



No. 1272390.4

(Please quote this number in all correspondence)

CLIENT:
At Work
PO Box 37 378
Parnell, Auckland

SAMPLE RECEIVED FROM:
At Work

Date Received: 19.3.19

SAMPLE DESCRIPTION:
Black woven fabric – Centennial
Nominal Composition – 95% Wool 5% Nylon
Nominal Weight – 590g per lineal metre
End Use – Upholstery & Screen Use

Client Order No.:

Client Reference:

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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 (19-001535).


| | Specimens | | | Mean |
|---|-----------|------|------|-------------------------|
| | 1 | 2 | 3 | |
| Average Heat Release: | 60.7 | 71.7 | 65.6 | 66.0 kW/m ² |
| Average Specific Extinction Area: (According to Specification C1.10 of the Building Code of Australia) | 52.1 | 51.3 | 45.7 | 49.7 m ² /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 ² |
| Exhaust Flow Rate | 0.024 | 0.024 | 0.024 | 0.024 m ³ /s |
| Time to Sustained Flaming | 14 | 13 | 14 | 14 sec. |
| Test Duration | 198 | 196 | 206 | 200 sec. |
| Peak Heat Release After Ignition | 192.4 | 194.6 | 181.6 | 189.5 kW/m ² |
| Average Heat at 60 s | 106.3 | 109.7 | 106.5 | 107.5 kW/m ² |
| Average Heat at 180 s | 61.1 | 71.8 | 66.6 | 66.5 kW/m ² |
| Average Heat at 300 s | n/a | n/a | n/a | n/a kW/m ² |
| Total Heat Released | 11.1 | 13.0 | 12.6 | 12.2 MJ/m ² |
| Ave. Effective Heat of Combustion | 10.5 | 12.3 | 11.5 | 11.4 MJ/kg |
| Initial Thickness | 7 | 7 | 7 | 7 mm |
| Initial Mass | 81.5 | 82.4 | 81.1 | 81.7 g |
| Mass at Sustained Flaming | 81.3 | 82.2 | 80.9 | 81.5 g |
| Mass Remaining | 73.0 | 74.0 | 72.2 | 73.1 g |
| Mass Percentage Pyrolysed | 10.4 | 10.2 | 11.0 | 10.5 % |
| Mass Loss | 1.0 | 1.0 | 1.1 | 1.1 kg/m ² |
| Average Rate of Mass Loss | 5.8 | 5.8 | 5.7 | 5.7 g/m ² .s |

Additional Observations: None
Difficulties Encountered During Testing: None

L A Greer
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C Judan
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08/05/2019

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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 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.

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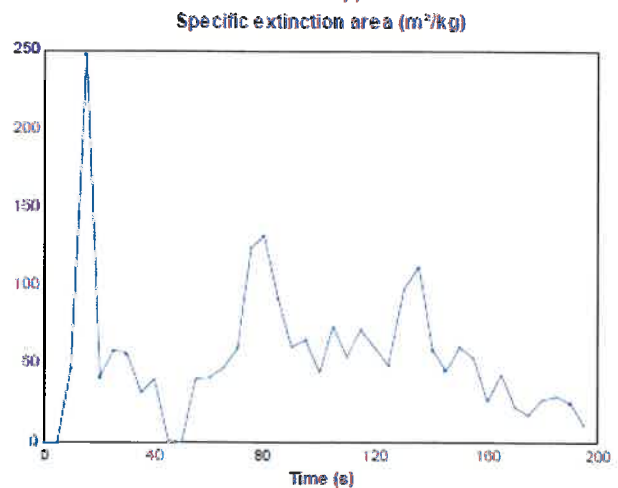
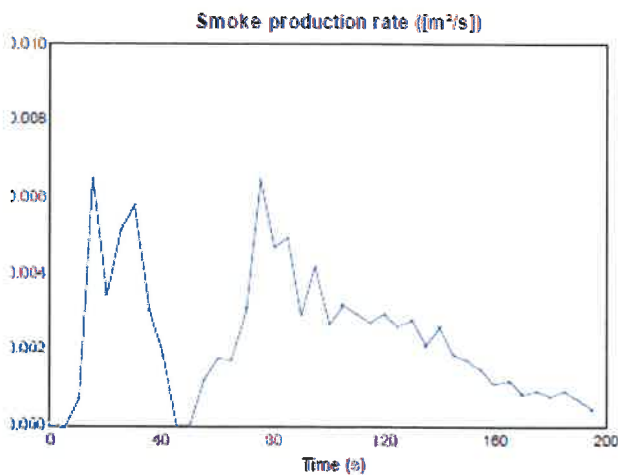
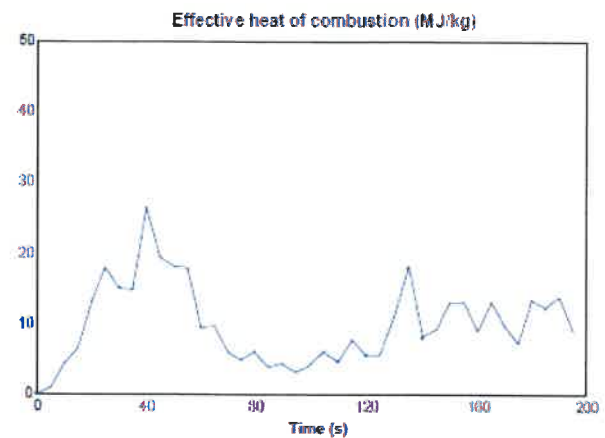
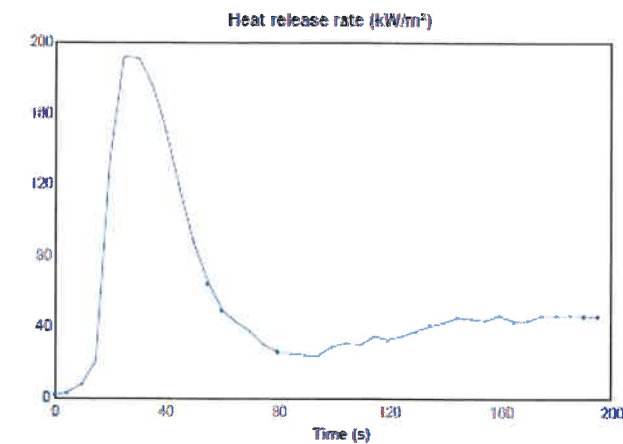
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Specimen : 1



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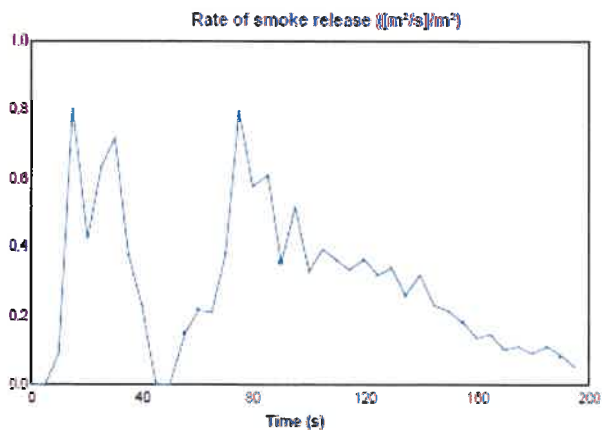
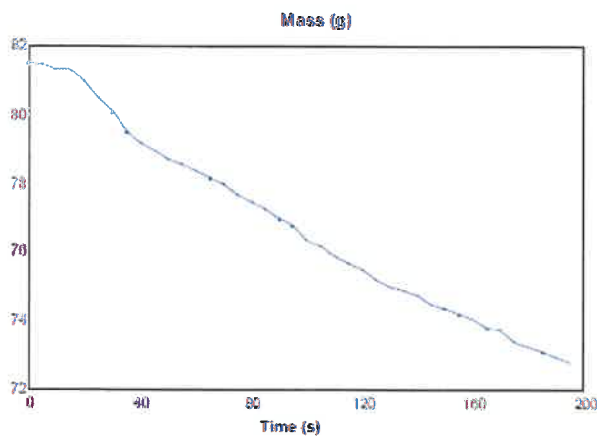
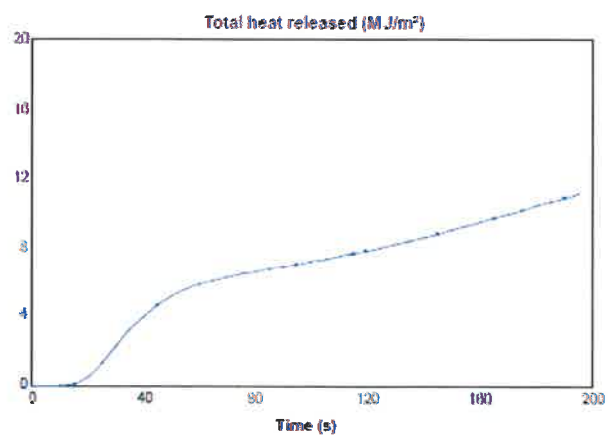
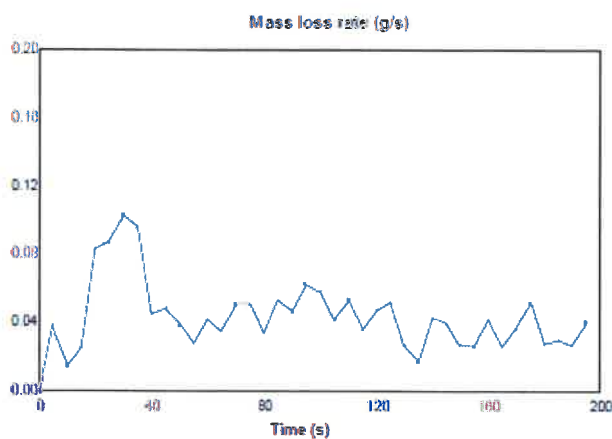
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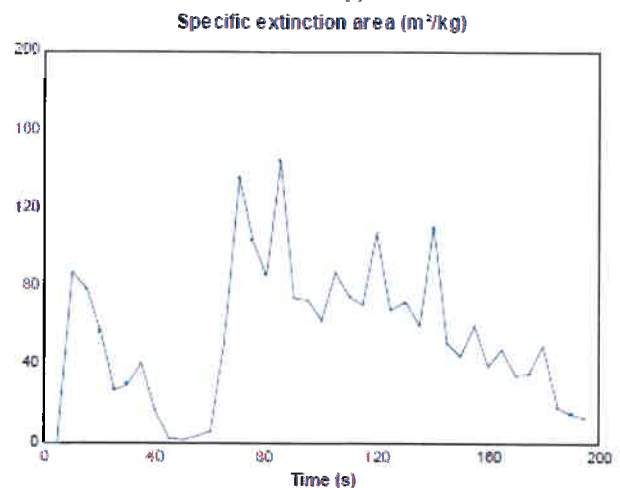
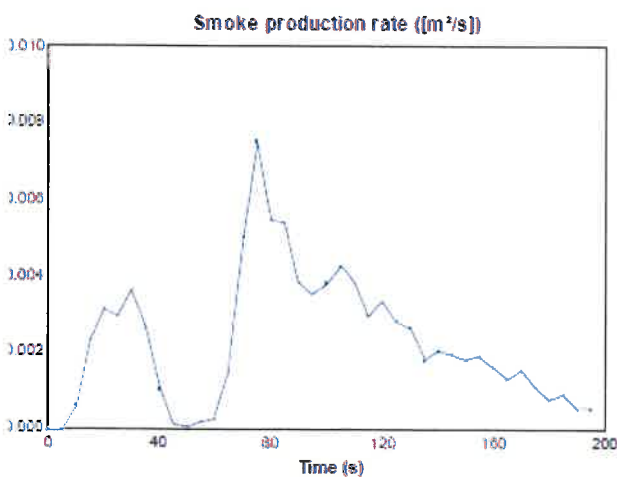
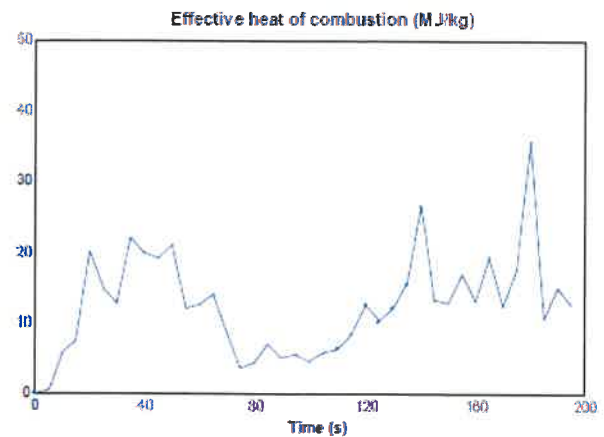
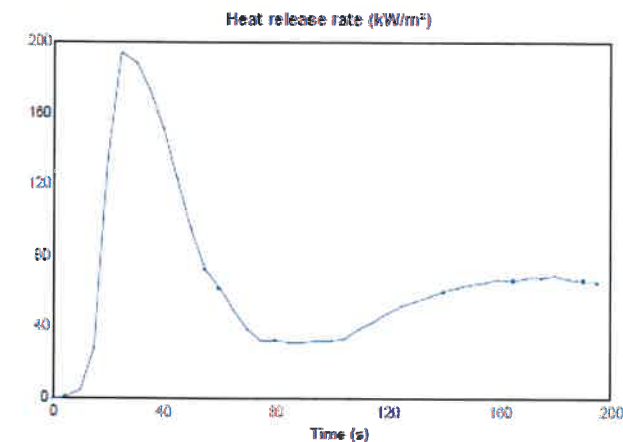
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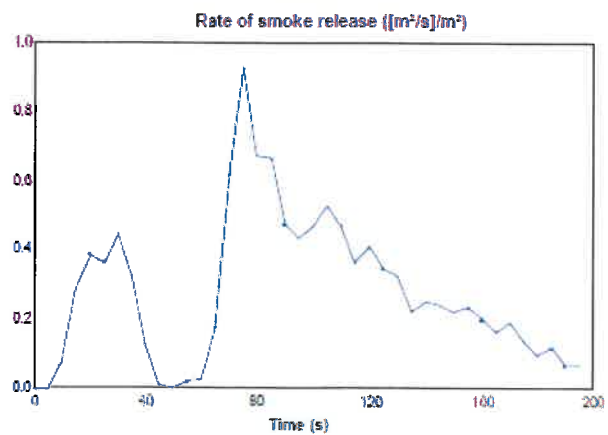
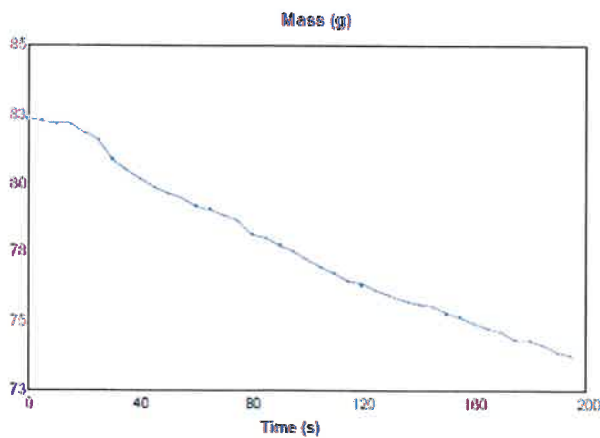
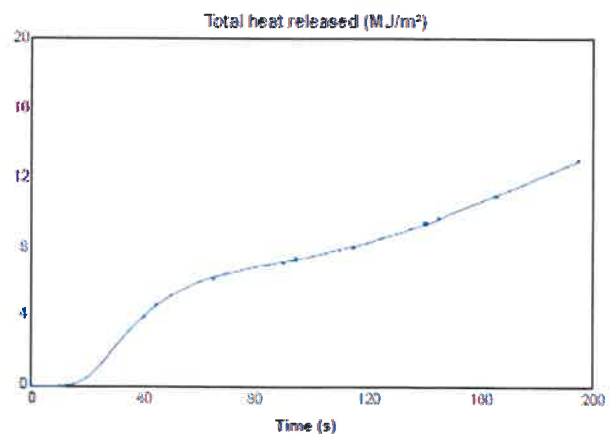
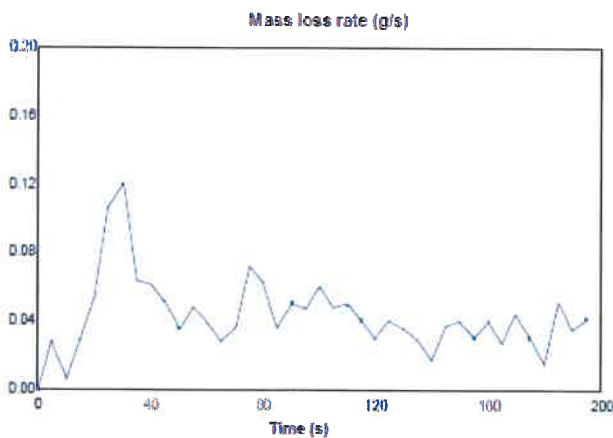
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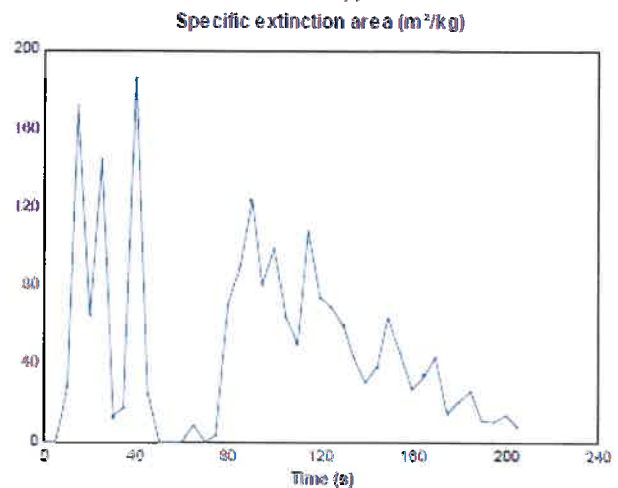
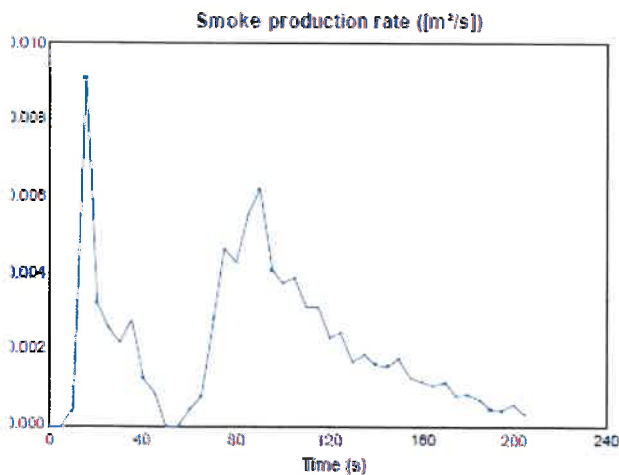
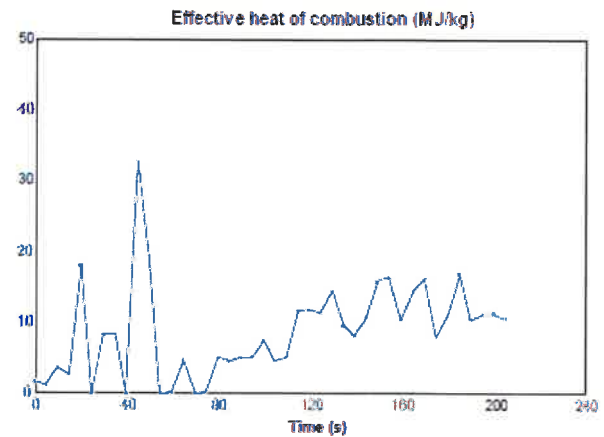
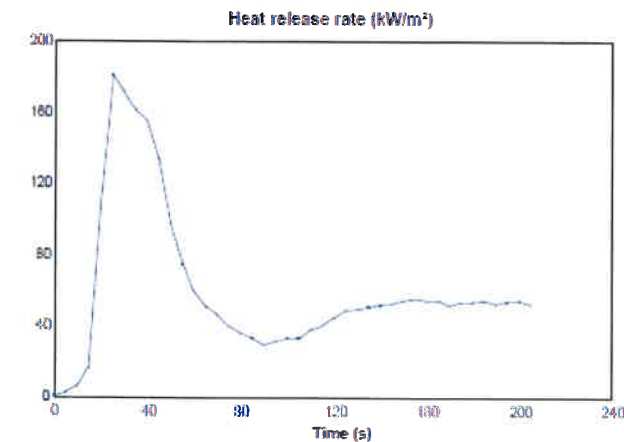
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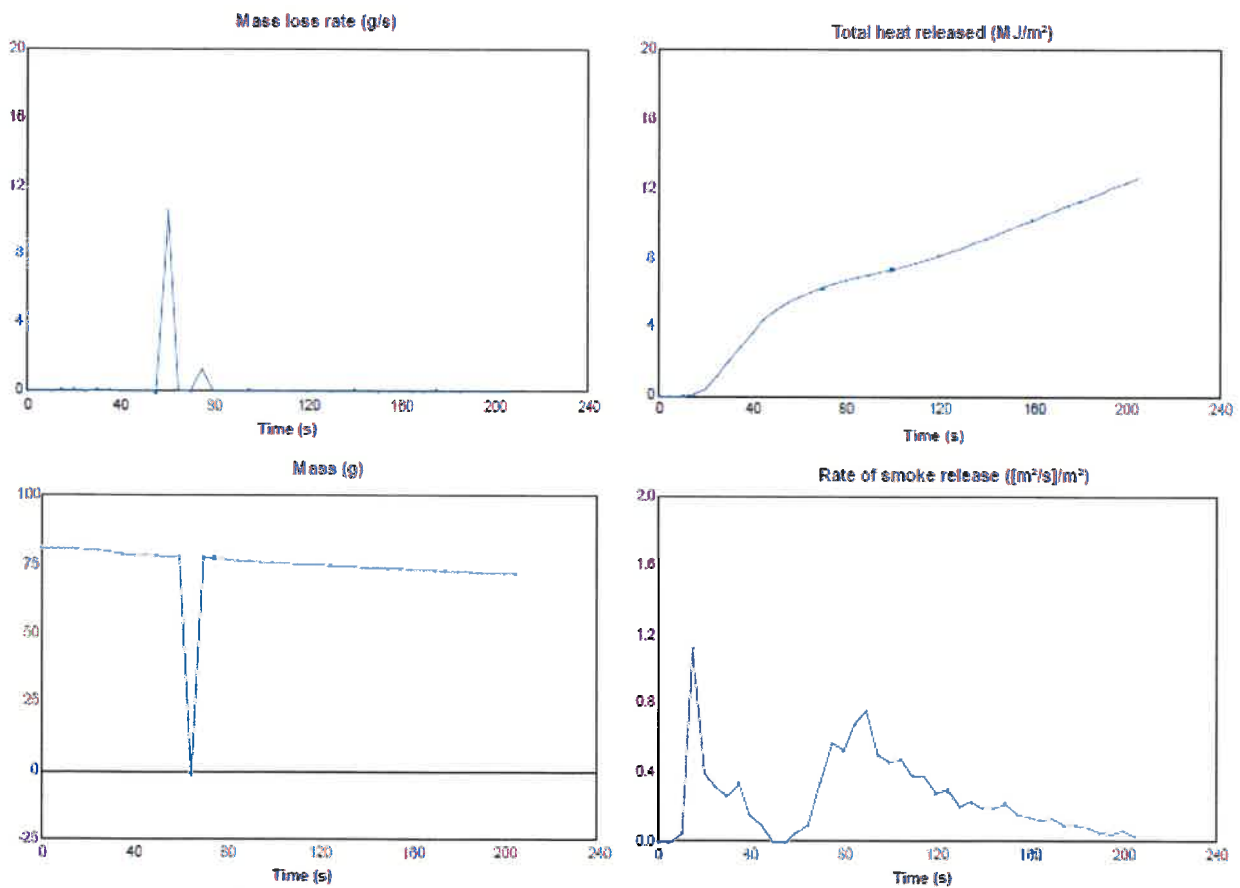
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