

# AWTA PRODUCT TESTING

Australian Wool Testing Authority Ltd - trading as AWTA Product Testing  
A.B.N 43 006 014 106  
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031  
P.O Box 240, North Melbourne, Victoria 3051  
Phone (03) 9371 2400

## Group Number Assessment

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with ISO 5660.1-2015 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

**Test Sponsor :** Materialised Pty Ltd  
19 Heath Road  
Blakehurst NSW 2221

**Test Number :** 26-001937  
**Issue Date :** 9/06/2026  
**Print Date :** 9/06/2026

**Sponsor Product :** Clients Ref : "Blue Collection -20oz Wall Vinyl - Non Woven Backing"  
Wall Covering Sample  
Colour : Grey  
End Use : Wall Covering  
Nominal Composition : Vinyl, non-woven backing  
Nominal Mass per Unit Area/Density : 20oz/yd2



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|                       |  |                      |           |
|-----------------------|--|----------------------|-----------|
| <b>Test Sponsor :</b> | Materialised Pty Ltd<br>19 Heath Road<br>Blakehurst NSW 2221 | <b>Test Number :</b> | 26-001937 |
|                       |  | <b>Issue Date :</b>  | 9/06/2026 |
|                       |  | <b>Print Date :</b>  | 9/06/2026 |

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|                                       |                         |
|---------------------------------------|-------------------------|
| Product Group Number Classification : | 2S                      |
| Average Specific Extinction Area :    | 76.8 m <sup>2</sup> /kg |



Chris Campbell  
Client Relations Manager

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## TEST REPORT

**Client :** Materialised Pty Ltd  
19 Heath Road  
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**Test Number :** 26-001937  
**Issue Date :** 05/06/2026  
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**Sample Description** Clients Ref : "Blue Collection -20oz Wall Vinyl - Non Woven Backing"  
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Chris Campbell  
APPROVED SIGNATORY



  
MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

0204/11/06

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### 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)

**Date Tested** 05-06-2026  
**Operator** AWTA Test Operator 21  
**Face Tested** Face

|                                  | Specimen |      |      |                         |
|----------------------------------|----------|------|------|-------------------------|
|                                  | 1        | 2    | 3    | Mean                    |
| Average Heat Release Rate        | 11.4     | 10.3 | 10.4 | 10.7 kW/m <sup>2</sup>  |
| Average Specific extinction area | 69.8     | 77.7 | 83.0 | 76.8 m <sup>2</sup> /kg |

**Test orientation :** Horizontal

|                                      | Specimen |        |        |                         |
|--------------------------------------|----------|--------|--------|-------------------------|
|                                      | 1        | 2      | 3      | Mean                    |
| 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            | 13       | 12     | 14     | 13 sec                  |
| Test duration                        | 1813     | 1812   | 1814   | 1813 sec                |
| Peak heat release after ignition     | 110.2    | 103.2  | 114.4  | 109.3 kW/m <sup>2</sup> |
| Average heat at 180 s                | 51.4     | 50.4   | 49.8   | 50.6 kW/m <sup>2</sup>  |
| Average heat at 300 s                | 36.6     | 36.3   | 35.9   | 36.3 kW/m <sup>2</sup>  |
| Total heat released                  | 20.5     | 18.5   | 18.8   | 19.3 MJ/m <sup>2</sup>  |
| Average effective heat of combustion | 8.6      | 7.4    | 7.8    | 7.9 MJ/kg               |
| Initial thickness                    | 11       | 11     | 11     | 11.0 mm                 |
| Initial mass                         | 69.2     | 69.5   | 69.2   | 69.3 g                  |
| Mass at sustained flaming            | 69.2     | 69.5   | 69.2   | 69.3 g                  |
| Mass remaining                       | 49.7     | 49.4   | 49.6   | 49.5 g                  |
| Mass loss                            | 2408.7   | 2486.3 | 2421.4 | 2438.8 g/m <sup>2</sup> |
| Average rate of mass loss            | 1.3      | 1.4    | 1.3    | 1.3 g/m <sup>2</sup> .s |

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|   |          |          |          |       |                                |
|---|----------|----------|----------|-------|--------------------------------|
| Total smoke Production<br>(Non Flaming phase)           | 0.5      | 0.8      | 1.5      | 0.9   | m <sup>2</sup> /m <sup>2</sup> |
| Total smoke Production<br>(Flaming phase)               | 213.7    | 205.8    | 251.6    | 223.7 | m <sup>2</sup> /m <sup>2</sup> |
| Total smoke Production<br>(Non Flaming & Flaming phase) | 214.2    | 206.6    | 253.1    | 224.6 | m <sup>2</sup> /m <sup>2</sup> |
| C-Factor (Calibration Constant)                         | 0.041323 | 0.041323 | 0.041323 | -     |                                |
| Additional Observations                                 | Nil      |          |          |       |                                |
| Difficulties Encountered during Testing                 | Nil      |          |          |       |                                |

Samples were adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

Retainer grid was used to contain the test specimen within the sample holder

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

These test results relate only to the behaviour of the product under the conditions of the test, they are not intended to be the sole criterion for assessment of performance under real fire conditions.

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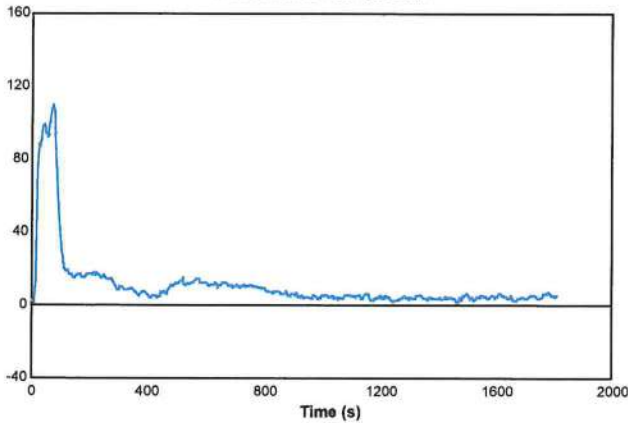
## TEST REPORT

Client : Materialised Pty Ltd  
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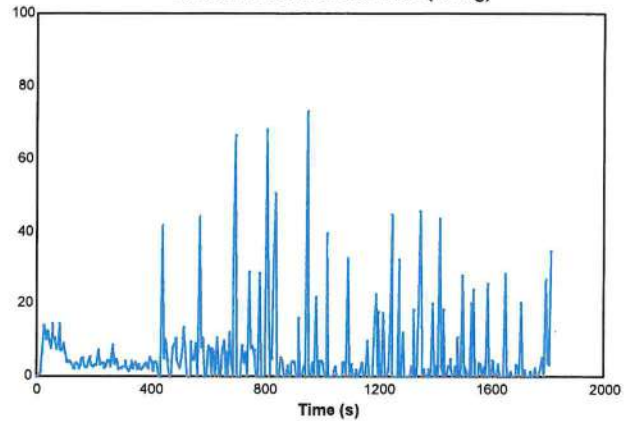
Test Number : 26-001937  
Issue Date : 05/06/2026  
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Specimen : 1

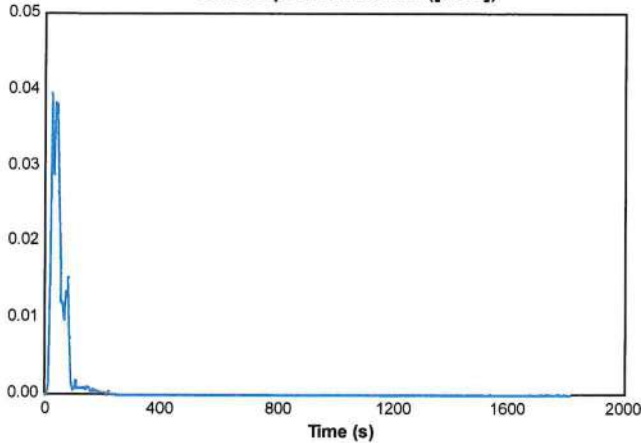
Heat release rate (kW/m<sup>2</sup>)



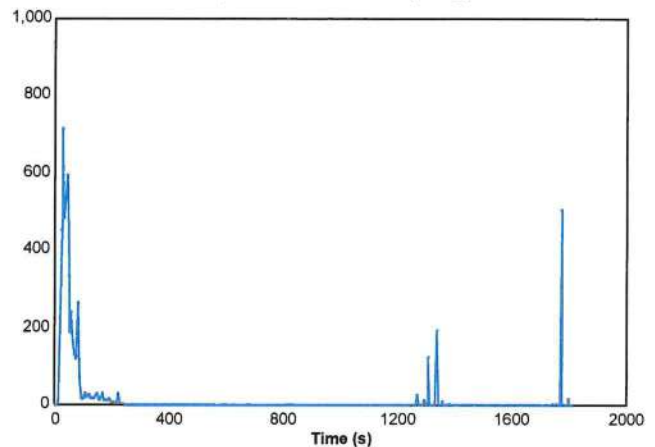
Effective heat of combustion (MJ/kg)



Smoke production rate ((m<sup>2</sup>/s))



Specific extinction area (m<sup>2</sup>/kg)



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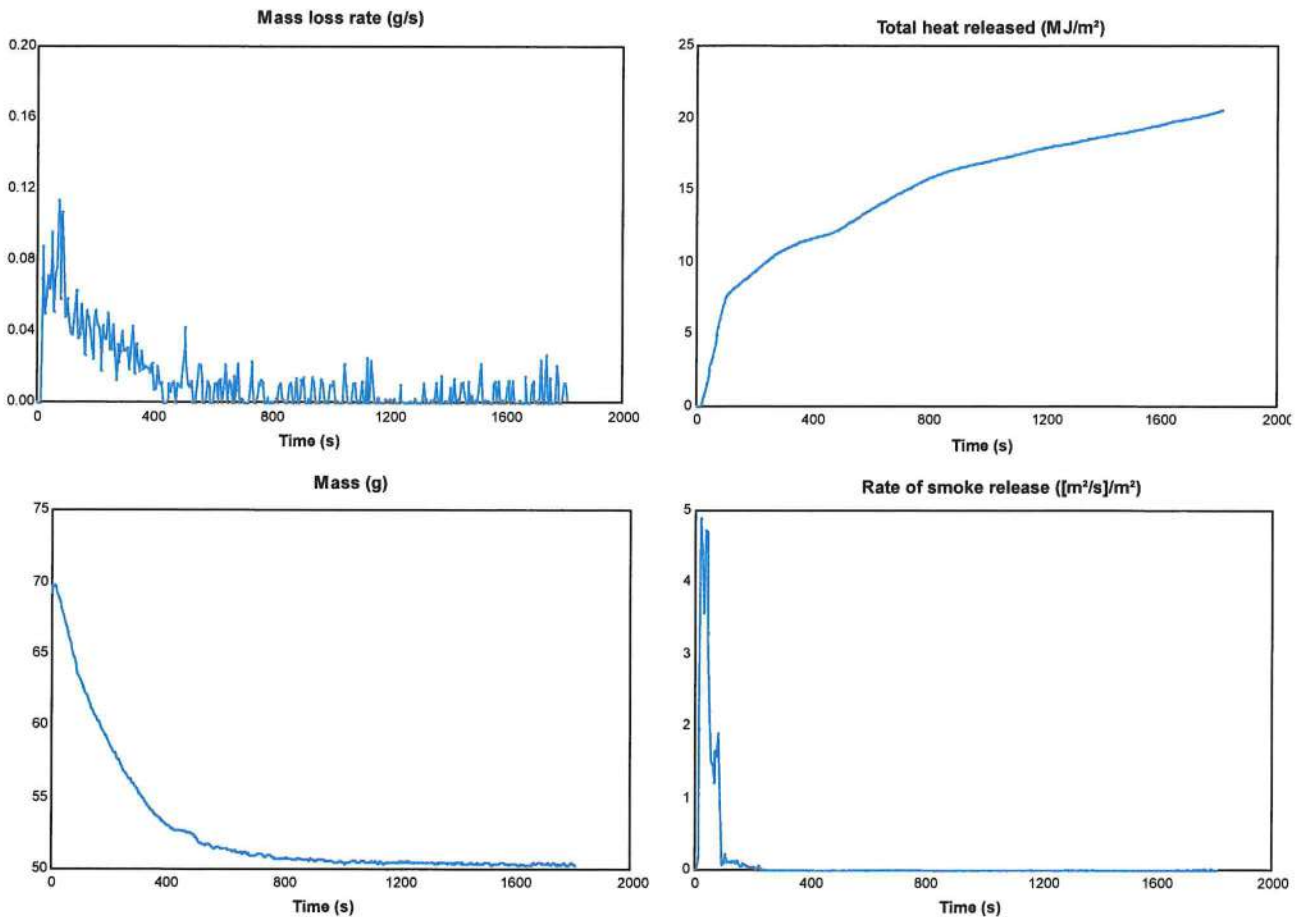
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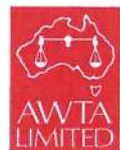


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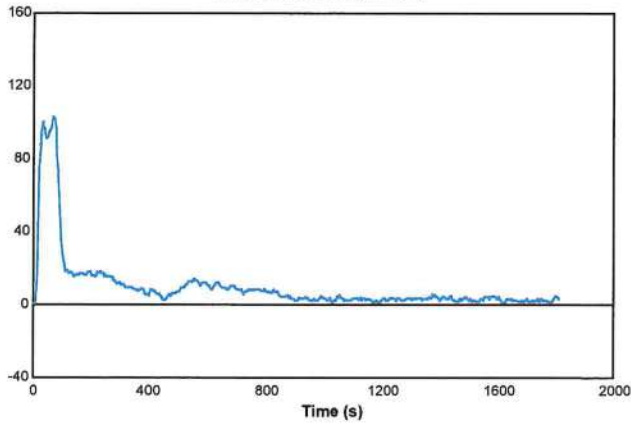
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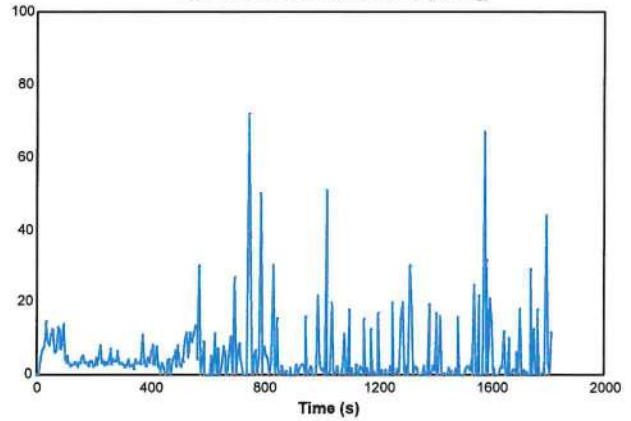
Test Number : 26-001937  
Issue Date : 05/06/2026  
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Specimen : 2

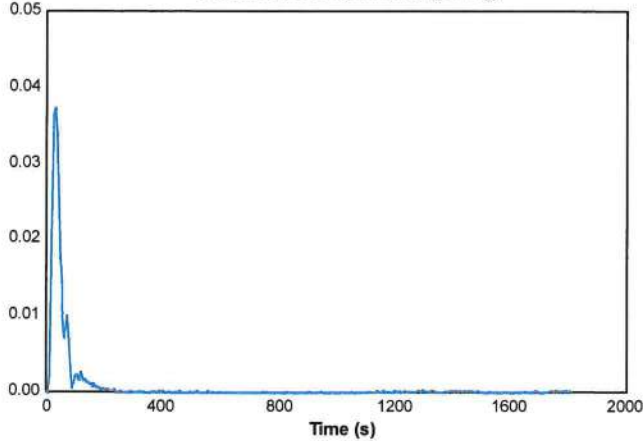
Heat release rate (kW/m<sup>2</sup>)



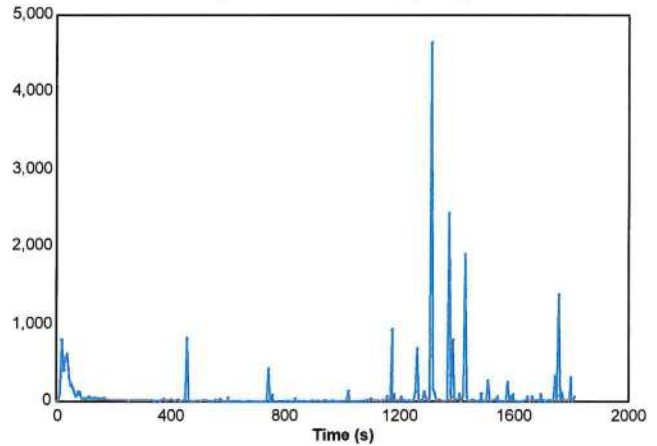
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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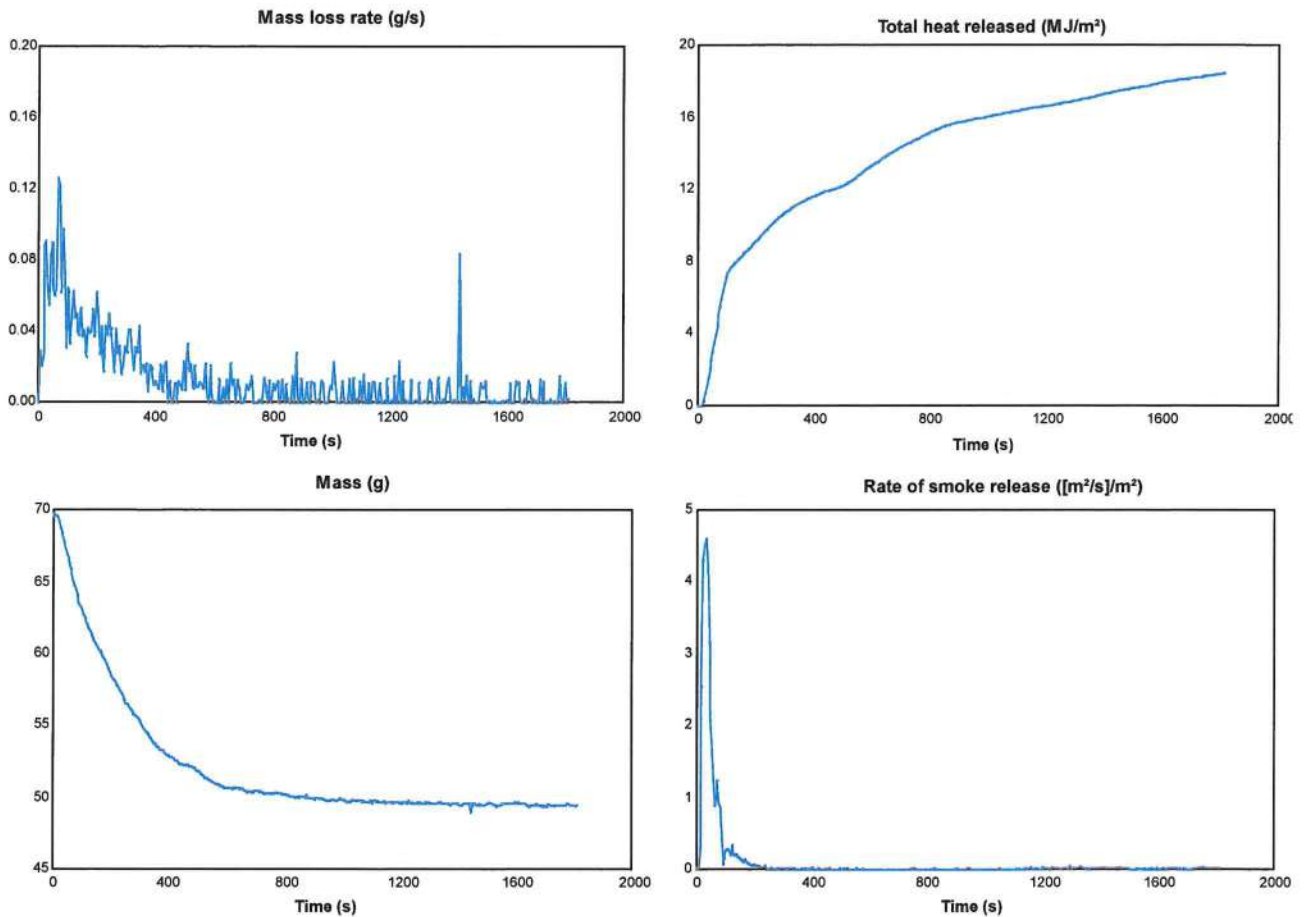
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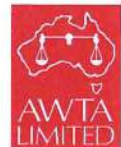
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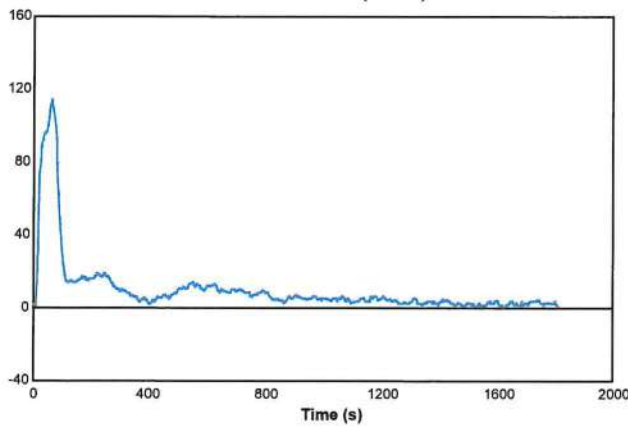
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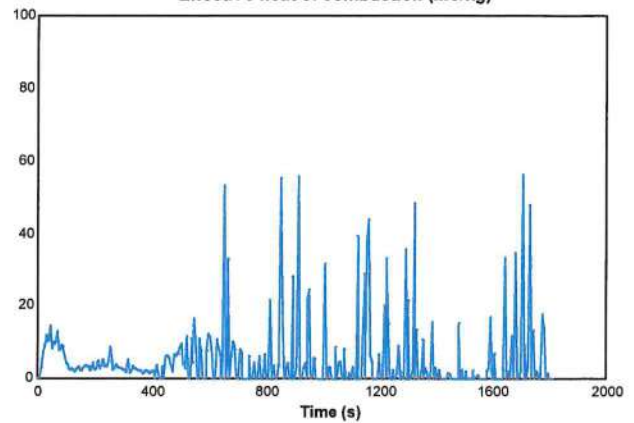
Test Number : 26-001937  
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Specimen : 3

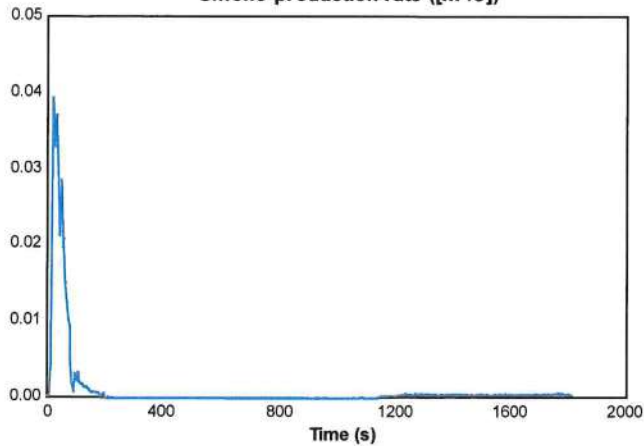
Heat release rate (kW/m<sup>2</sup>)



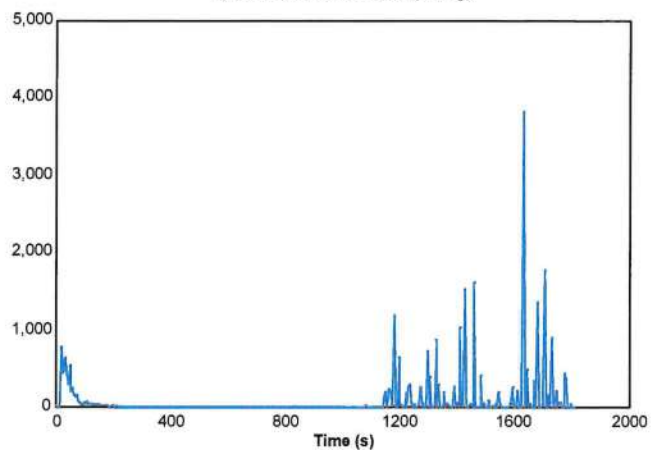
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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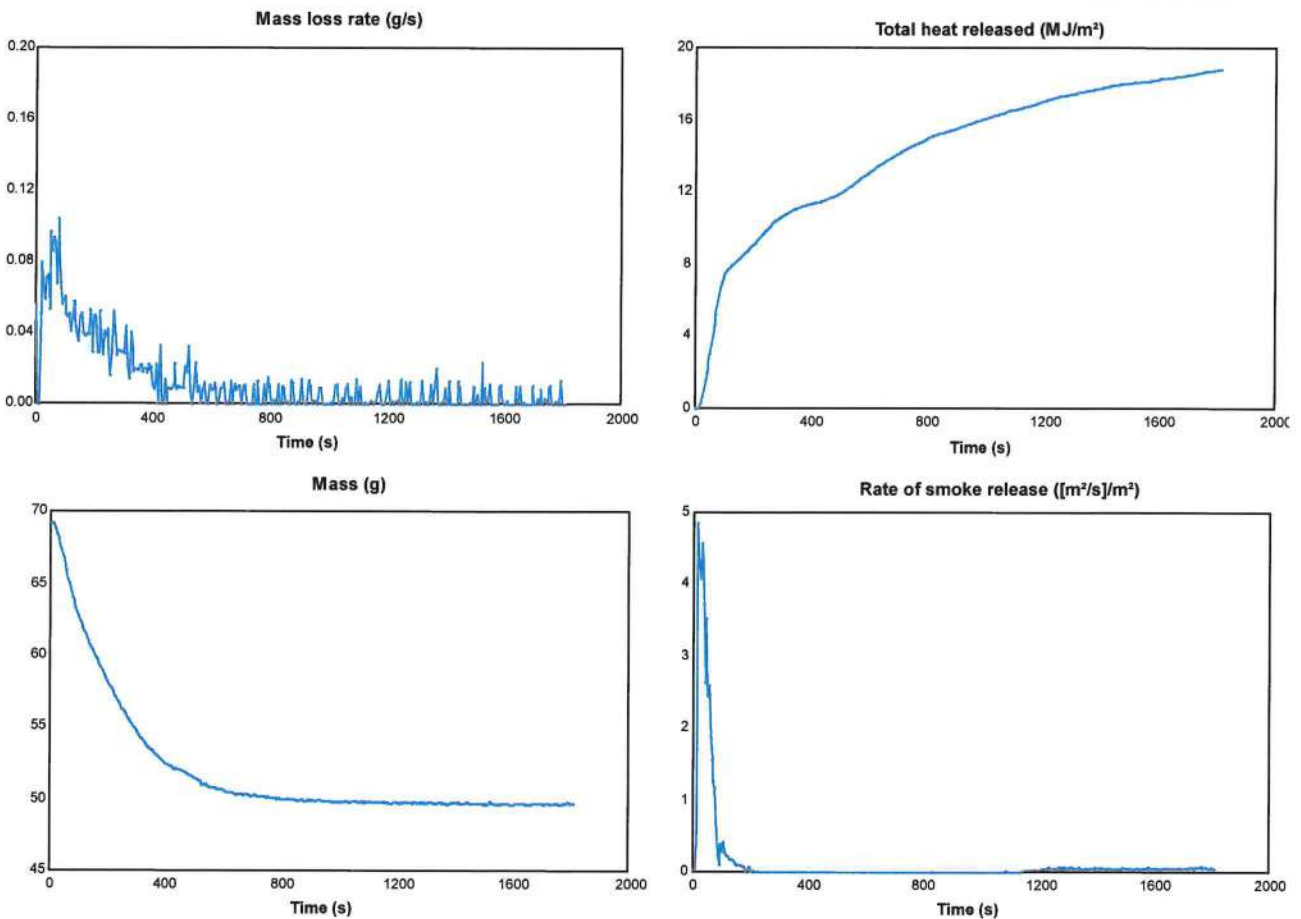
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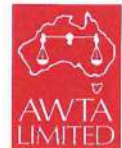
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