



**No. 1490353.8A**

(Please quote this number in all correspondence)

CLIENT:  
Warwick Fabrics Ltd.  
PO Box 100-721  
NSMC, Auckland

Attn.: Jessica McLellan

SAMPLE RECEIVED FROM:  
Warwick Fabrics Ltd.

SAMPLE DESCRIPTION:  
Brown upholstery fabric – Felix Bark  
Nominal Composition – 100% Polyester  
Nominal Weight – 374gsm

Date Received: 24.11.23

Client Order No.:

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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. 23-004889).

	Specimens			Mean
	1	2	3	
Average Heat Release Rate:	47.8	53.4	46.5	49.2 kW/m <sup>2</sup>
Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia)	118.6	99.3	107.3	108.4 m <sup>2</sup> /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 <sup>2</sup>
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m <sup>3</sup> /s
Time to Sustained Flaming	62	57	72	64 sec.
Test Duration	319	313	324	319 sec.
Peak Heat Release After Ignition	312.5	342.0	216.6	290.4 kW/m <sup>2</sup>
Average Heat at 60 s	148.5	158.2	128.8	145.2 kW/m <sup>2</sup>
Average Heat at 180 s	62.8	70.3	61.4	64.8 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	12.1	13.6	11.6	12.5 MJ/m <sup>2</sup>
Average Effective Heat of Combustion	8.3	8.6	7.8	8.3 MJ/kg
Initial Thickness	12	12	12	12 mm
Initial Mass	63.3	63.4	65.1	63.9 g
Mass Remaining	51.2	50.5	53.0	51.6 g
Mass Percentage Pyrolysed	19.1	20.3	18.6	19.3%
Mass Loss	1.5	1.6	1.5	1.5 kg/m <sup>2</sup>
Average Rate of Mass Loss	5.8	6.2	5.9	6.0 g/m <sup>2</sup> .s

Additional Observations: None  
Difficulties Encountered During Testing: None

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Key Technical Person

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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.

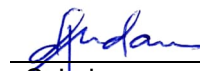
The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

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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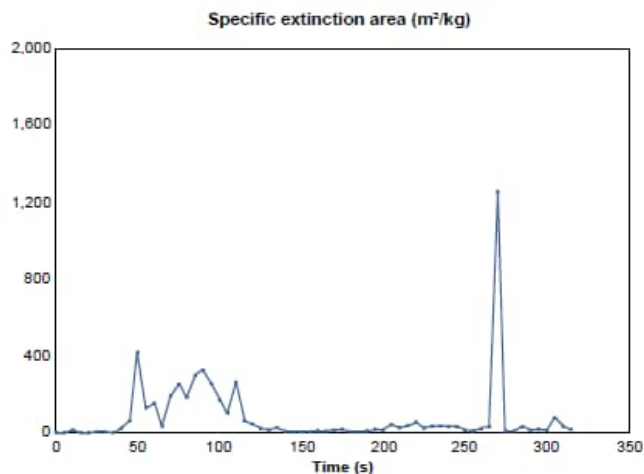
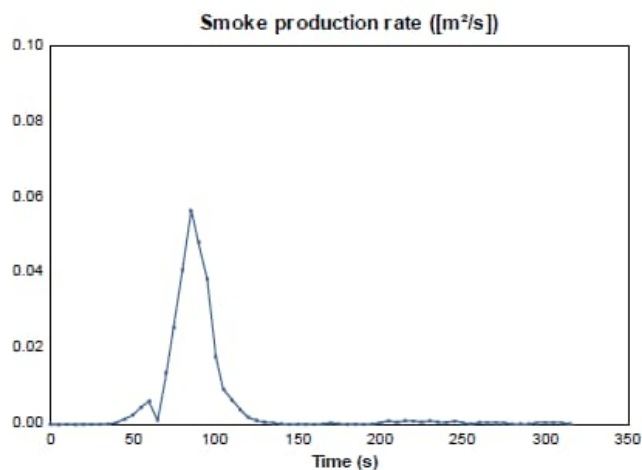
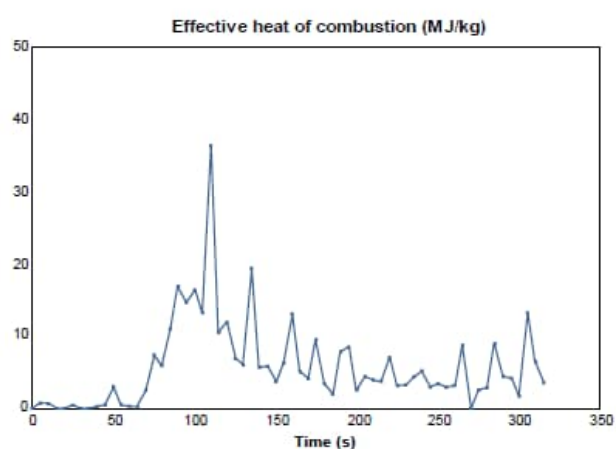
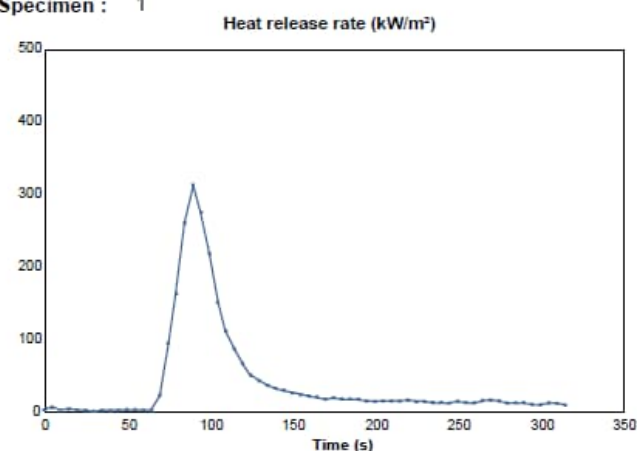
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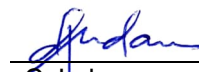
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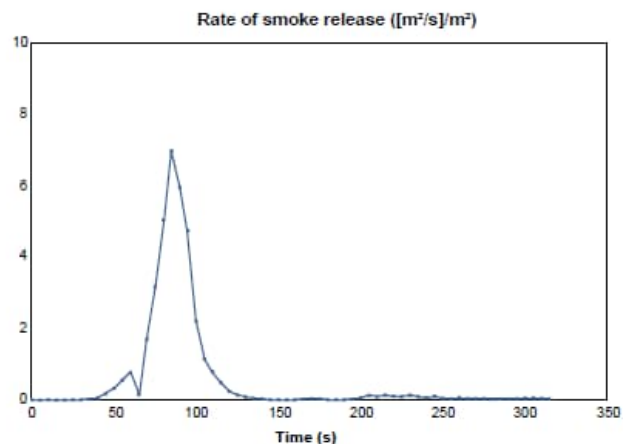
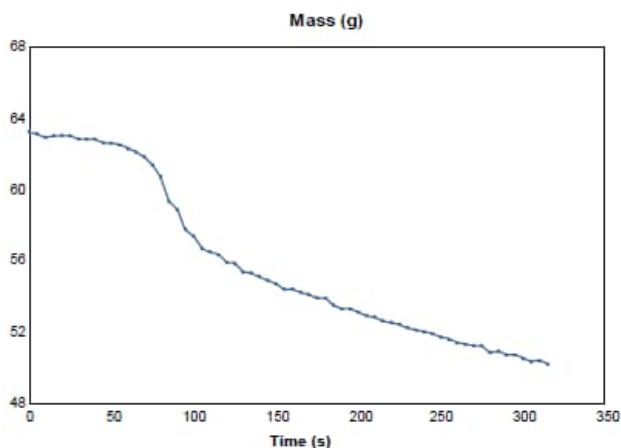
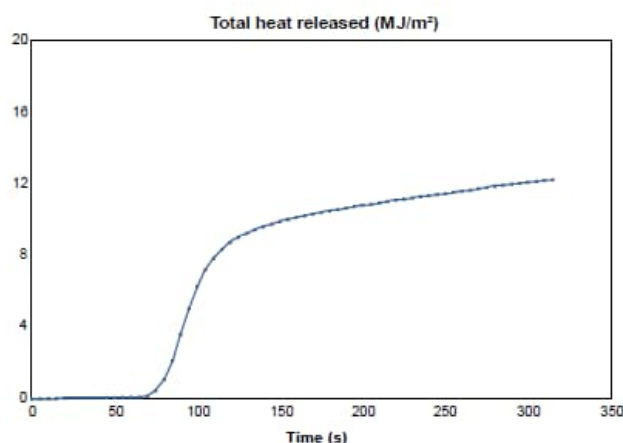
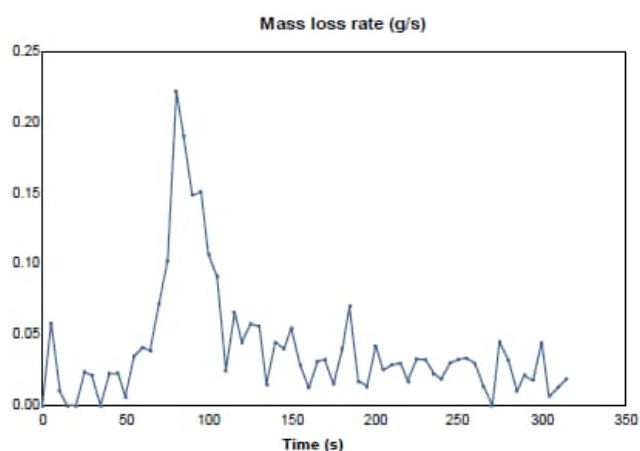
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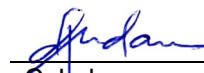
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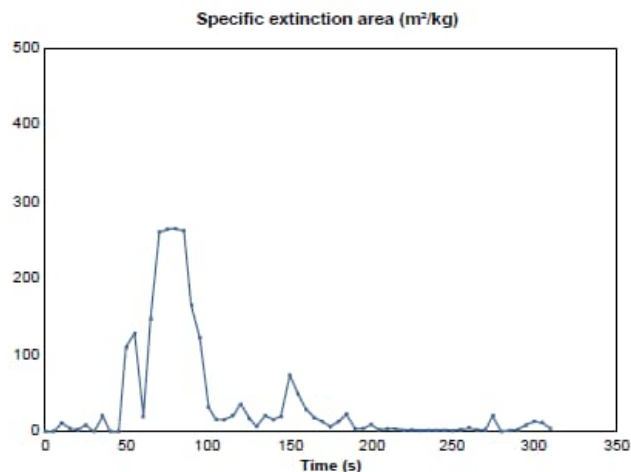
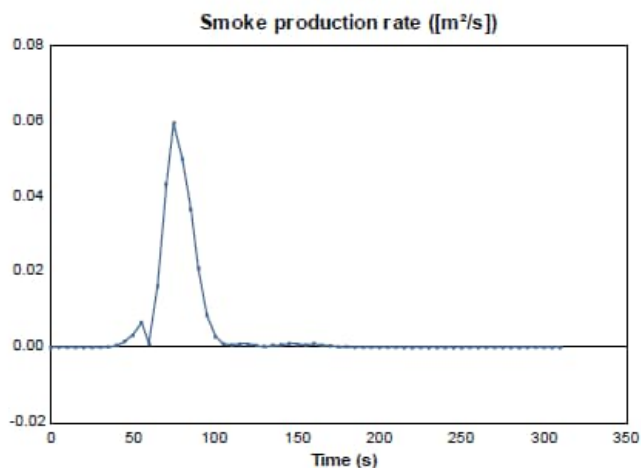
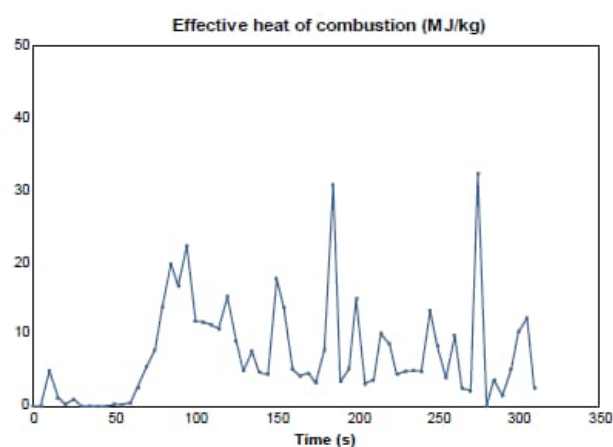
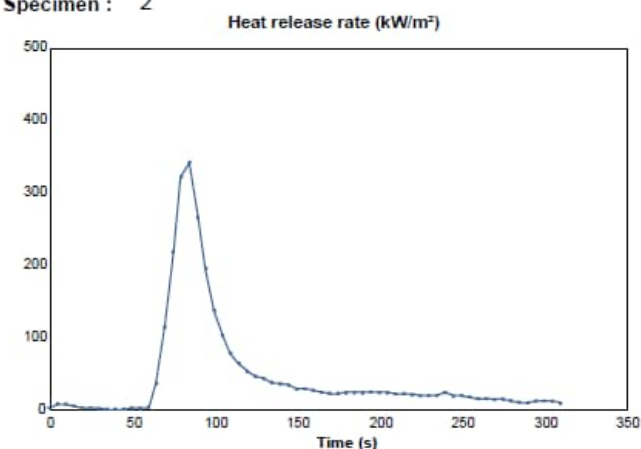
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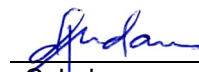
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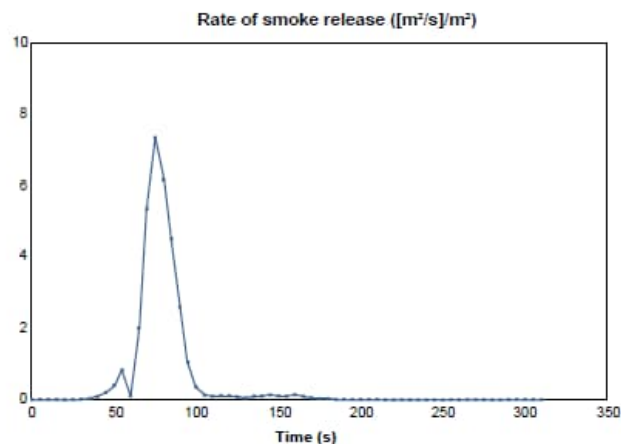
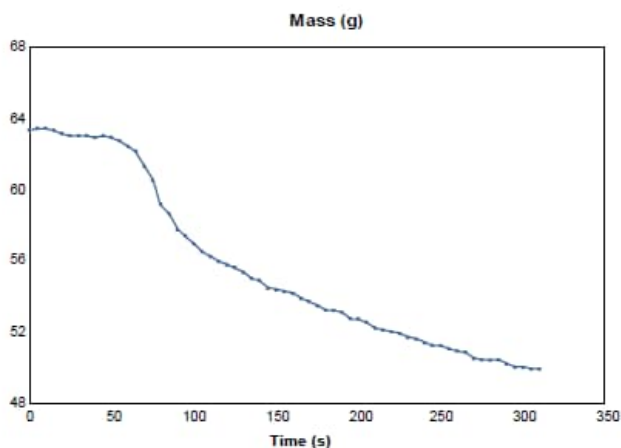
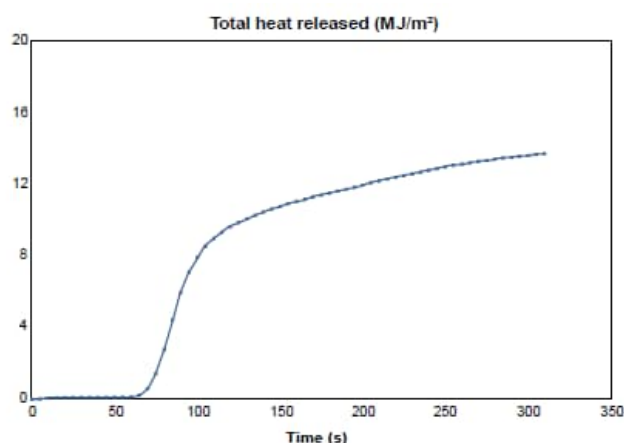
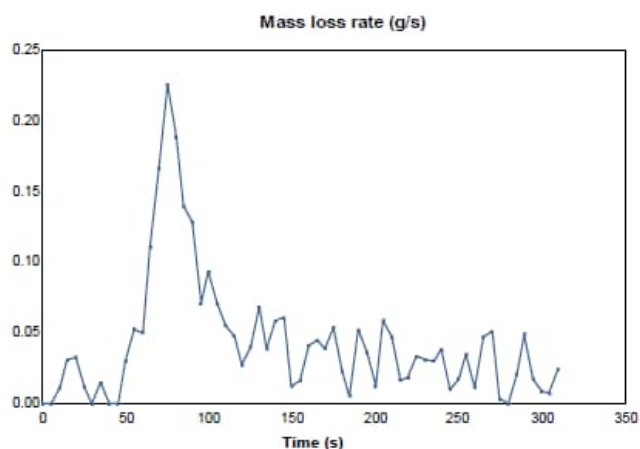
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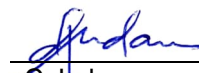
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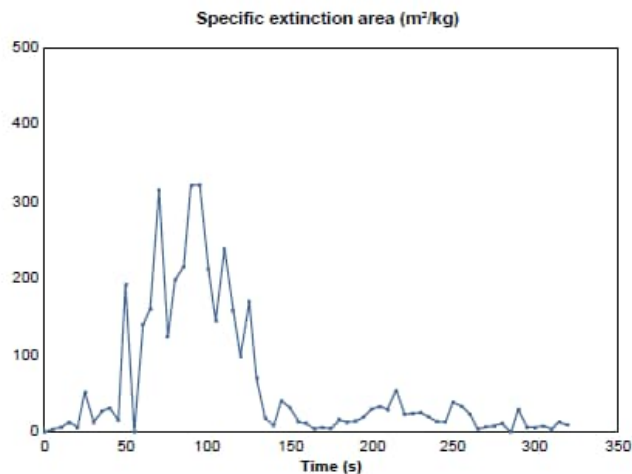
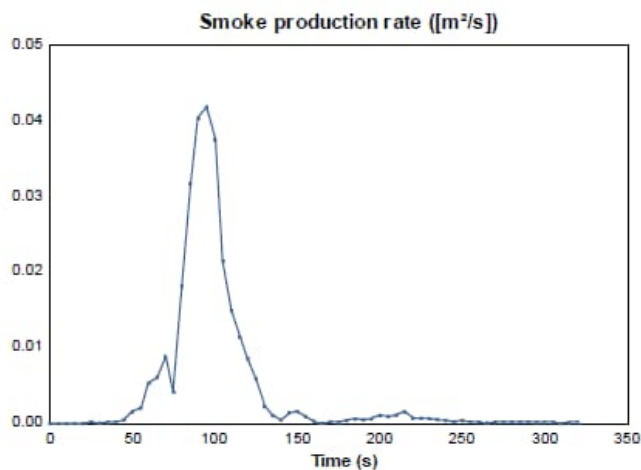
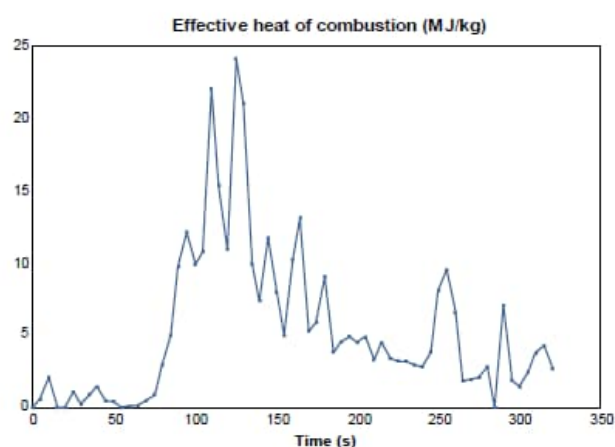
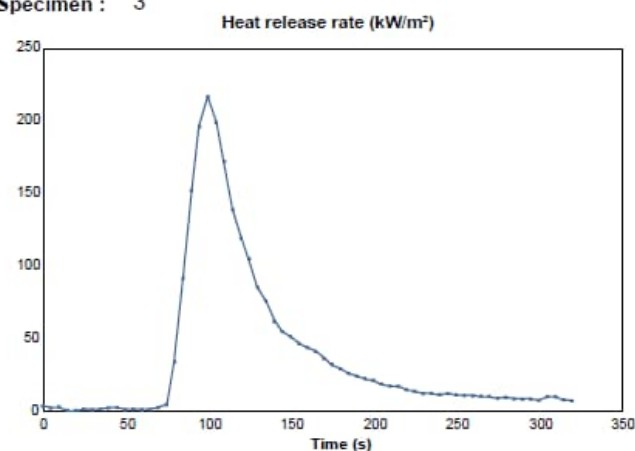
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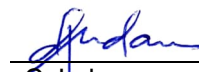
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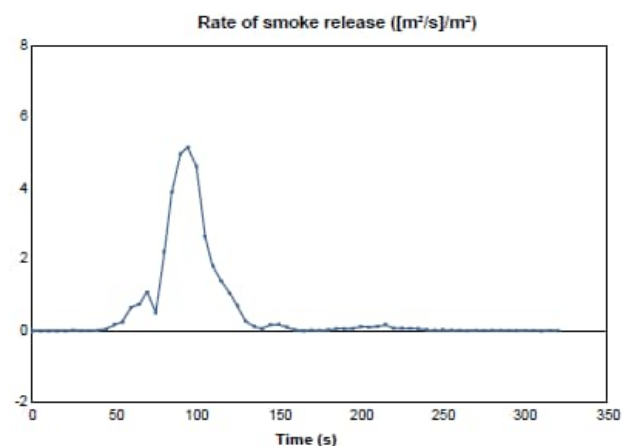
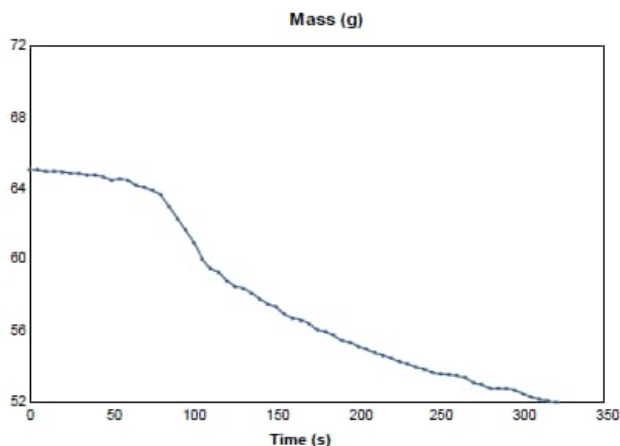
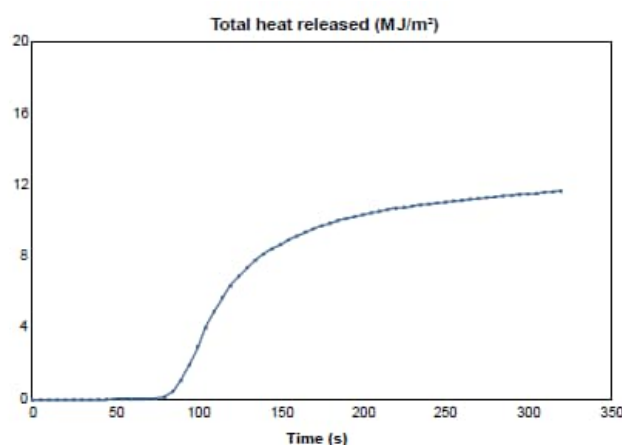
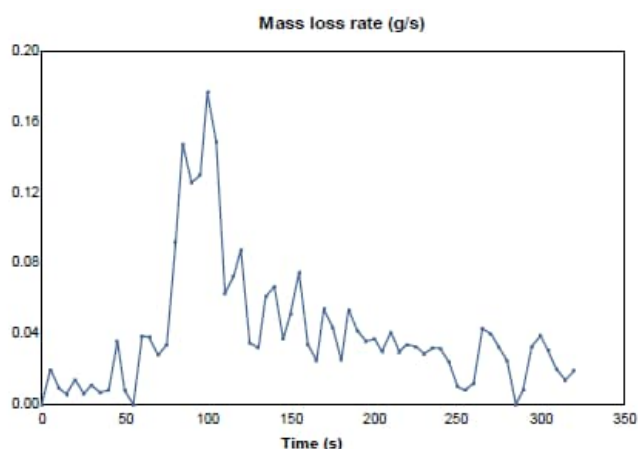
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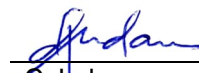
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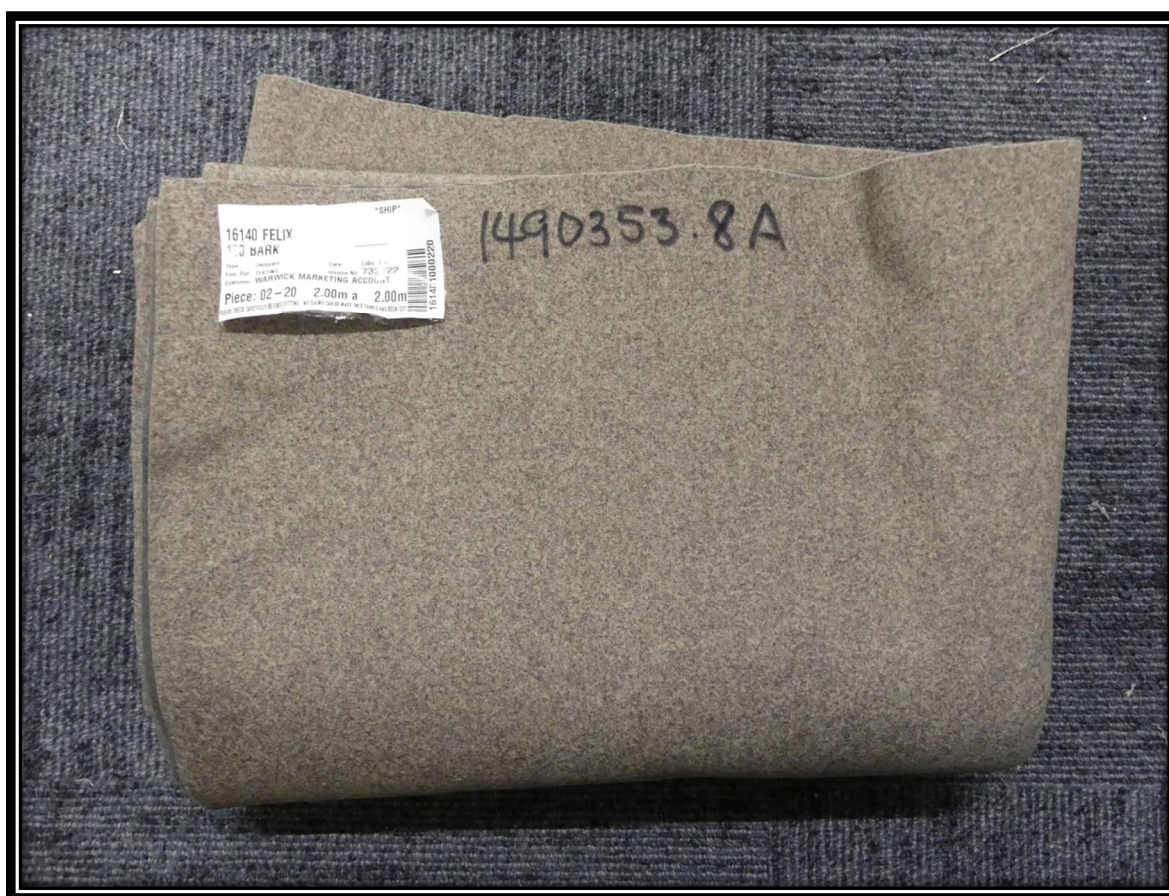
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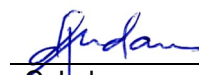
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