



## No. 1365268.0B

(Please quote this number in all correspondence)

CLIENT: Textilia Ltd. PO Box 37 378 Parnell, Auckland	SAMPLE RECEIVED FROM: Textilia Ltd.	Date Received: 11.3.21
Attn.: Therese Ronalde	SAMPLE DESCRIPTION: Upholstery woven fabric – Kyoto Sumi Nominal Composition – 90% Wool 10% Polyamide Nominal Weight – 469 grammes per lineal metre	
Client Order No.:	Client Reference:	1 of 15

### 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 21-001259).

	Specimens						
	1	2	3	4	5	6	Mean
Average Heat Release Rate	6.5	5.4	7.9	6.8	5.3	4.7	6.1 kW/m <sup>2</sup>
Average Specific Extinction Area	4.2	0.0	17.4	0.0	15.4	29.0	11.0 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						
	1	2	3	4	5	6	Mean
Irradiance	50	50	50	50	50	50	50 kW/m <sup>2</sup>
Exhaust Flow Rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024 m <sup>3</sup> /sec.
Time to Sustained Flaming	115	89	27	28	32	99	65 sec.
Test Duration	1915	1889	1827	1828	1832	1899	1865 sec.
Peak Heat Release After Ignition	55.6	65.9	141.7	137.9	129.6	77.7	101.4 kW/m <sup>2</sup>
Average Heat at 180 s	15.7	19.1	39.8	40.2	36.6	19.6	28.5 kW/m <sup>2</sup>
Average Heat at 300 s	15.2	16.4	28.6	28.5	26.4	16.9	22.0 kW/m <sup>2</sup>
Total Heat Released	11.6	10.0	14.5	12.7	11.4	8.9	11.5 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	7.1	5.0	6.8	5.8	4.7	4.9	5.7 MJ/kg
Initial Thickness	11	11	11	11	11	11	11 mm
Initial Mass	61.6	63.1	61.4	61.5	60.3	61.4	61.6 g
Mass at Sustained Flaming	57.2	60.5	60.6	61.2	59.5	57.8	59.5 g
Mass Remaining	48.3	47.5	44.4	44.2	43.6	47.4	45.9 g
Mass Loss	1641.0	1929.6	2102.9	2137.1	2066.9	1730.5	1934.7 g/m <sup>2</sup>
Average Rate of Mass Loss	0.9	1.1	1.2	1.2	1.1	1.0	1.1 g/m <sup>2</sup> .s
Total Smoke Production (non-flaming phase)	395.7	221.9	31.0	21.5	49.1	292.8	168.7 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	22.8	50.3	49.8	28.8	45.4	66.4	43.9 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	418.5	272.2	80.8	50.3	94.5	359.2	212.6 m <sup>2</sup> /m <sup>2</sup>
Specimen Surface Area	-	-	-	-	-	-	-
C-Factor (Calibration Constant)	0.04257	0.04257	0.04257	0.04257	0.04257	0.04257	-

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Signatory

  
Cludan  
Signatory

12/04/2021

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



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Additional Observation:	None
Difficulties Encountered During Testing:	None

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

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.

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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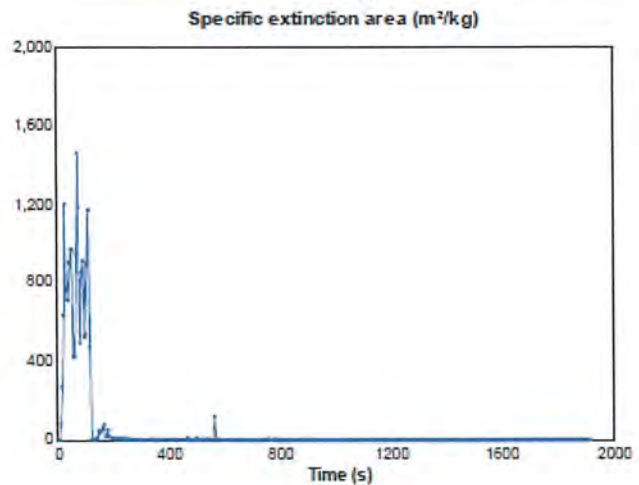
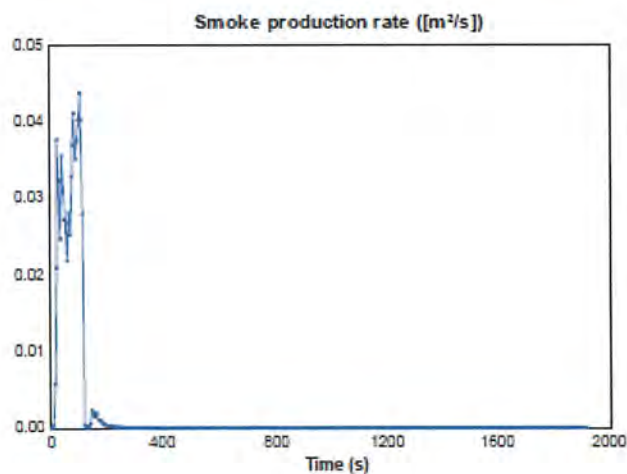
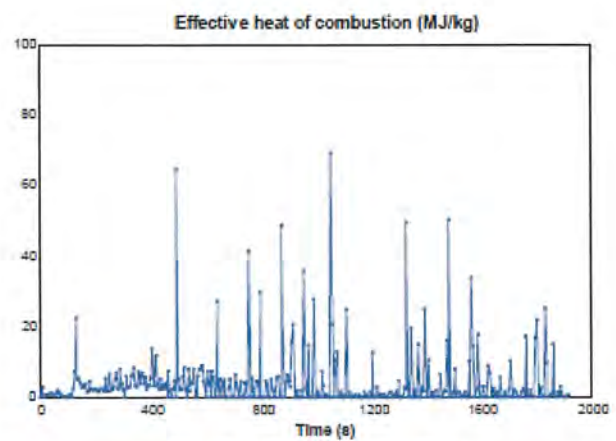
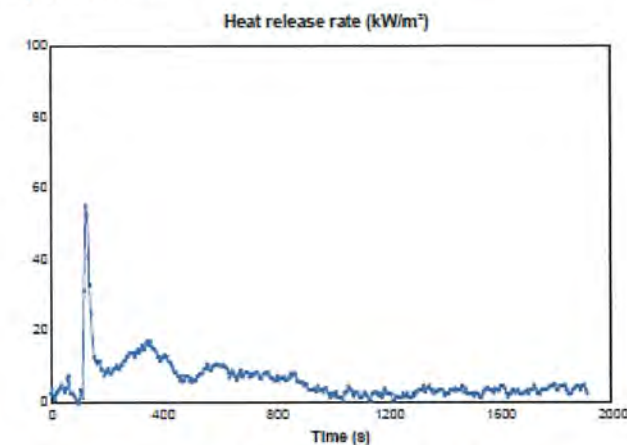
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Specimen : 1



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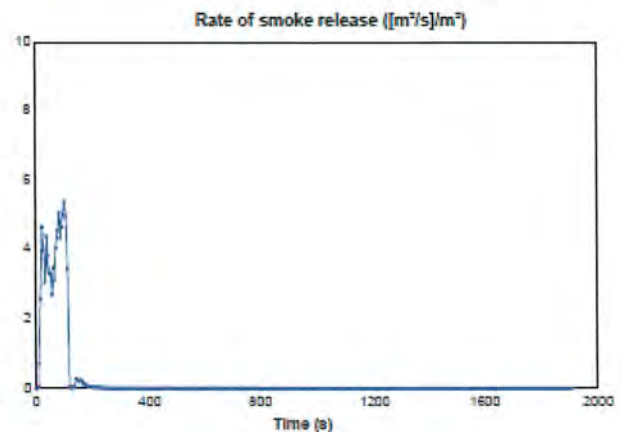
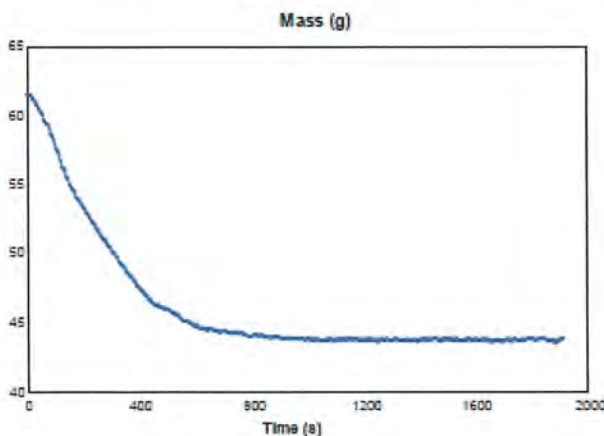
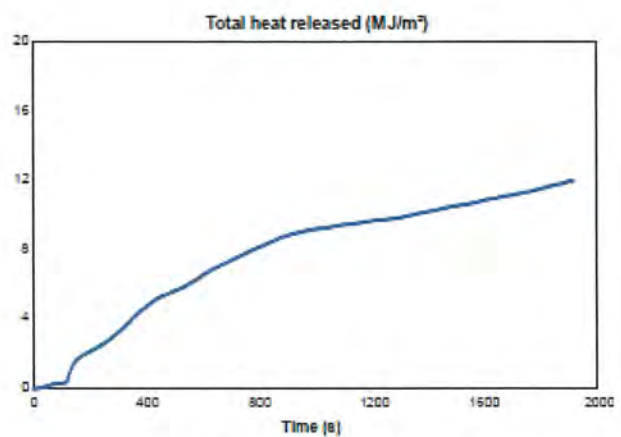
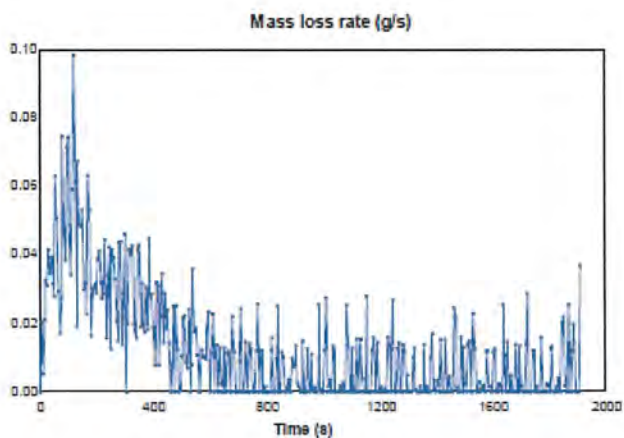
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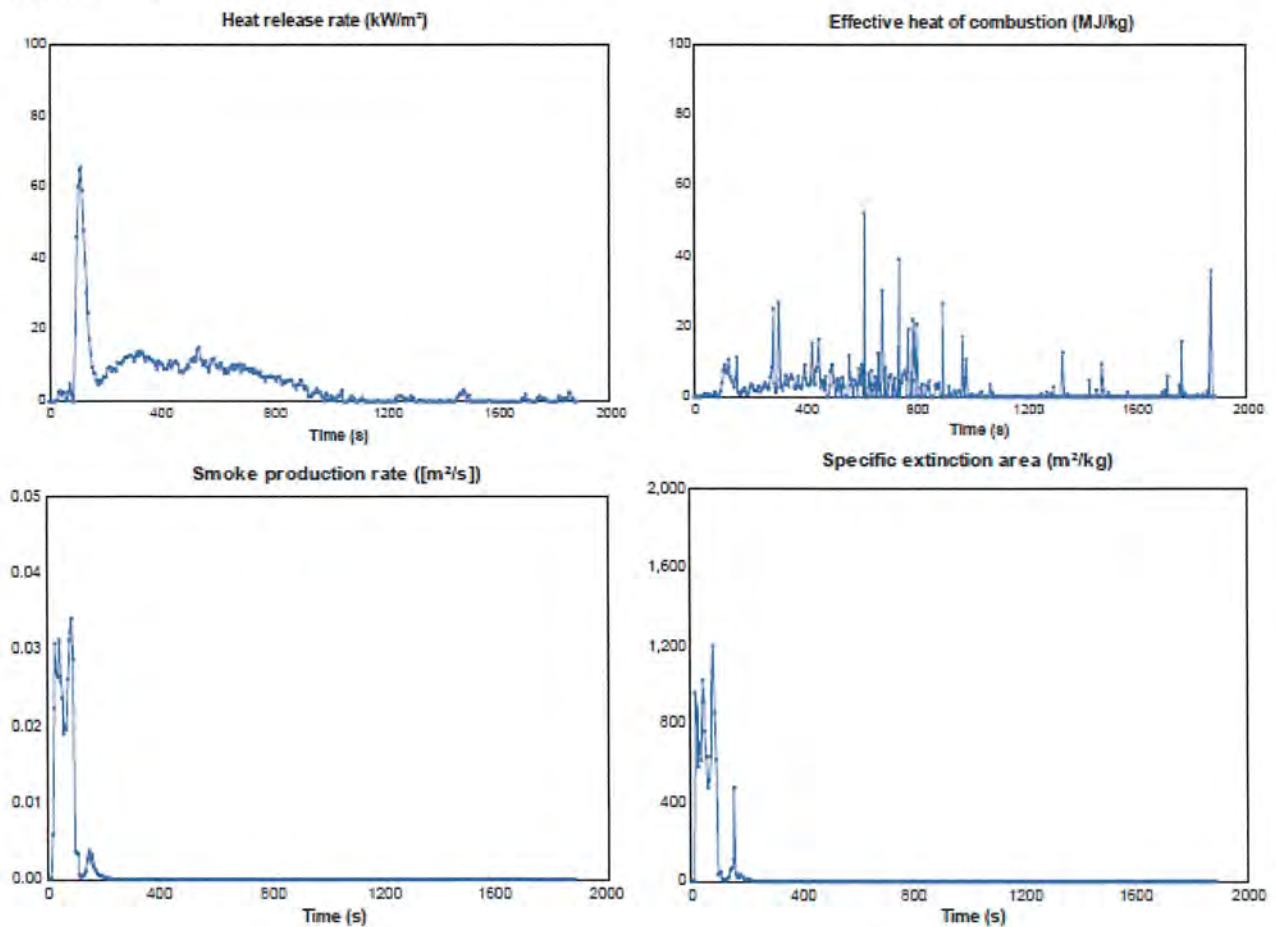
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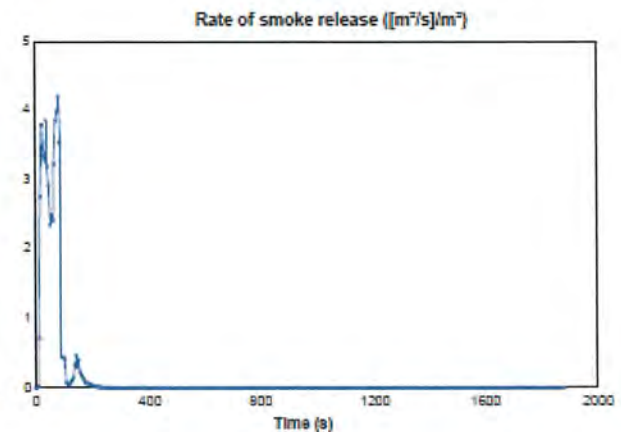
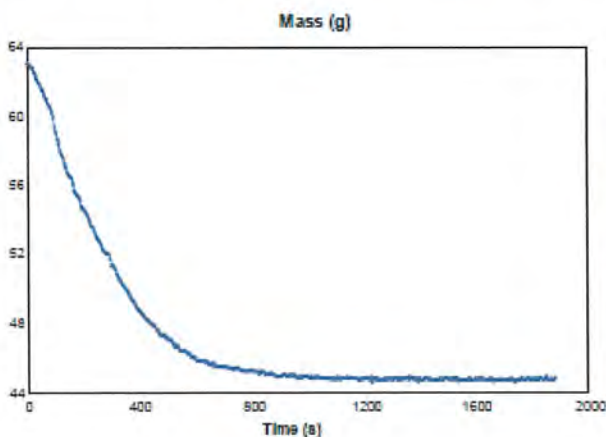
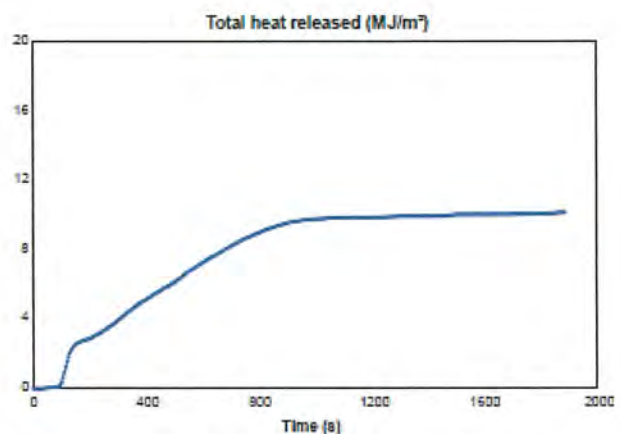
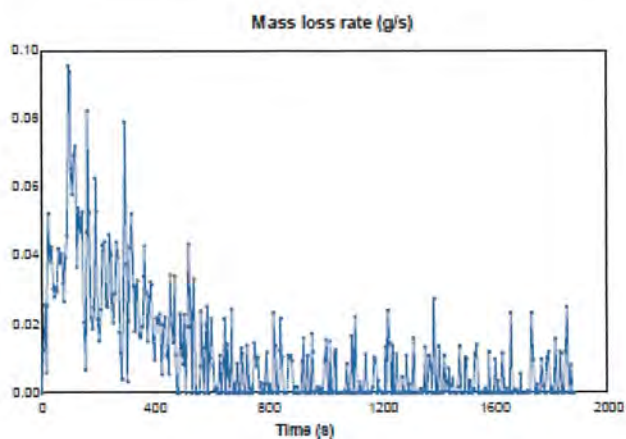
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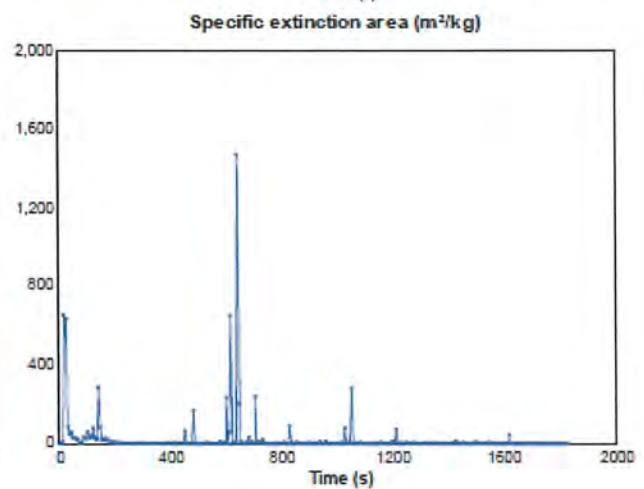
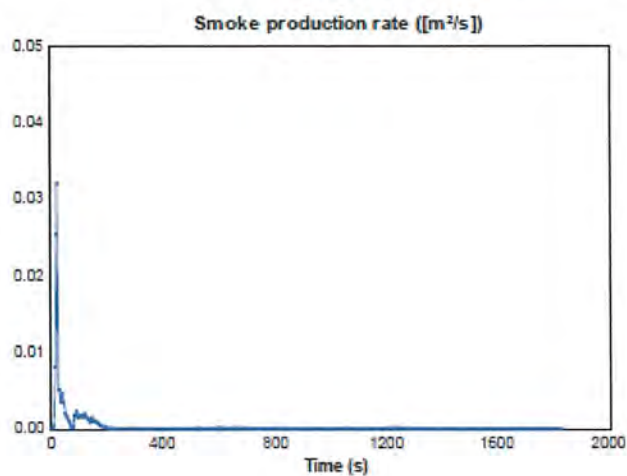
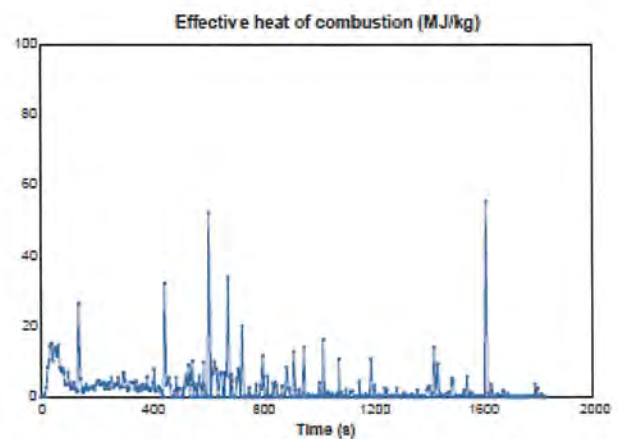
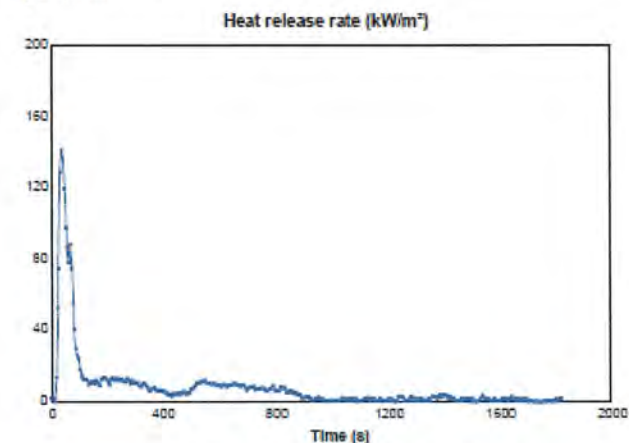
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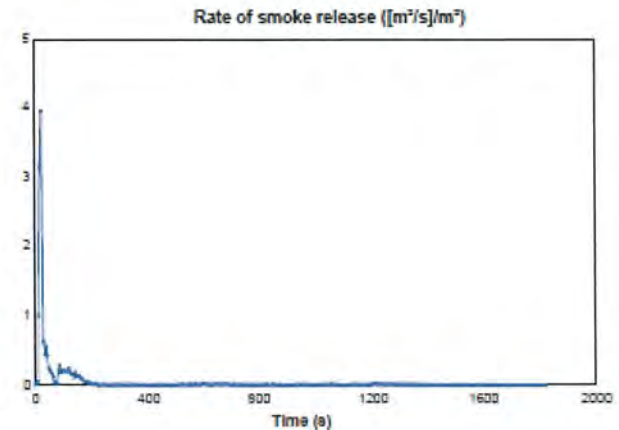
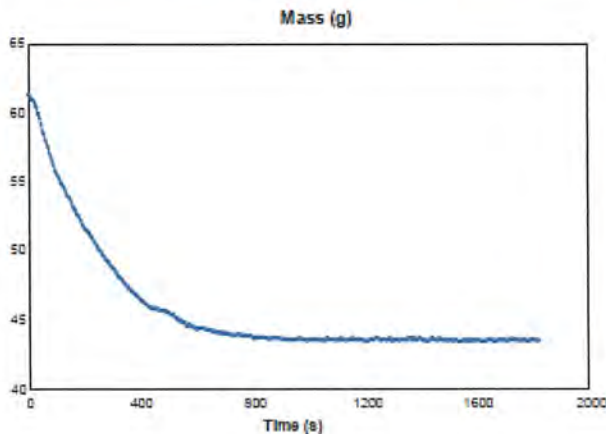
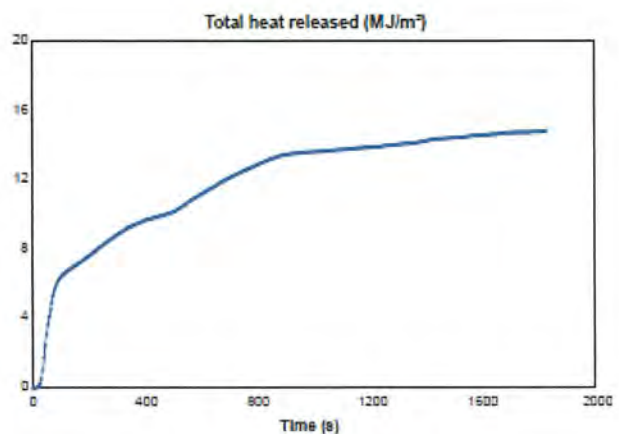
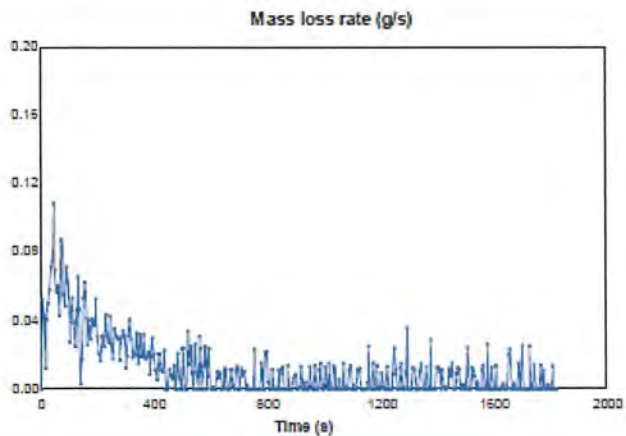
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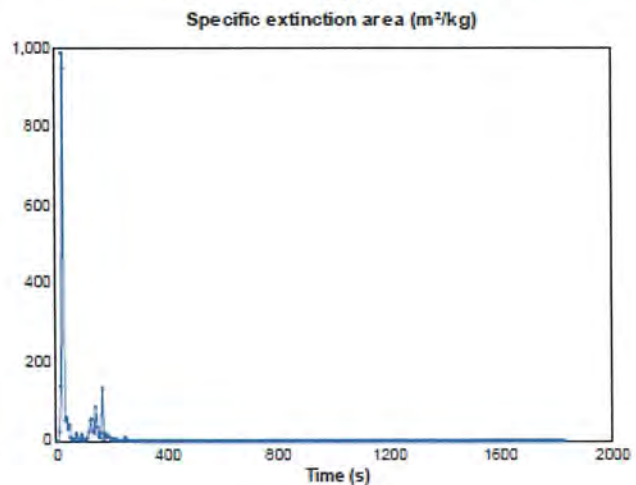
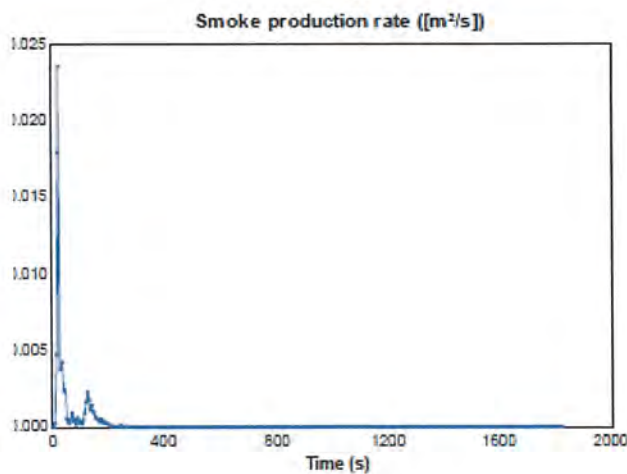
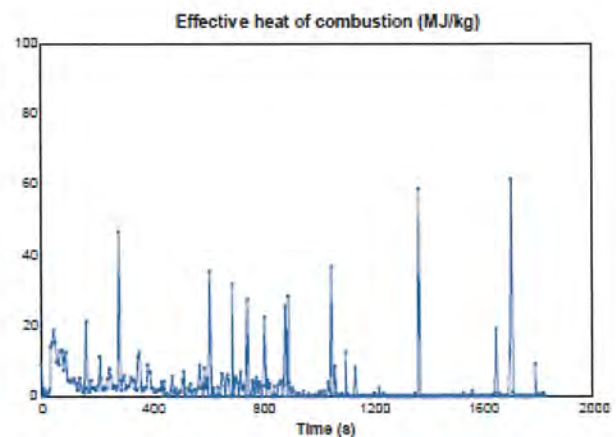
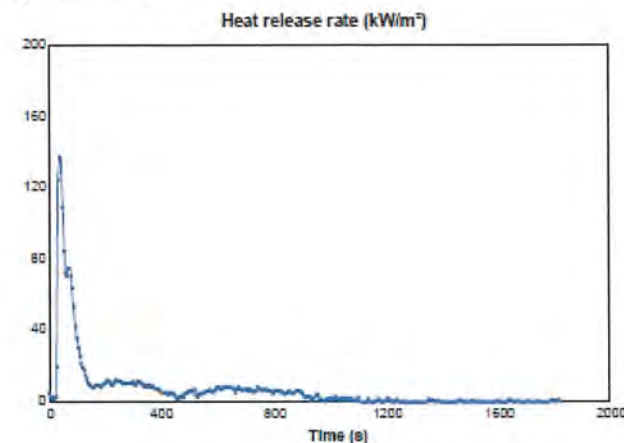
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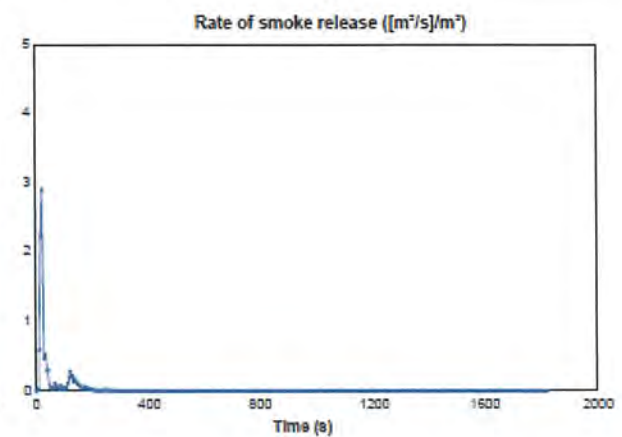
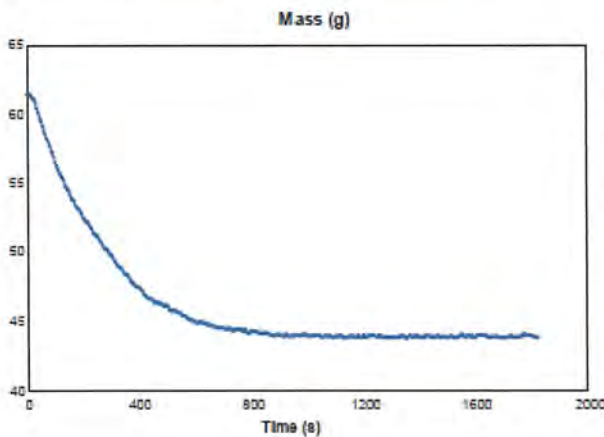
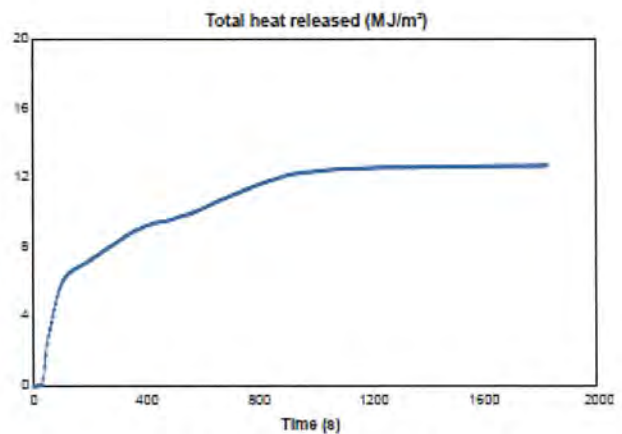
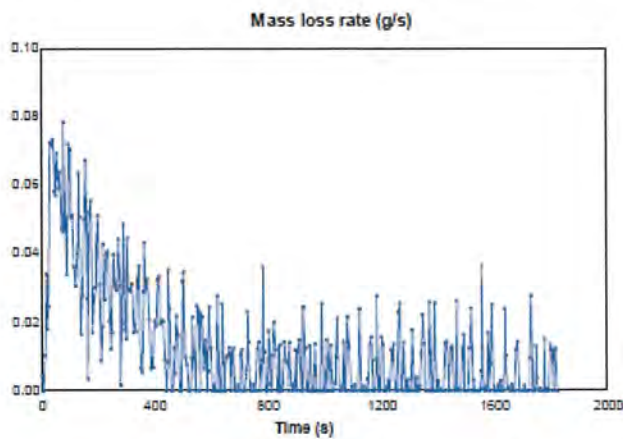
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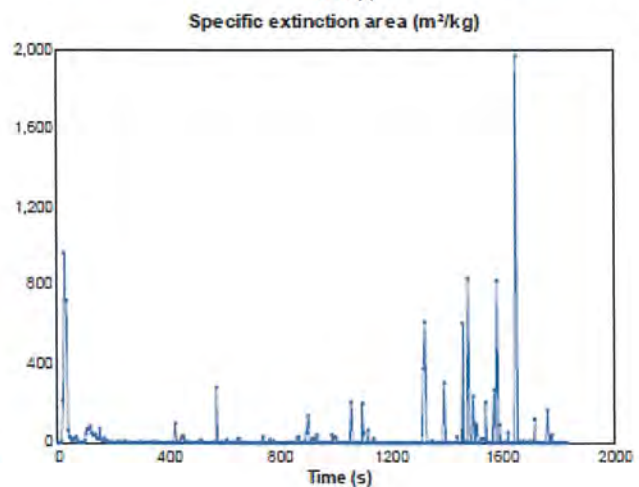
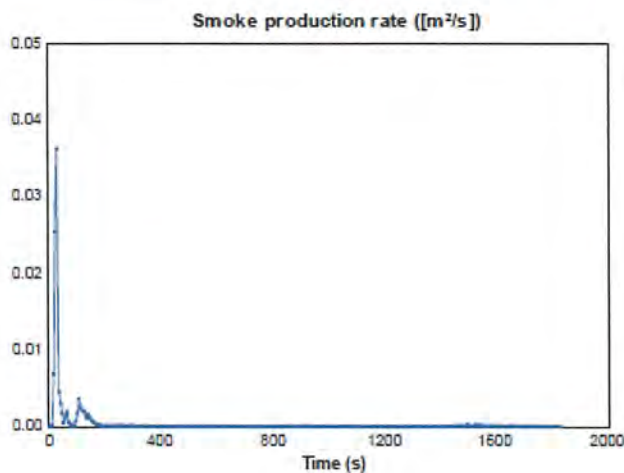
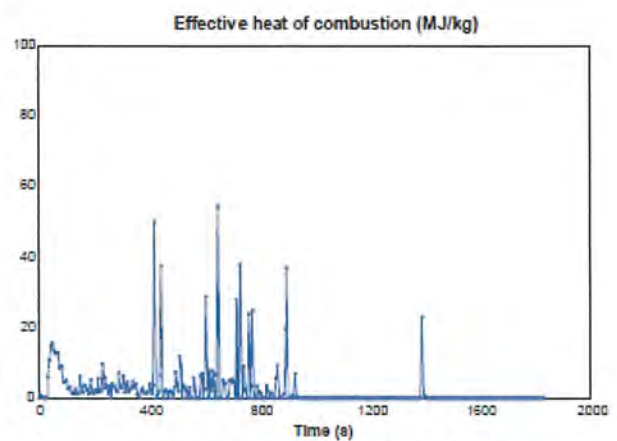
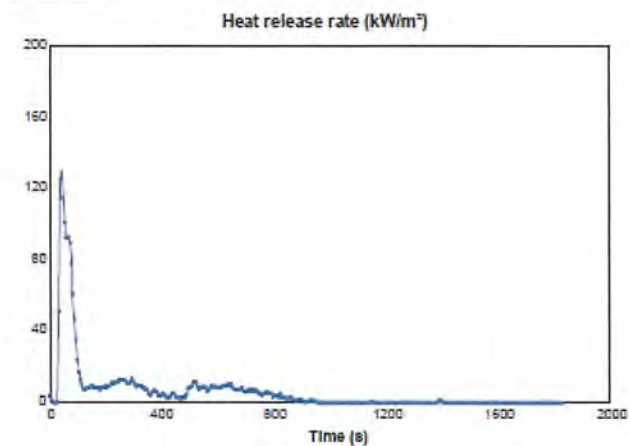
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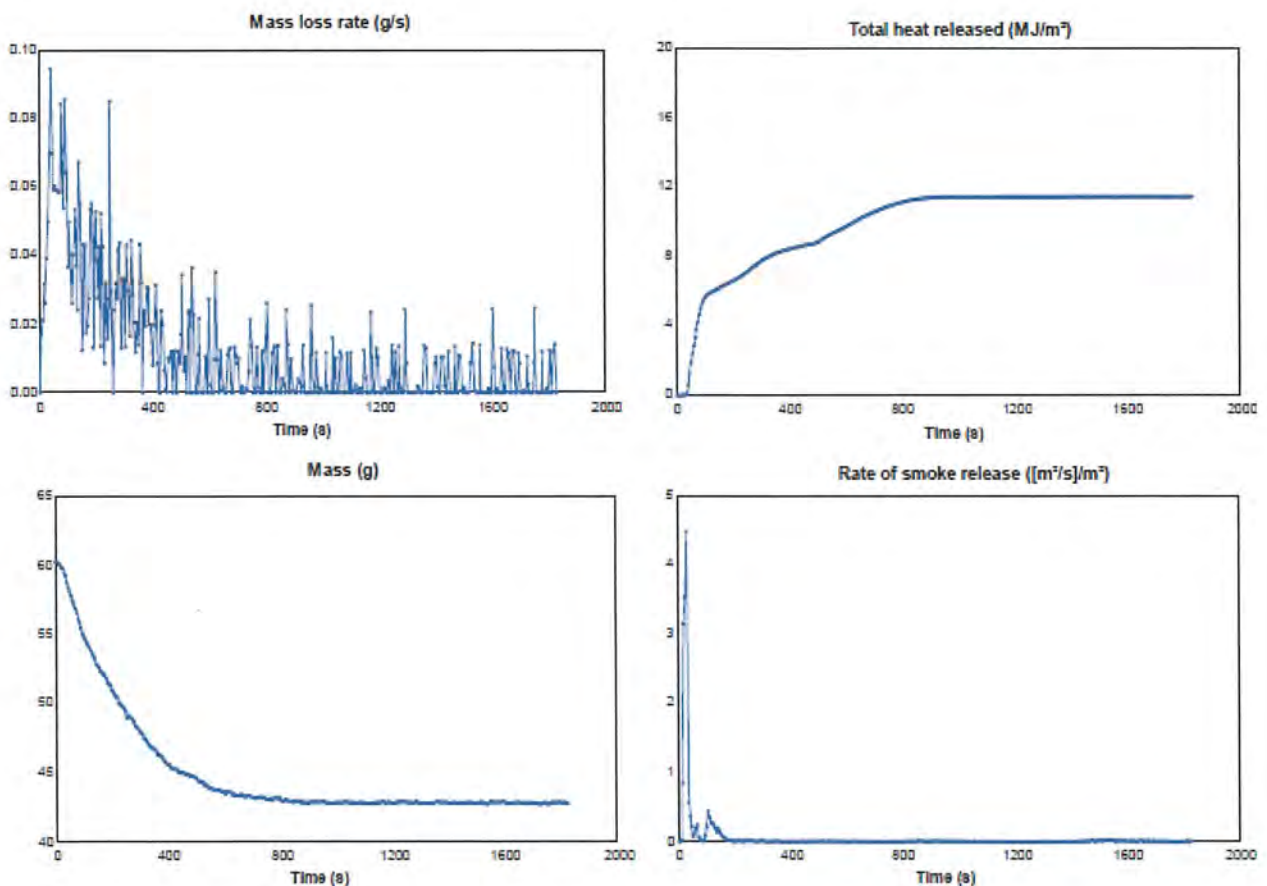
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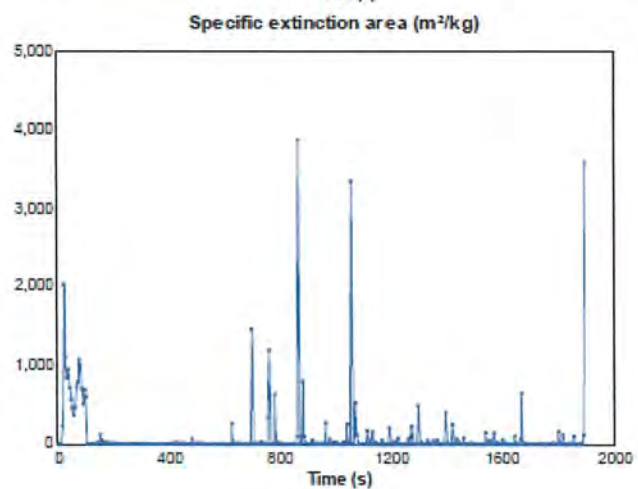
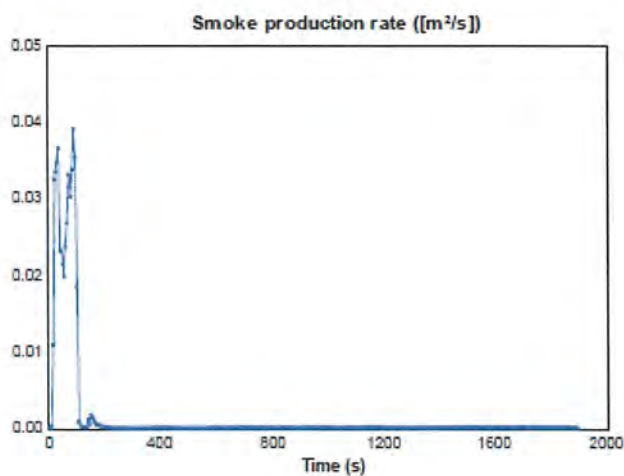
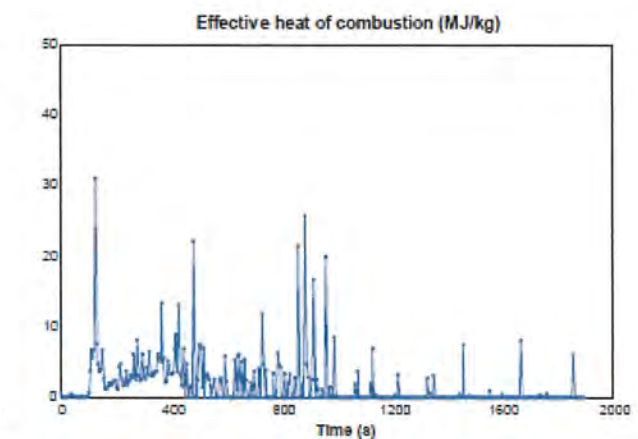
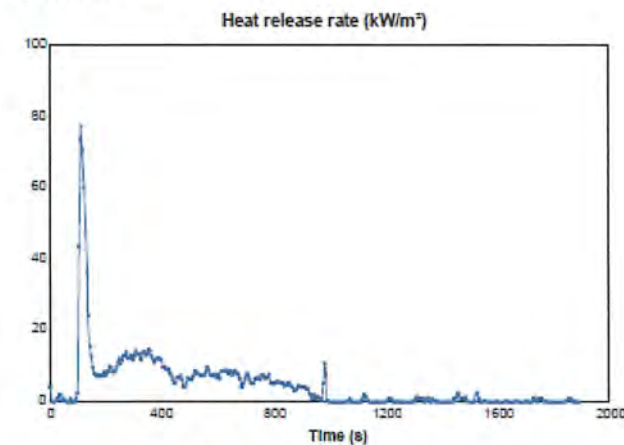
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SAMPLE RECEIVED FROM:  
Textilia Ltd.

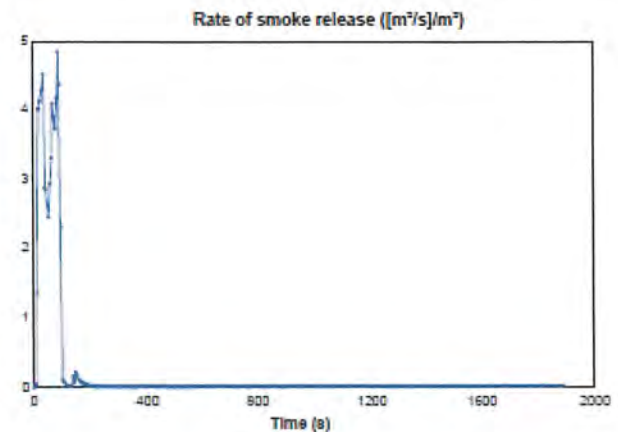
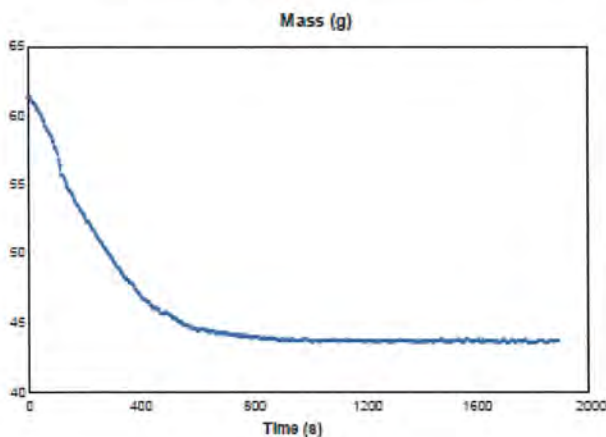
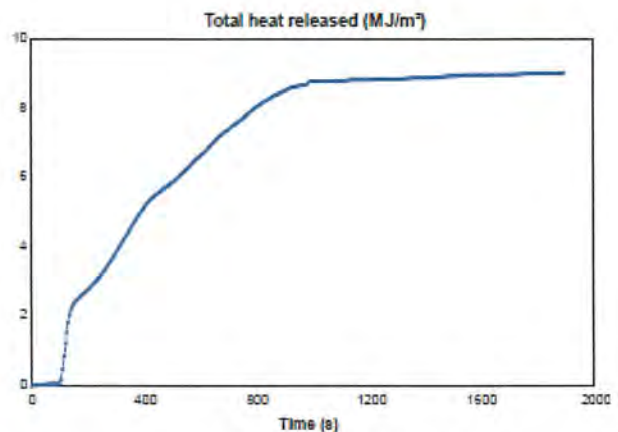
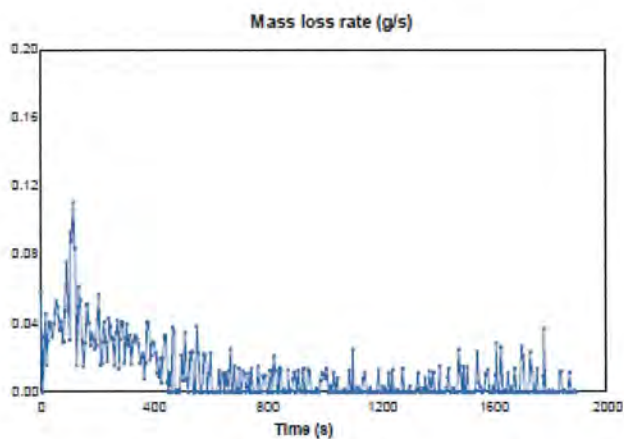
Date Received: 11.3.21

SAMPLE DESCRIPTION:  
Upholstery woven fabric – Kyoto Sumi  
Nominal Composition – 90% Wool 10% Polyamide  
Nominal Weight – 469 grammes per lineal metre

Client Order No.:

Client Reference:

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**“THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED”**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

12/04/2021