

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 Fax (03) 9371 2499

TEST REPORT

Client : Mokum Textiles Pty Ltd
Suite 18, Level 1
69 O'Riordan Street
Alexandria NSW 2015

Test Number : 17-000769
Issue Date : 27/02/2017
Print Date : 10/07/2019

Replacement of Initial Report dated :28/02/2017

Sample Description Clients Ref : "Peonia and Papillon Wallpaper"
Commercial Wallpaper
Colour : Cream
End Use : Wall covering
Nominal Composition : Paper based light Vinyl
Nominal Mass per Unit Area/Density : Approx: 260g/m2
Nominal Thickness : Approx: 0.5mm

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)

| | Specimen | | | Mean | |
|-----------------------------|----------|-----|-----|------|-------------------|
| | 1 | 2 | 3 | | |
| Average Heat Release Rate | 5.0 | 4.7 | 4.8 | 4.8 | kW/m ² |
| Group Number Classification | 1S | 1S | 1 | | |

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

| | 1 | 2 | 3 | Mean | |
|----------------------------------|------|------|------|------|--------------------|
| Average Specific extinction area | 56.3 | 39.6 | 58.6 | 51.5 | m ² /kg |

Test orientation : Horizontal

| | Specimen | | | Mean | |
|----------------------------------|----------|------|------|------|-------------------|
| | 1 | 2 | 3 | | |
| Irradiance | 50 | 50 | 50 | 50 | kW/m ² |
| Exhaust flow rate | 24 | 24 | 24 | 24 | L/sec |
| Time to sustained flaming | 16 | 10 | 17 | 14 | sec |
| Test duration | 1816 | 1810 | 1817 | 1814 | sec |
| Peak heat release after ignition | 55.3 | 55.2 | 47.9 | 52.8 | kW/m ² |

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APPROVED SIGNATORY

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| | | | | | |
|--------------------------------------|------|------|------|------|---------------------|
| Average heat at 180 s | 10.0 | 11.1 | 9.5 | 10.2 | kW/m ² |
| Average heat at 300 s | 9.4 | 10.2 | 9.8 | 9.8 | kW/m ² |
| Total heat released | 9.0 | 8.5 | 8.7 | 8.7 | MJ/m ² |
| Average effective heat of combustion | 4.5 | 4.3 | 4.5 | 4.4 | MJ/kg |
| Initial thickness | 6.5 | 6.5 | 6.5 | 6.5 | mm |
| Initial mass | 84.6 | 85.3 | 86 | 85.3 | g |
| Mass remaining | 68.2 | 69.0 | 69.9 | 69.0 | g |
| Mass loss | 16.4 | 16.3 | 16.1 | 16.3 | g |
| Average rate of mass loss | 1.1 | 1.1 | 1.1 | 1.1 | g/m ² .s |

Total smoke Production
(Non Flaming phase)

Total smoke Production
(Flaming phase)

Total smoke Production
(Non Flaming & Flaming phase)

Specimen Surface area

C-Factor (Calibration Constant)

Additional Observations

Difficulties Encountered during 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 the sole criterion for assessment of performance under real fire conditions.

Samples were adhered to a substrate of 6mm thick cement sheet using Professional Ultra Clear Pro 880 adhesive prior to testing

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

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Note : Specimen/s within the sample have heat release rate/s of less than 50 kW/m². In accordance with New Zealand Building Code verification Method C/MM2 Appendix A this product shall be classified as Group 1.

If a different classification group is obtained for different specimens tested, then the highest (worst) classification for any specimen must be taken as the final classification for that material.

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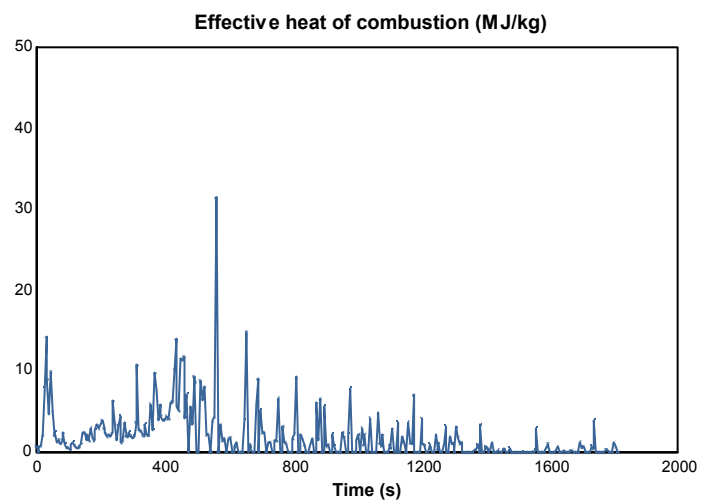
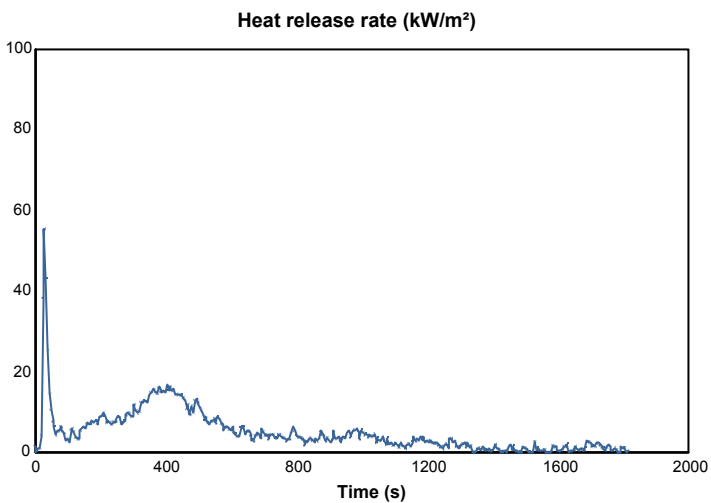
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Specimen : 1



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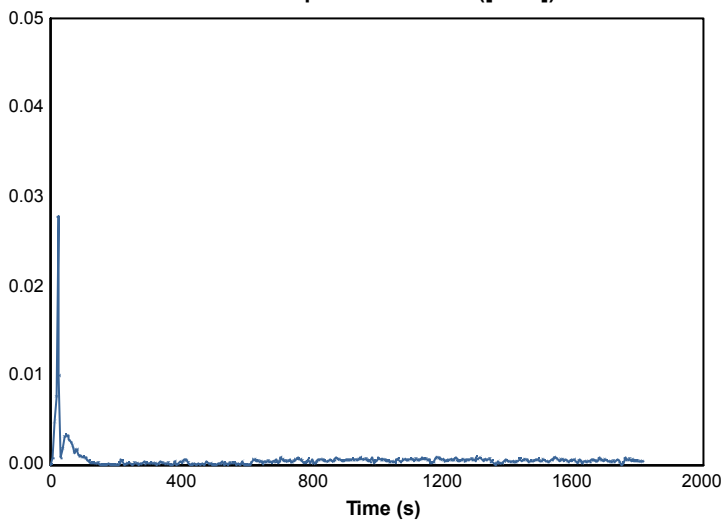
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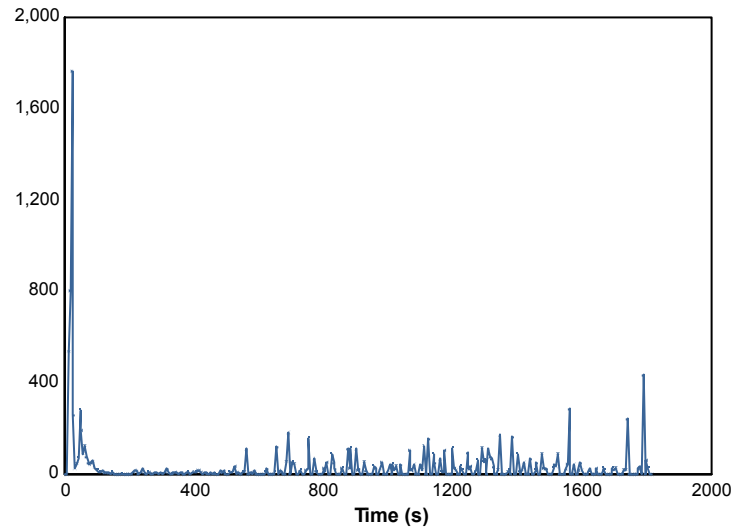
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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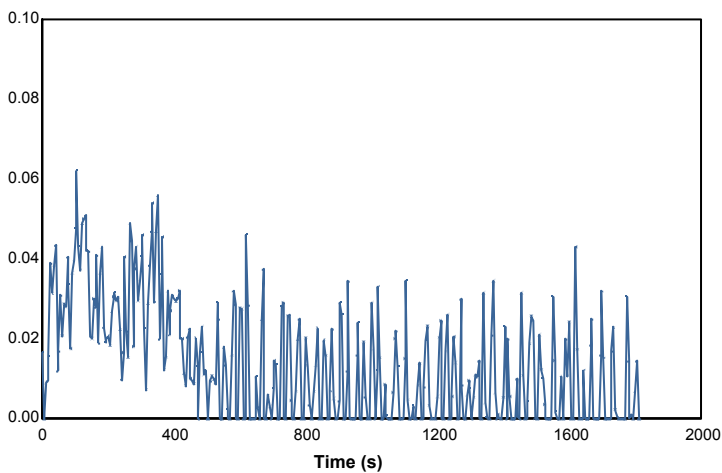
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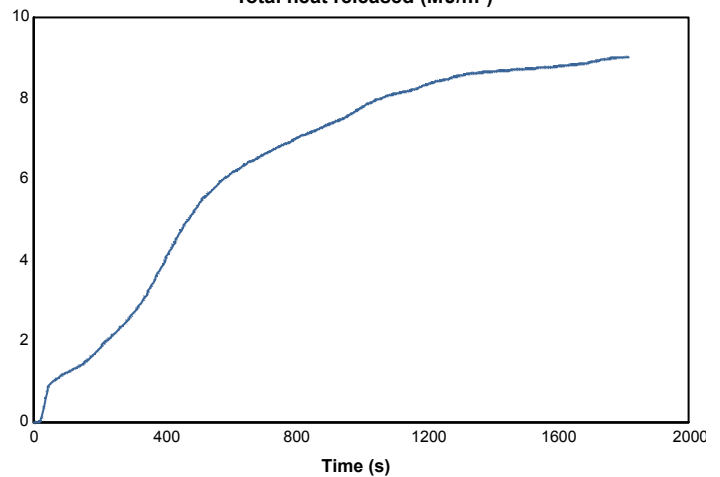
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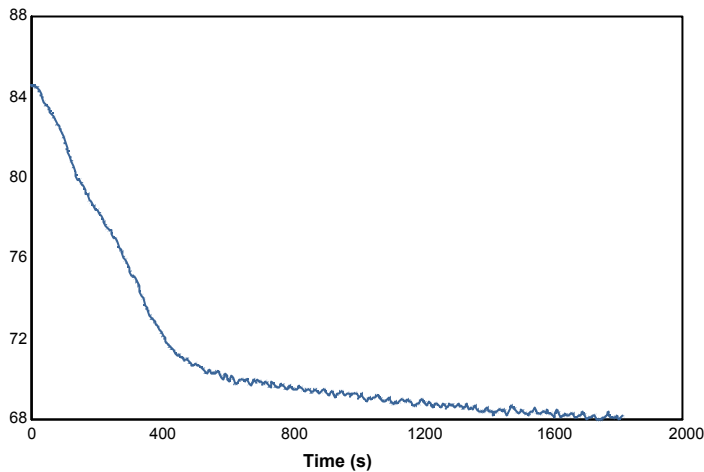
Mass loss rate (g/s)



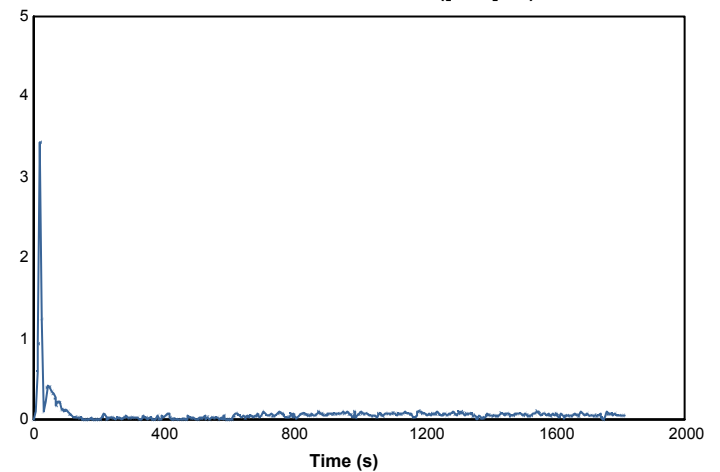
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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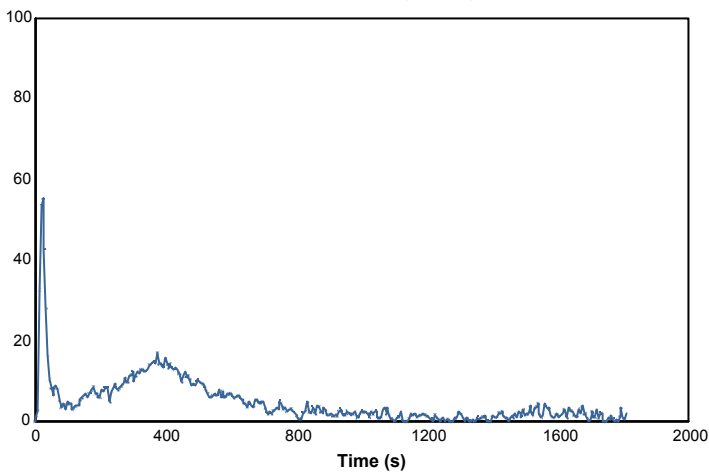
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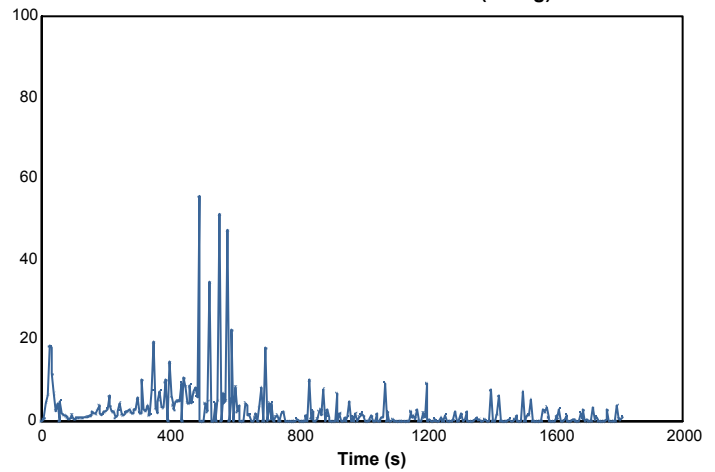
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Specimen : 2

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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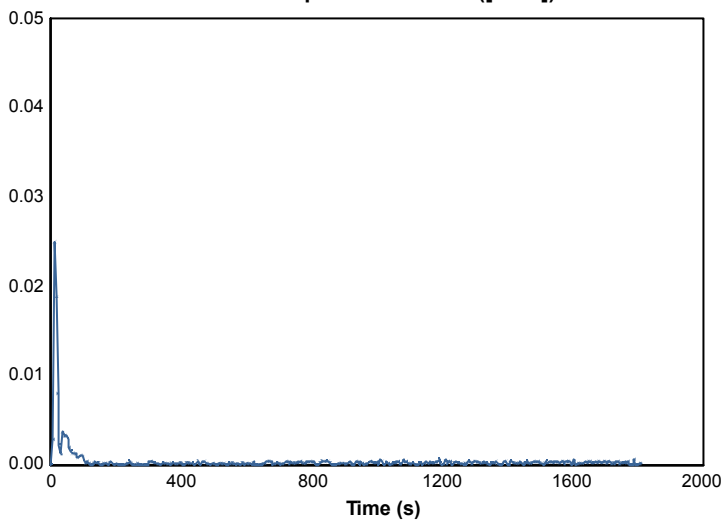
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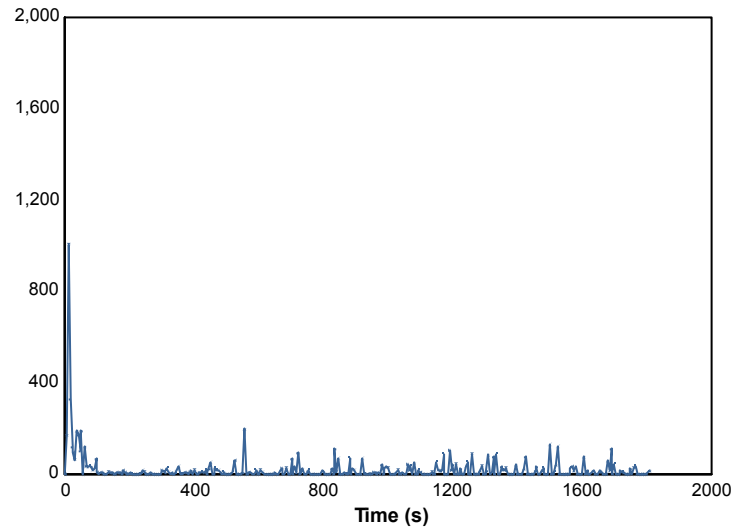
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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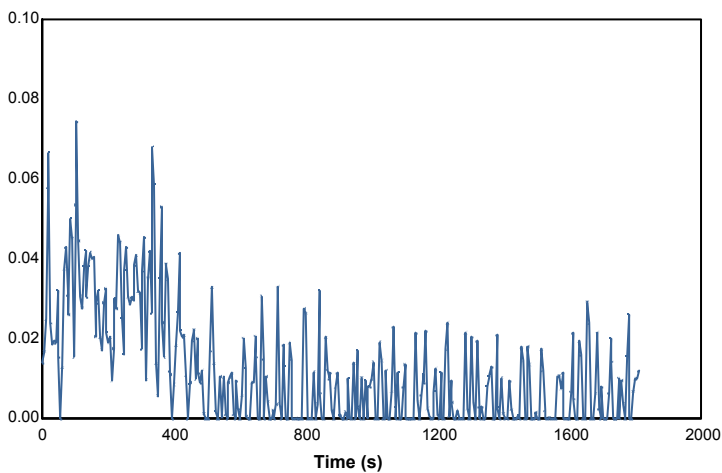
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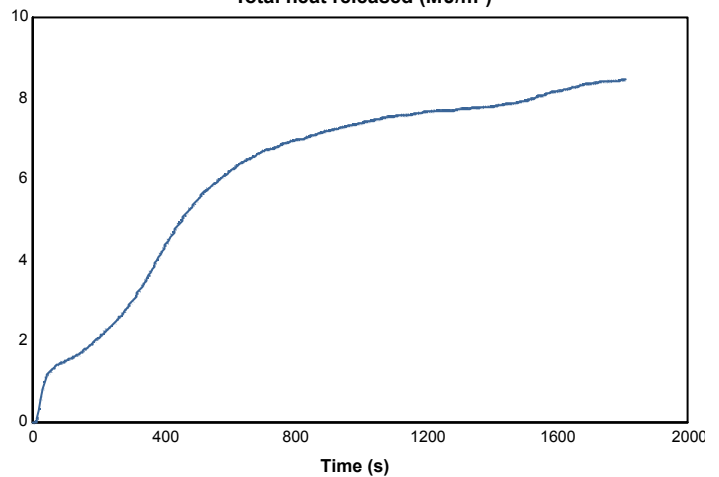
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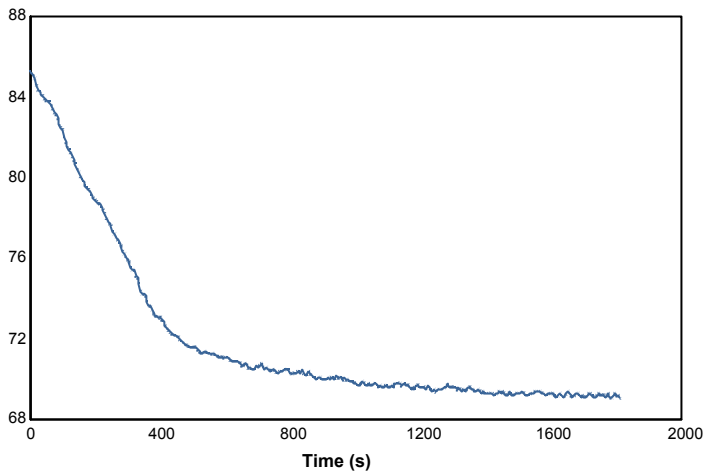
Mass loss rate (g/s)



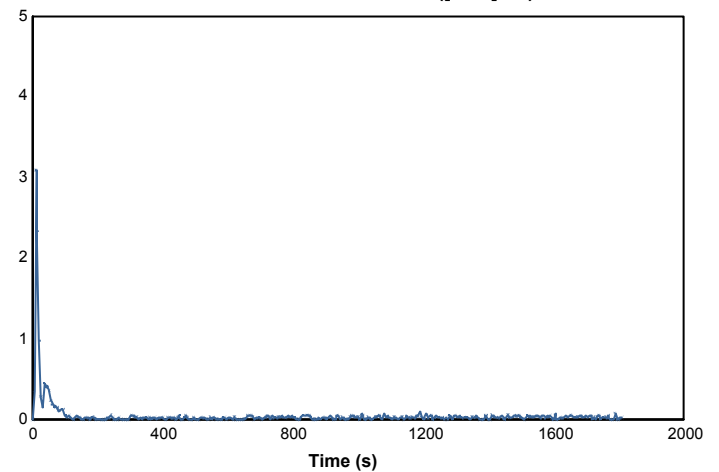
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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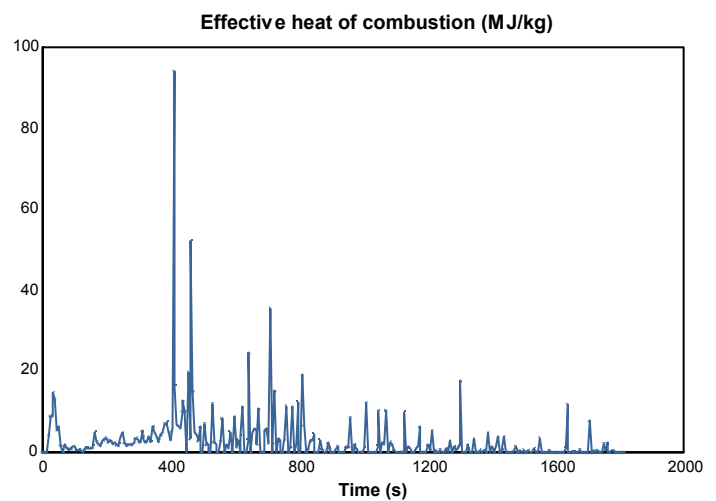
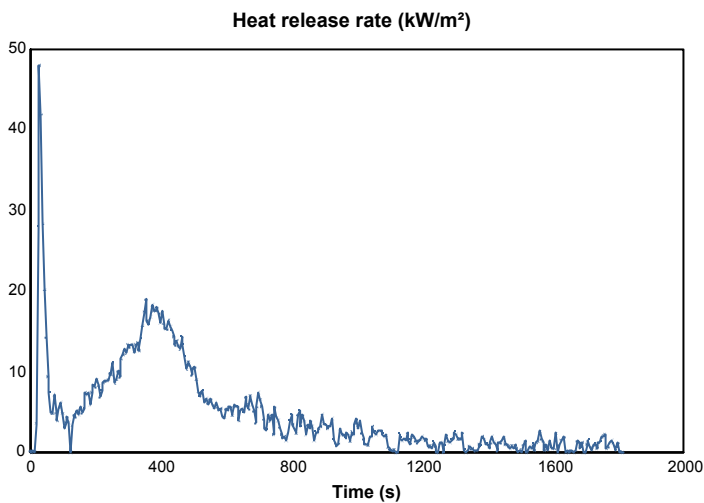
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Specimen : 3



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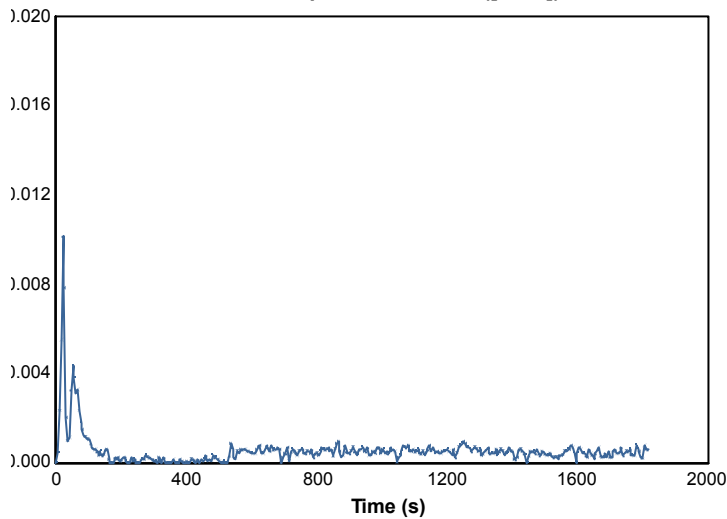
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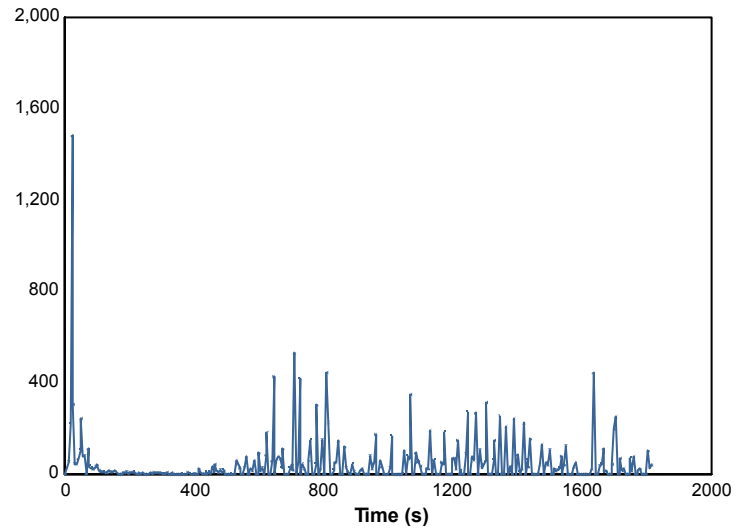
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Smoke production rate (m^2/s)



Specific extinction area (m^2/kg)



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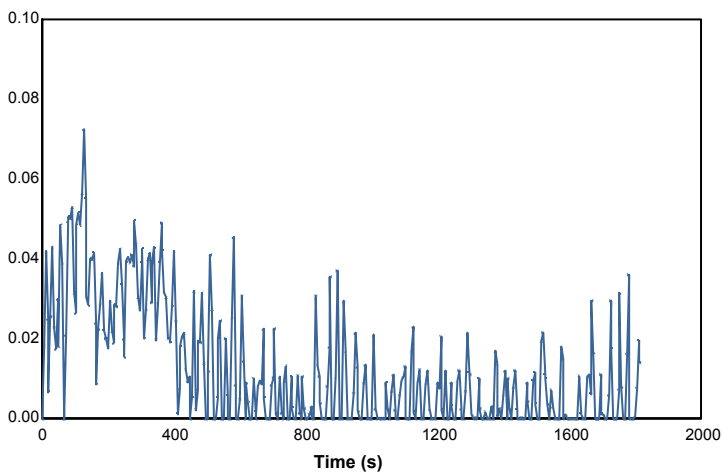
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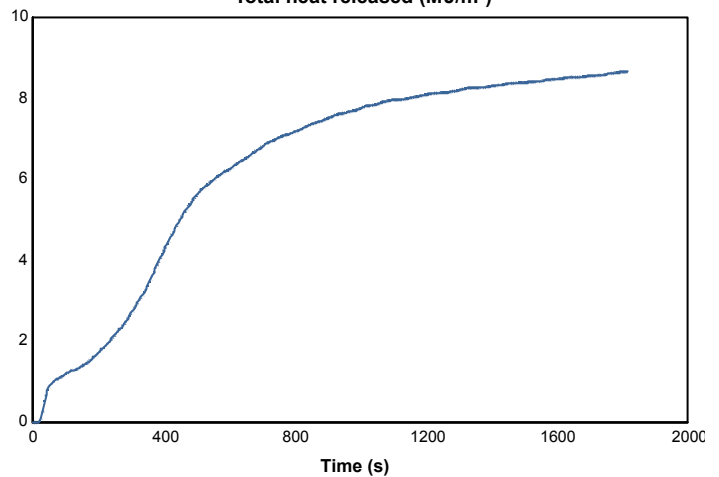
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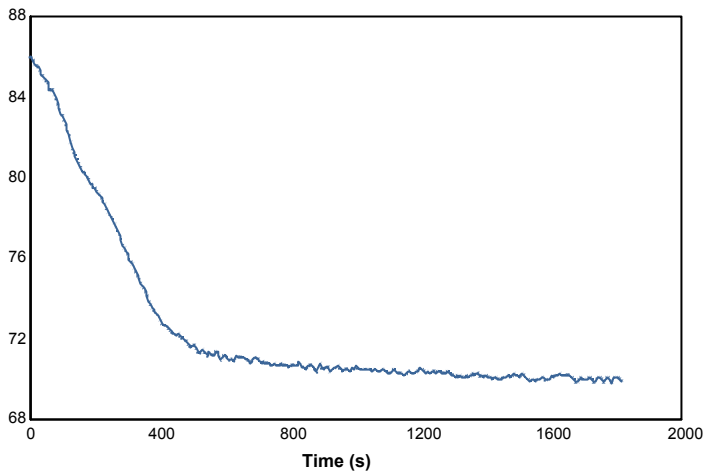
Mass loss rate (g/s)



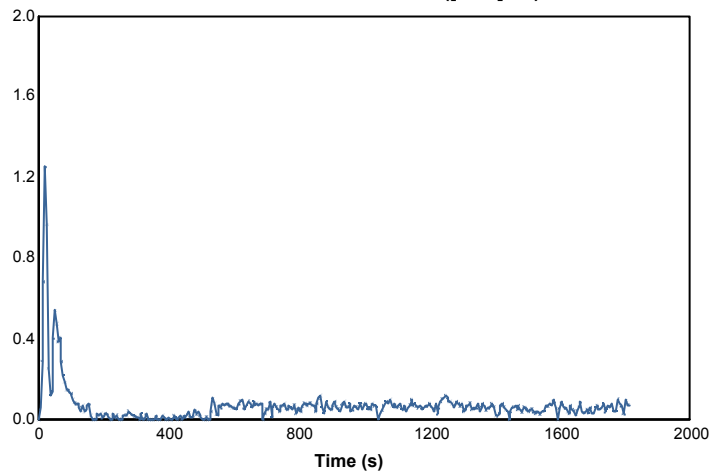
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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