

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

TEST REPORT

Client : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 22-003221
Issue Date : 25/08/2022
Print Date : 26/08/2022

Sample Description Clients Ref : 'Gitane"
Woven textured printed wallpapers
Colour : Beige with various print
Nominal Composition : Vinyl with cellulose backing
Nominal Mass per Unit Area/Density : 460g/m2
Nominal Thickness : Approx: 1mm



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Accreditation Numbers: 983, 985, and 1356

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Fiona McDonald

APPROVED SIGNATORY



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

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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 25-08-2022
Face Tested FACE

| | Specimen | | | | |
|----------------------------------|----------|------|------|------|--------------------|
| | 1 | 2 | 3 | Mean | |
| Average Heat Release Rate | 10.2 | 9.6 | 5.1 | 8.3 | kW/m ² |
| Average Specific extinction area | 63.6 | 65.4 | 75.5 | 68.1 | m ² /kg |

Test orientation : Horizontal

| | Specimen | | | | |
|--------------------------------------|----------|--------|--------|--------|---------------------|
| | 1 | 2 | 3 | Mean | |
| 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 | 11 | 13 | 13 | sec |
| Test duration | 1814 | 1811 | 1813 | 1813 | sec |
| Peak heat release after ignition | 101.1 | 130.2 | 127.7 | 119.7 | kW/m ² |
| Average heat at 180 s | 27.7 | 30.1 | 25.1 | 27.7 | kW/m ² |
| Average heat at 300 s | 22.2 | 24.1 | 18.9 | 21.7 | kW/m ² |
| Total heat released | 18.4 | 17.6 | 9.7 | 15.2 | MJ/m ² |
| Average effective heat of combustion | 8.8 | 8.3 | 4.2 | 7.1 | MJ/kg |
| Initial thickness | 7 | 7 | 7 | 7.0 | mm |
| Initial mass | 93 | 95.4 | 94.9 | 94.4 | g |
| Mass at sustained flaming | 93.0 | 95.4 | 94.8 | 94.4 | g |
| Mass remaining | 76.0 | 78.5 | 77.1 | 77.2 | g |
| Mass loss | 2104.3 | 2083.0 | 2192.8 | 2126.7 | g/m ² |
| Average rate of mass loss | 1.2 | 1.2 | 1.2 | 1.2 | g/m ² .s |

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| | | | | | |
|---|----------|----------|----------|-------|--------------------------------|
| Total smoke Production (Non Flaming phase) | 0.4 | 0.8 | 0.2 | 0.5 | m ² /m ² |
| Total smoke Production (Flaming phase) | 150.7 | 167.7 | 169.4 | 162.6 | m ² /m ² |
| Total smoke Production (Non Flaming & Flaming phase) | 151.1 | 168.5 | 169.6 | 163.1 | m ² /m ² |
| C-Factor (Calibration Constant) | 0.040067 | 0.040067 | 0.040067 | - | |
| Additional Observations | NONE | | | | |
| Difficulties Encountered during Testing | NONE | | | | |

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.

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.

Samples were adhered to a substrate of 6mm thick cement sheet using Roberts 656 wallcovering adhesive prior to testing

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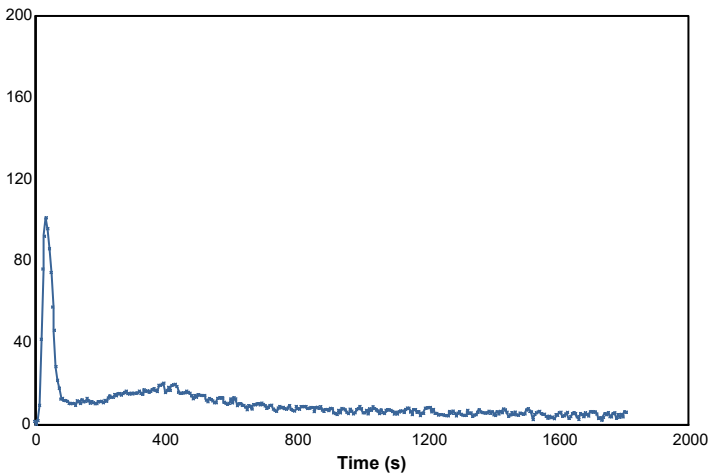
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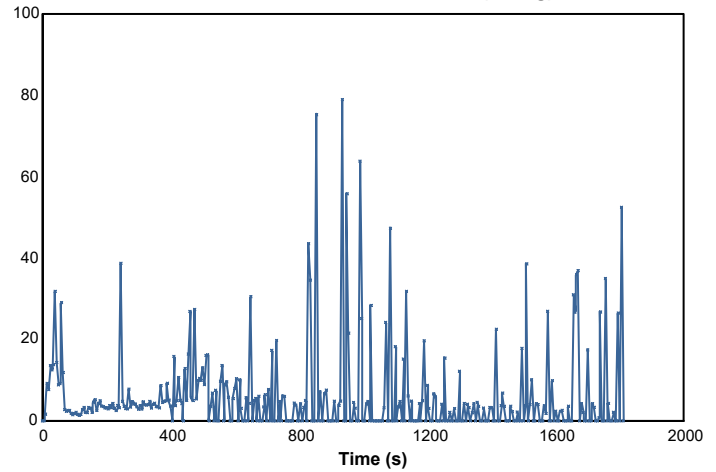
Test Number : 22-003221
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Specimen : 1

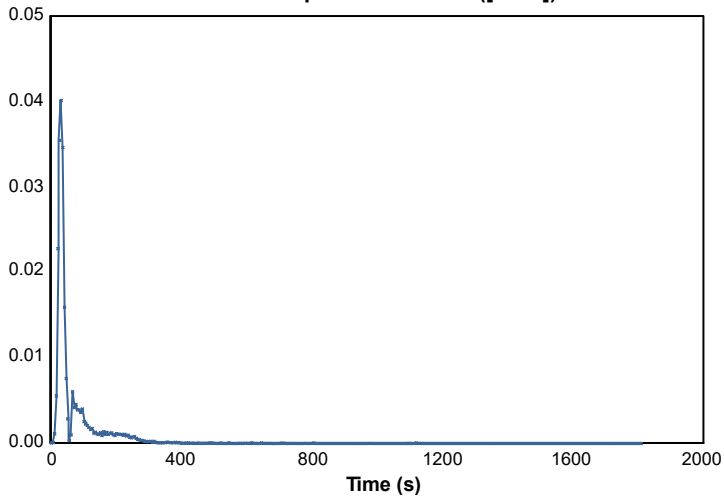
Heat release rate (kW/m²)



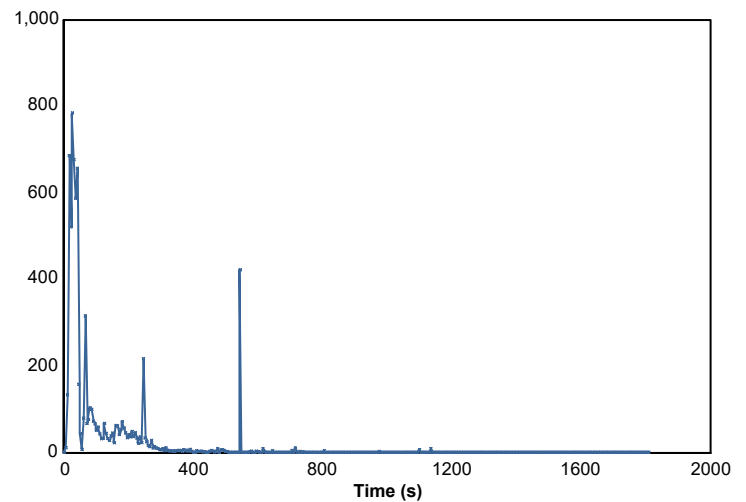
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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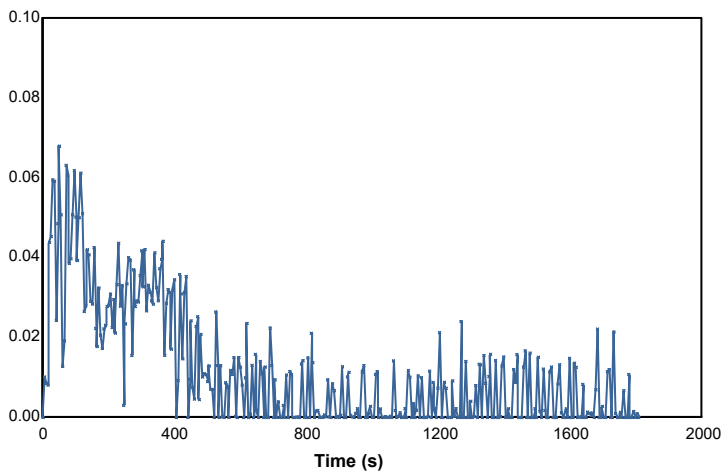
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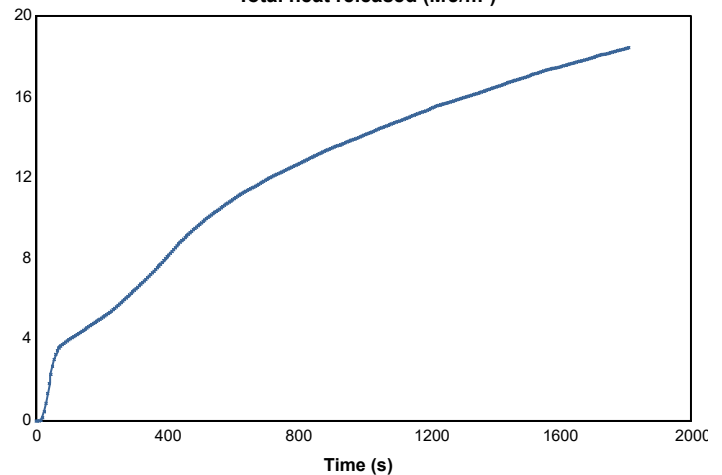
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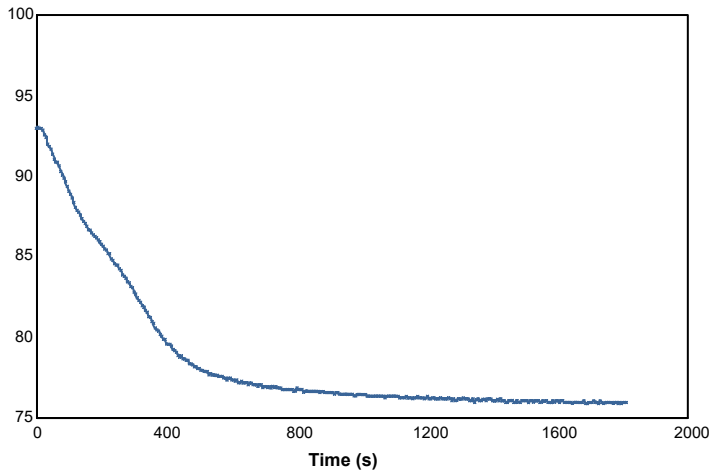
Mass loss rate (g/s)



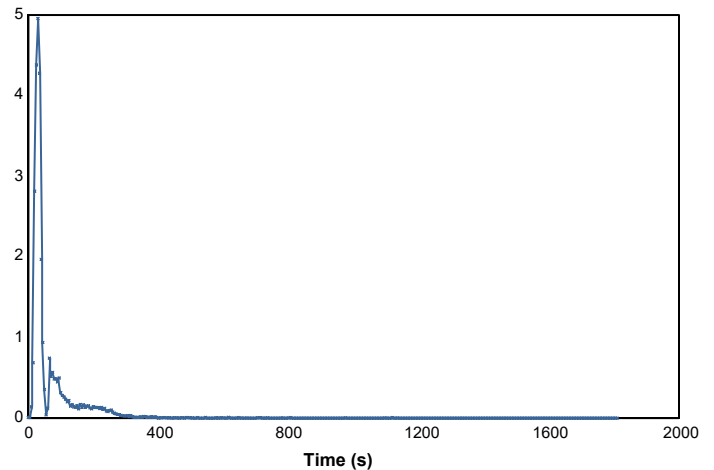
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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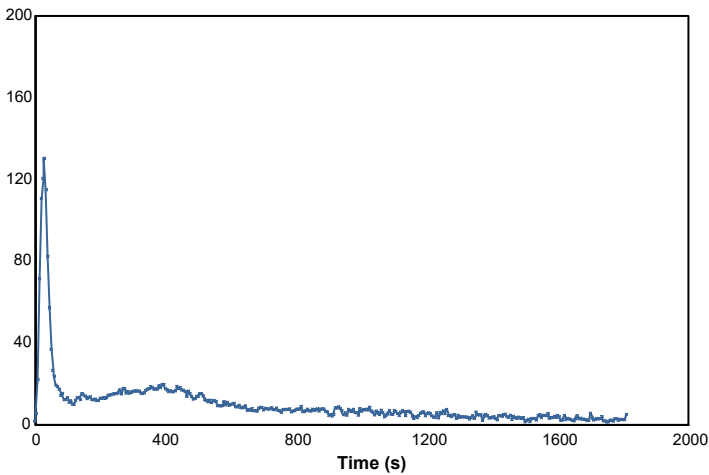
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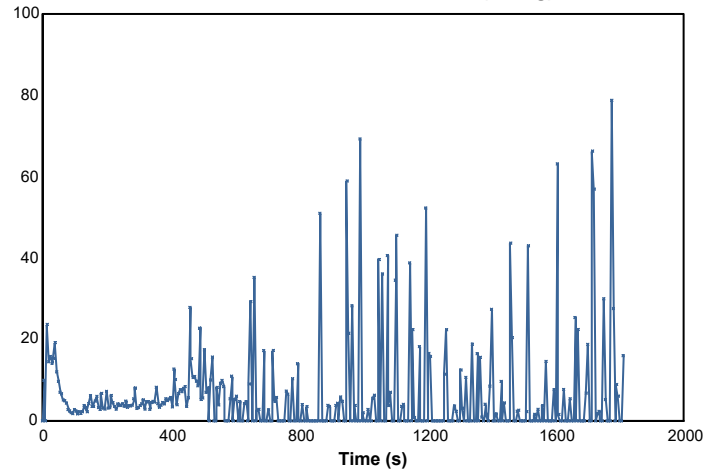
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Specimen : 2

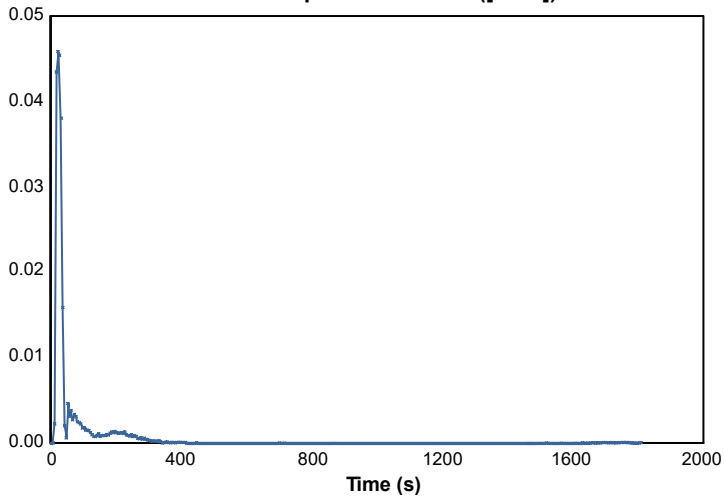
Heat release rate (kW/m²)



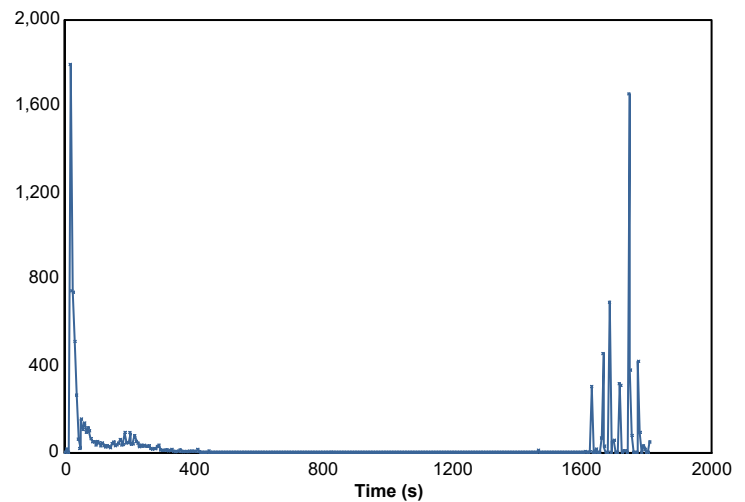
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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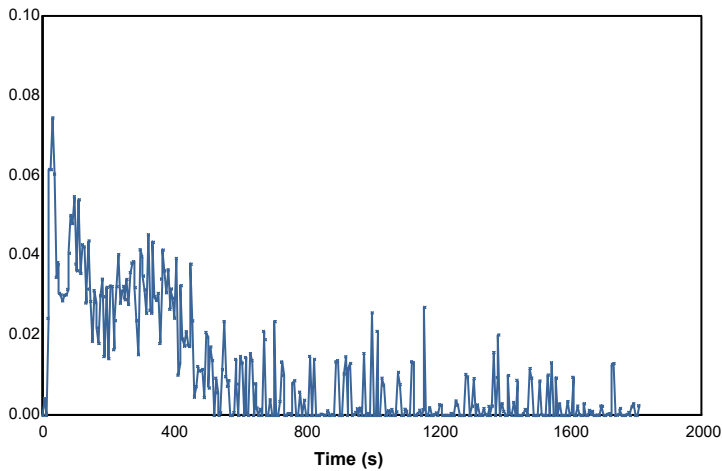
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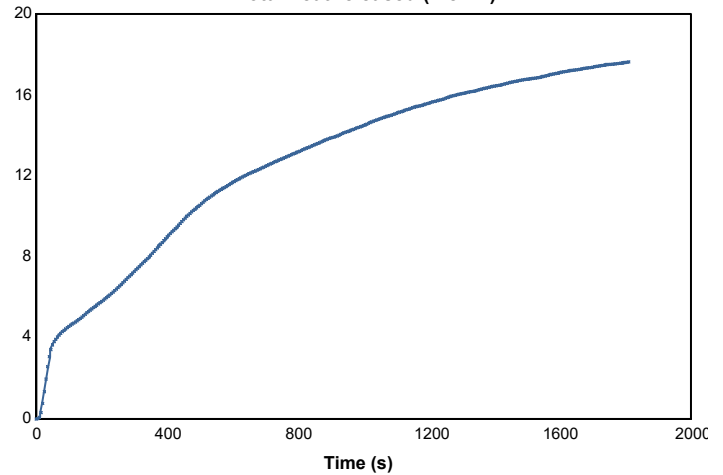
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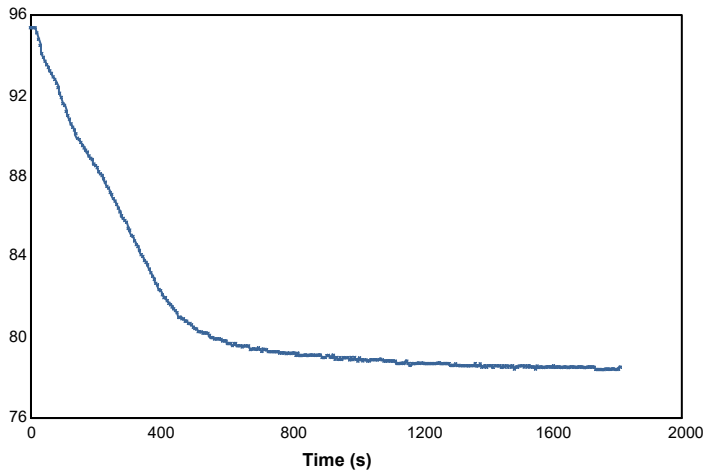
Mass loss rate (g/s)



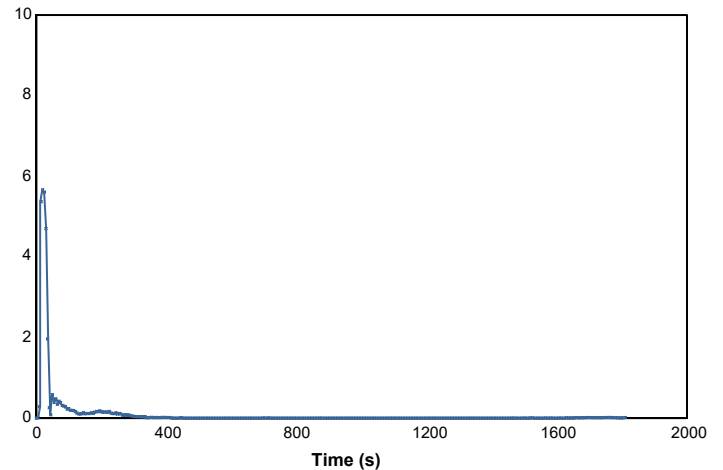
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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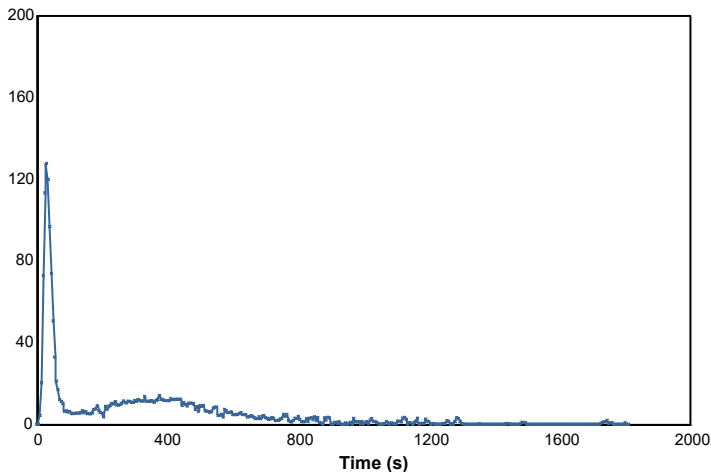
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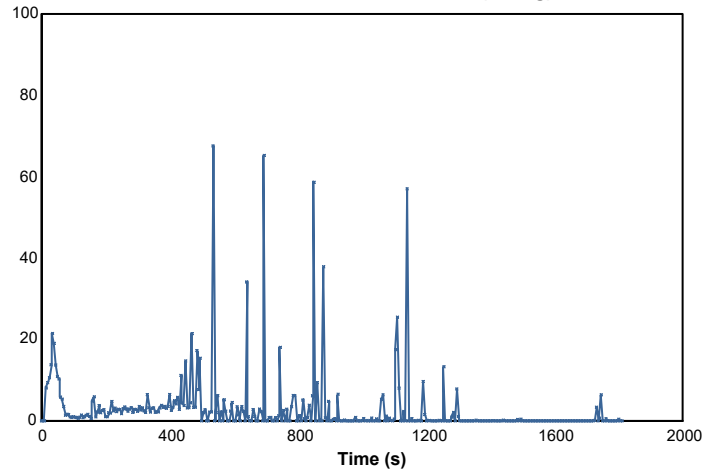
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Specimen : 3

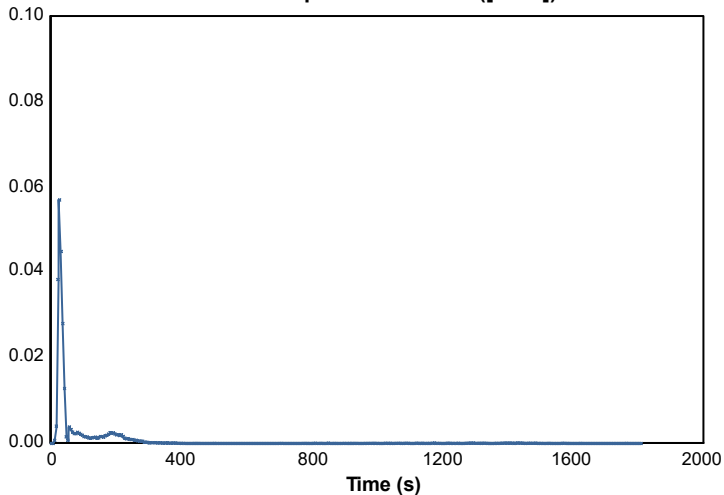
Heat release rate (kW/m²)



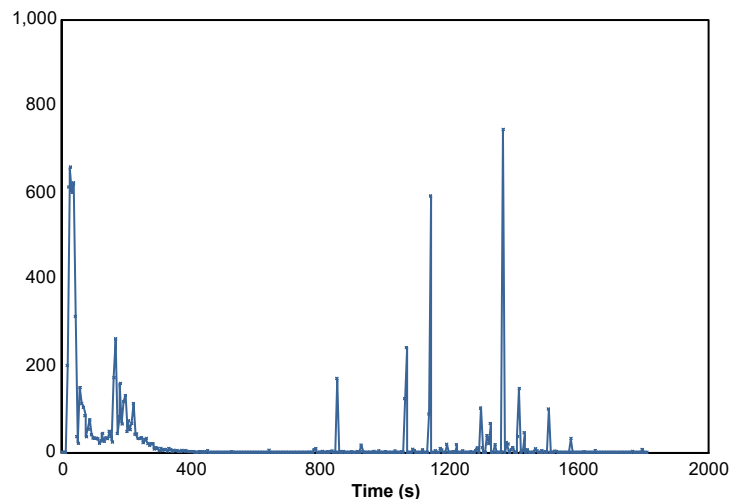
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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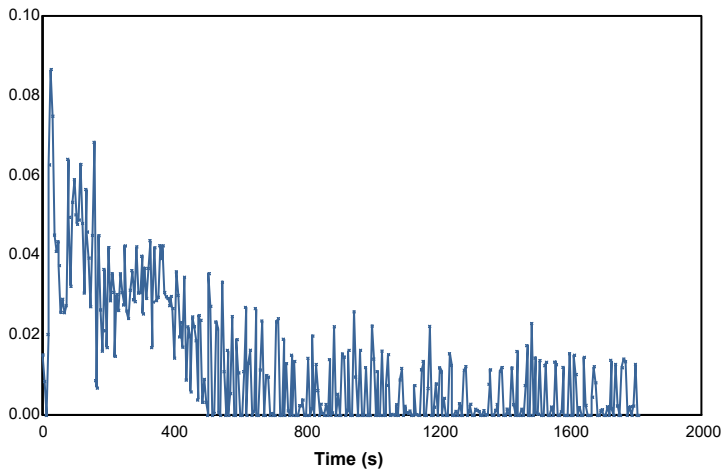
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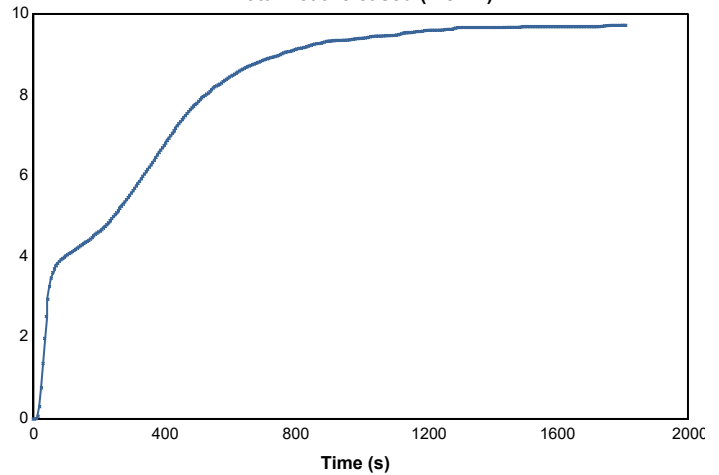
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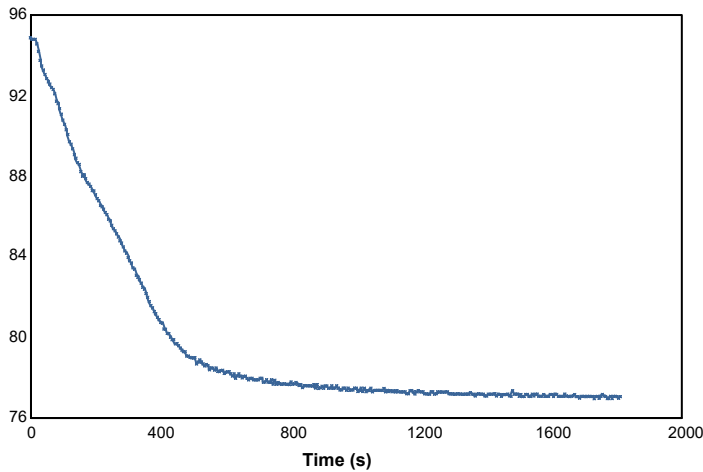
Mass loss rate (g/s)



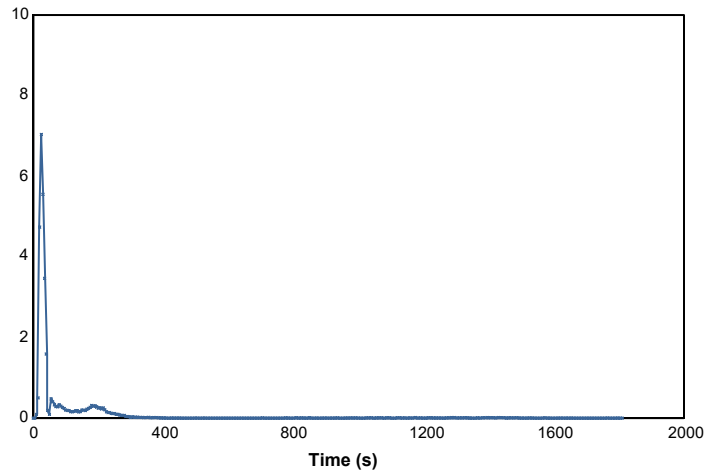
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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