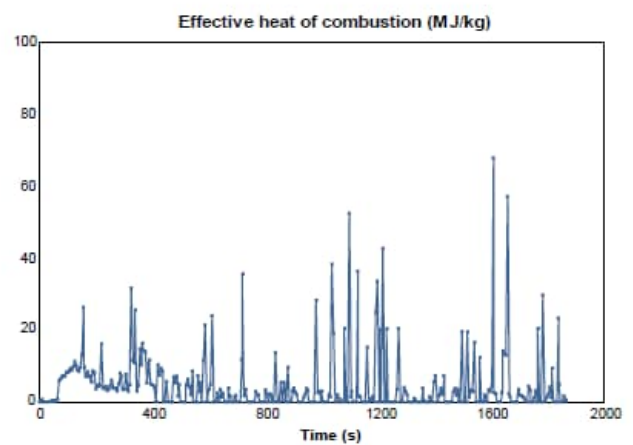
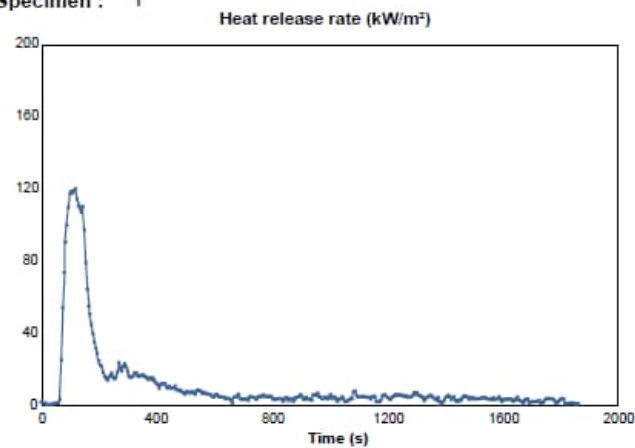
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Specimen : 1



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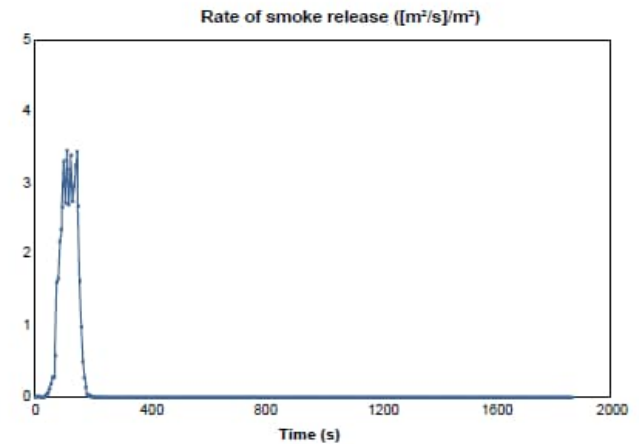
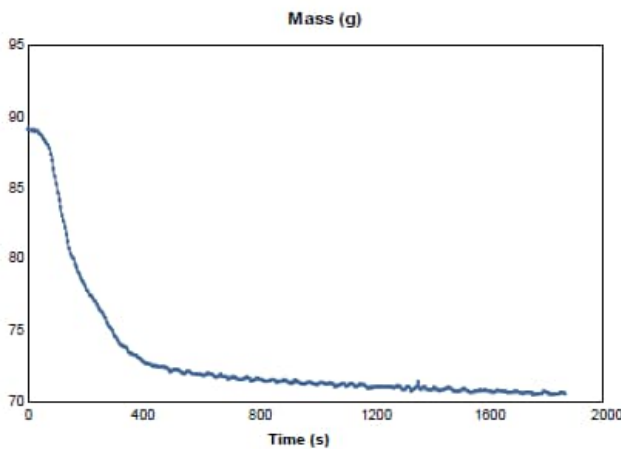
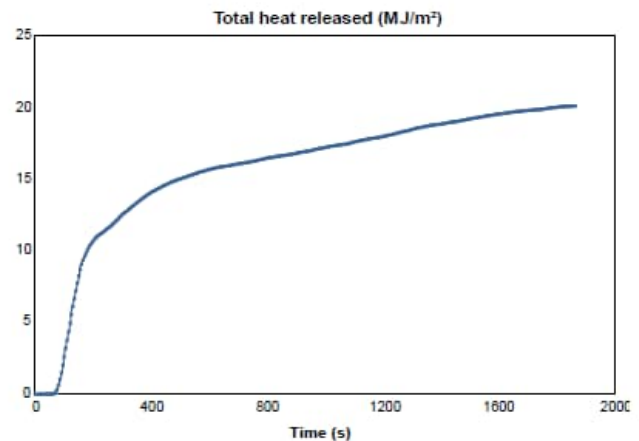
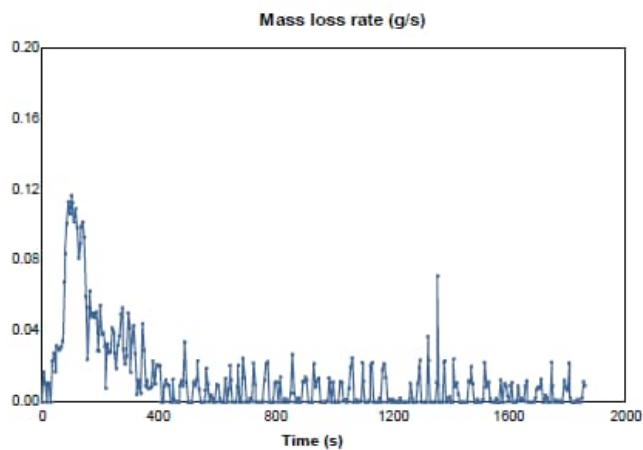
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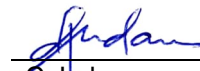
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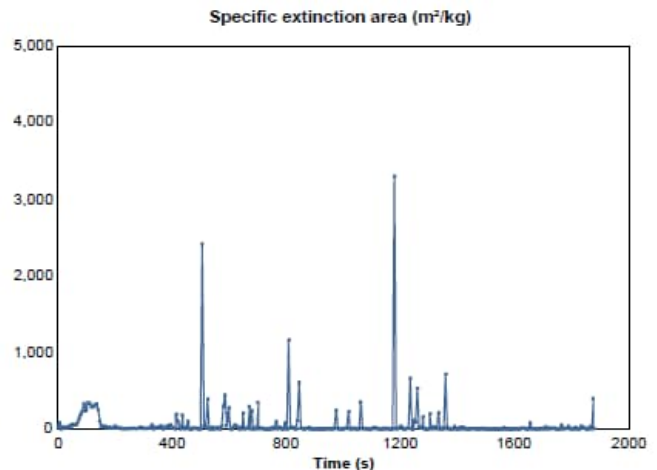
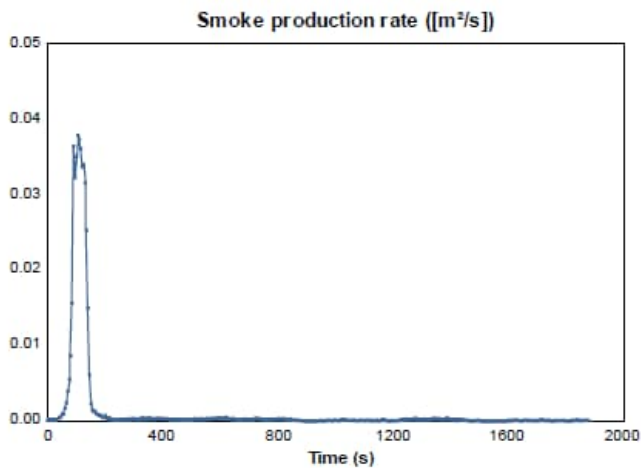
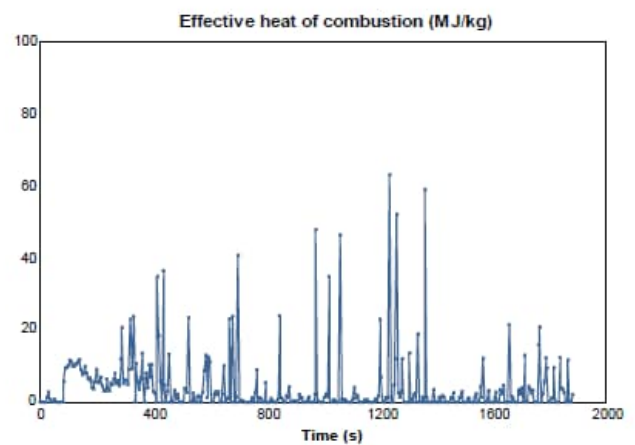
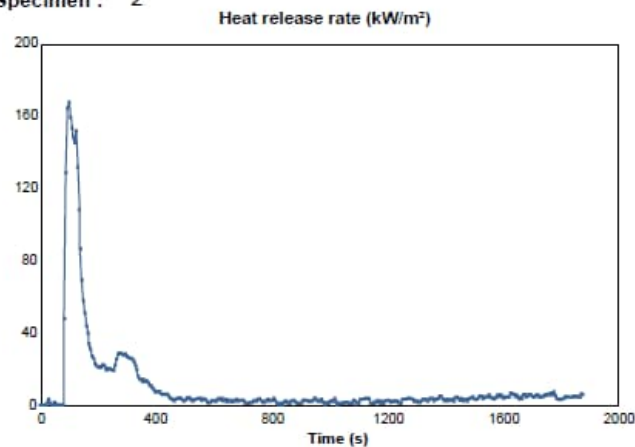
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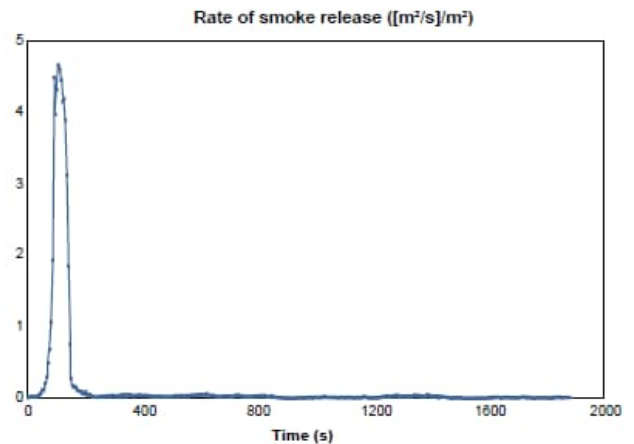
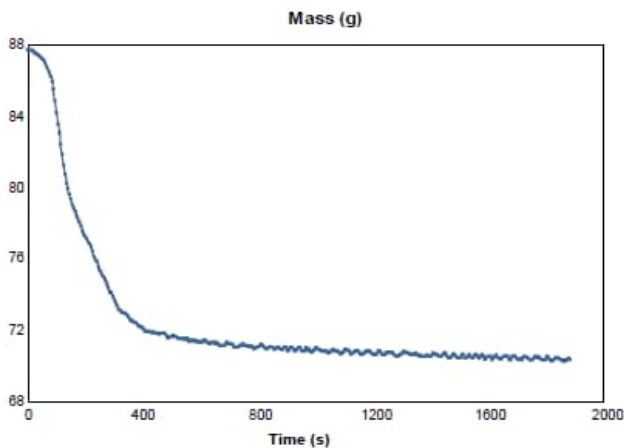
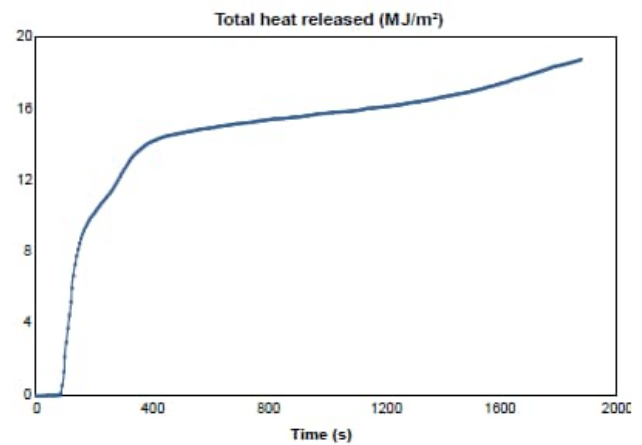
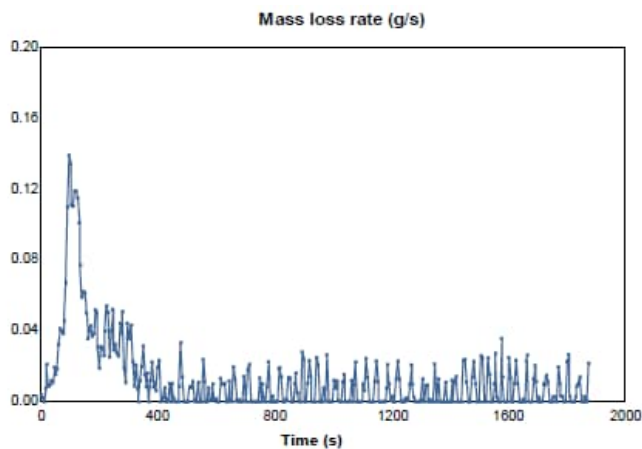
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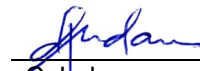
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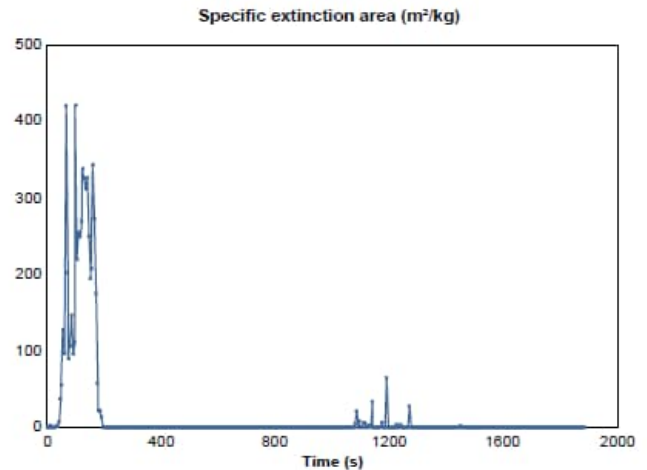
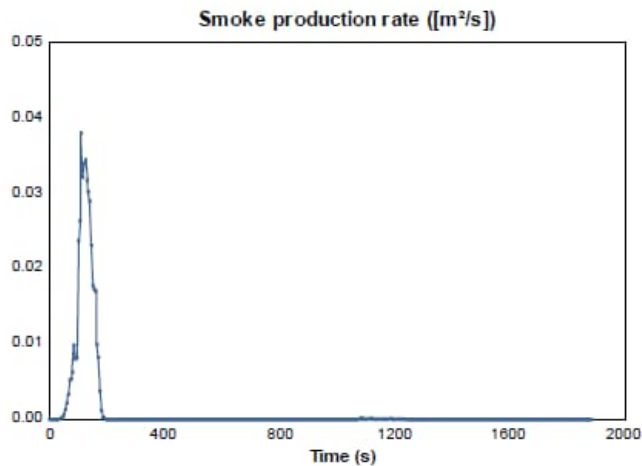
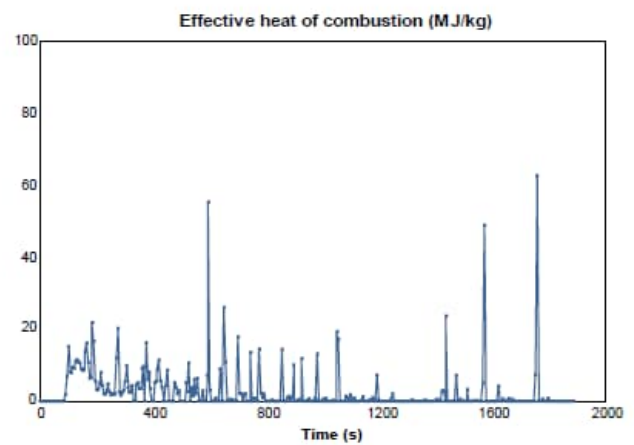
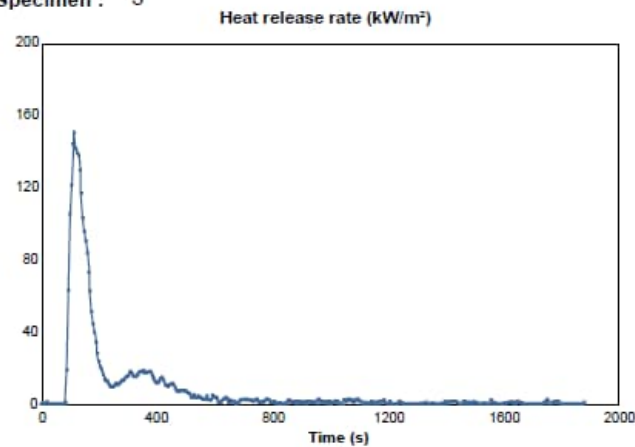
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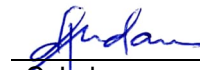
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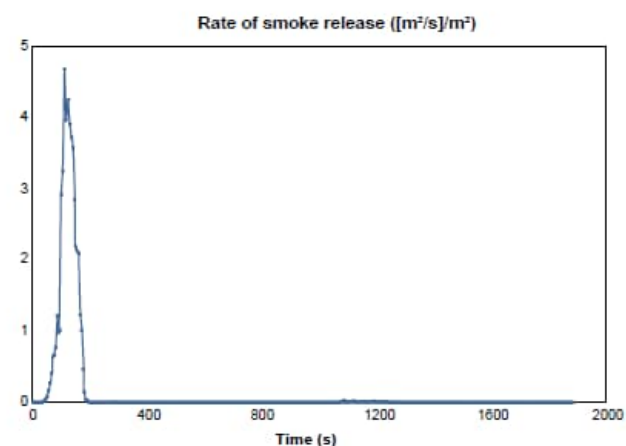
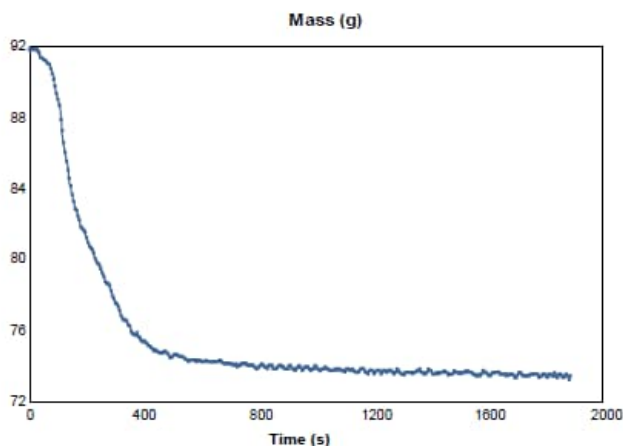
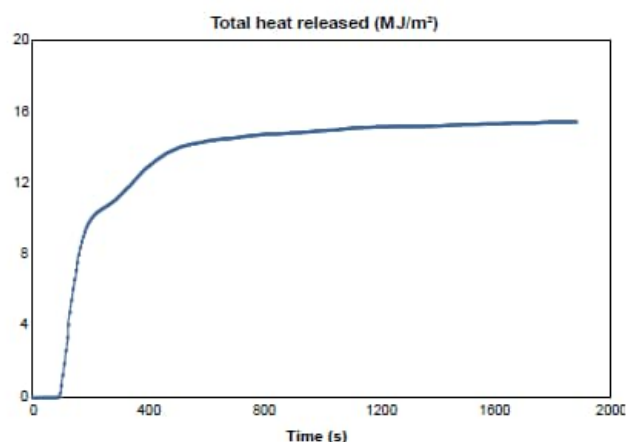
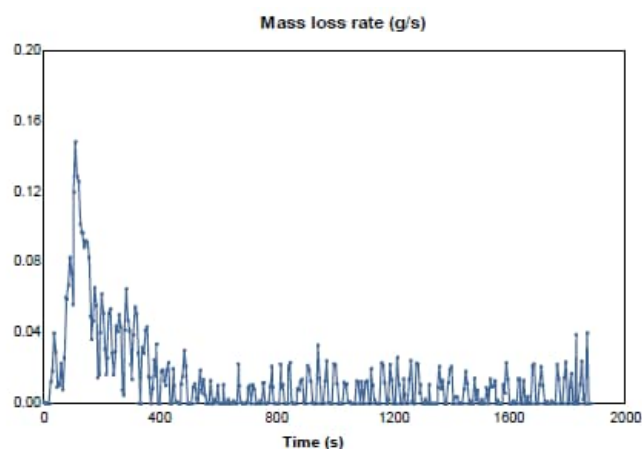
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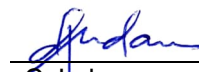
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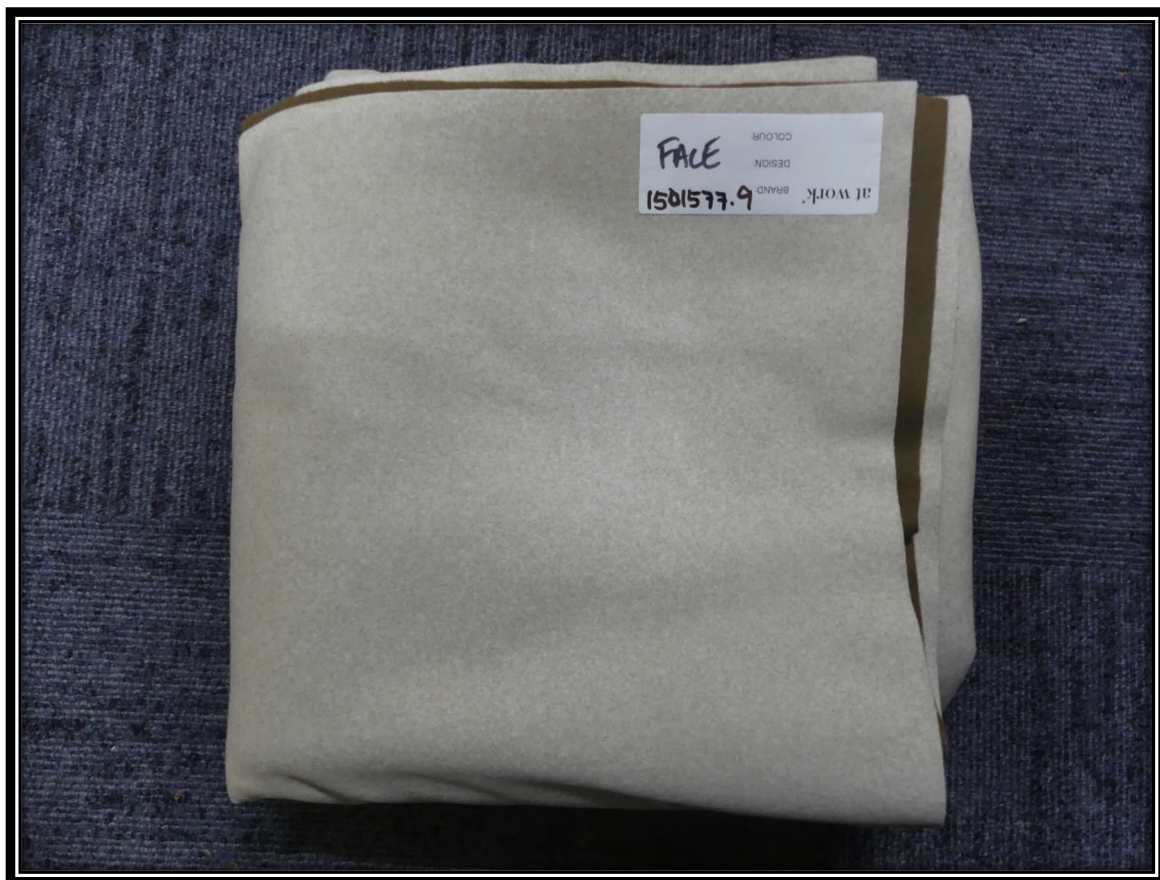
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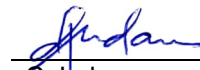
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