

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 : Specialized Laminators Qld
175 Magnesium Drive
Crestmead QLD 4132

Test Number : 19-005000
Issue Date : 18/10/2019
Print Date : 21/10/2019

Sample Description Clients Ref : "Cleantouch HPL on MDF MR F25"
Rigid Panel
Colour : Black
End Use : Wall, Wall Lining
Nominal Composition : Melamine resin and fibre particle face with MDF core
Nominal Mass per Unit Area/Density : 13.5kg/m²
Nominal Thickness : 17.5mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 18/10/2019
Operator AWTA Test Operator 7
Face Tested Face

| | Specimen | | | | |
|----------------------------------|----------|------|------|------|--------------------|
| | 1 | 2 | 3 | Mean | |
| Average Heat Release Rate | 58.9 | 62.1 | 59.9 | 60.3 | kW/m ² |
| Average Specific extinction area | 44.0 | 27.4 | 49.8 | 40.4 | m ² /kg |

(according to Specification C1.10 of the Building Code of Australia)

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 | 17 | 15 | 17 | 16 | sec |
| Test duration | 3600 | 3600 | 3600 | 3600 | sec |
| Peak heat release after ignition | 199.2 | 161.9 | 210.5 | 190.5 | kW/m ² |
| Average heat at 60 s | 120.8 | 107.9 | 121.5 | 116.8 | kW/m ² |

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APPROVED SIGNATORY

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

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| | | | | | |
|---|-------|-------|-------|-------|---------------------|
| Average heat at 180 s | 134.0 | 112.9 | 124.9 | 123.9 | kW/m ² |
| Average heat at 300 s | 134.1 | 120.2 | 124.7 | 126.3 | kW/m ² |
| Total heat released | 211.1 | 222.5 | 214.5 | 216.0 | MJ/m ² |
| Average effective heat of combustion | 14.2 | 15.0 | 14.3 | 14.5 | MJ/kg |
| Initial thickness | 17.5 | 17.5 | 17.5 | 17.5 | mm |
| Initial mass | 138.7 | 138.2 | 138.7 | 138.5 | g |
| Mass at sustained flaming | 138.6 | 138.2 | 138.7 | 138.5 | g |
| Mass remaining | 18.2 | 17.9 | 17.3 | 17.8 | g |
| Mass percentage pyrolysed | 86.9 | 87.1 | 87.5 | 87.2 | % |
| Mass loss | 14.9 | 14.9 | 15.0 | 14.9 | kg/m ² |
| Average rate of mass loss | 4.2 | 4.1 | 4.2 | 4.2 | g/m ² .s |
| 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.

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.

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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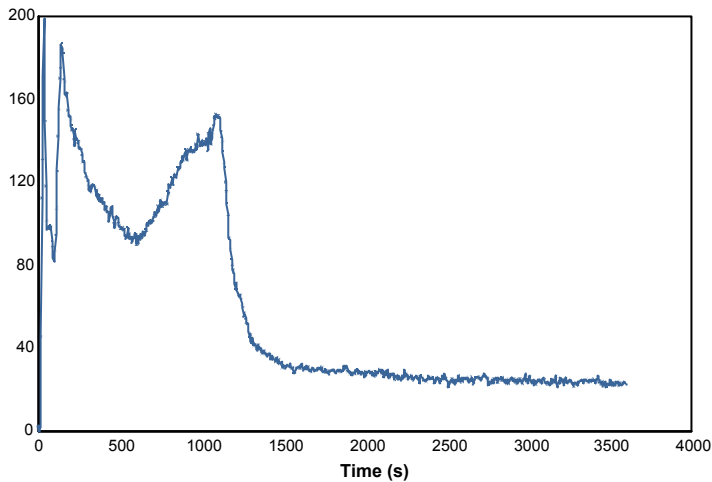
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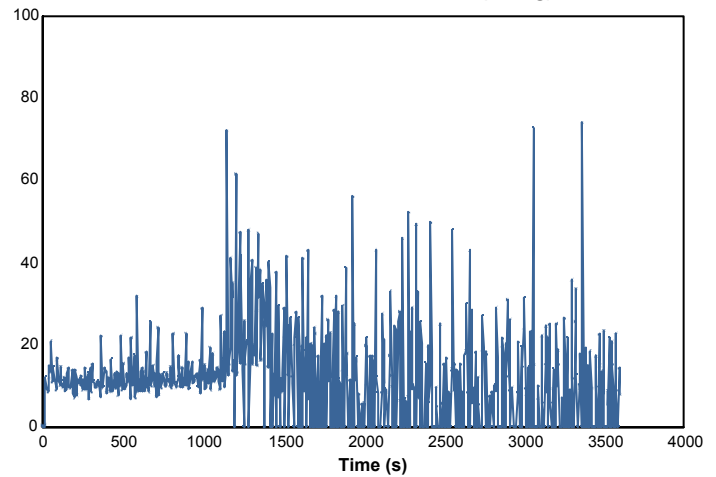
Test Number : 19-005000
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Specimen : 1

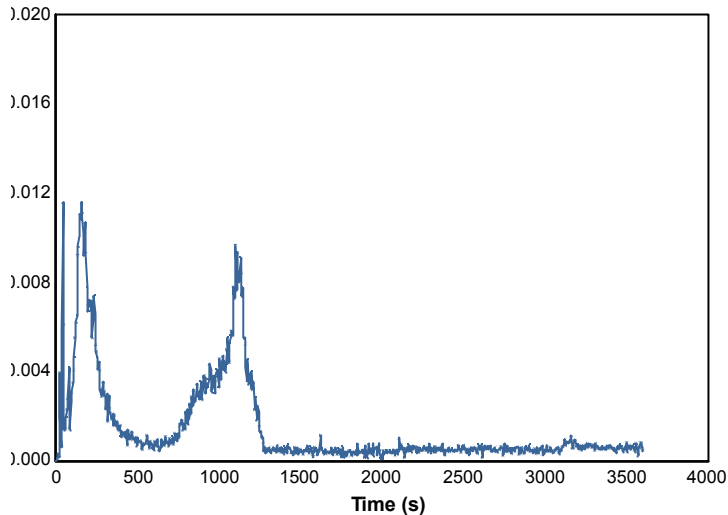
Heat release rate (kW/m²)



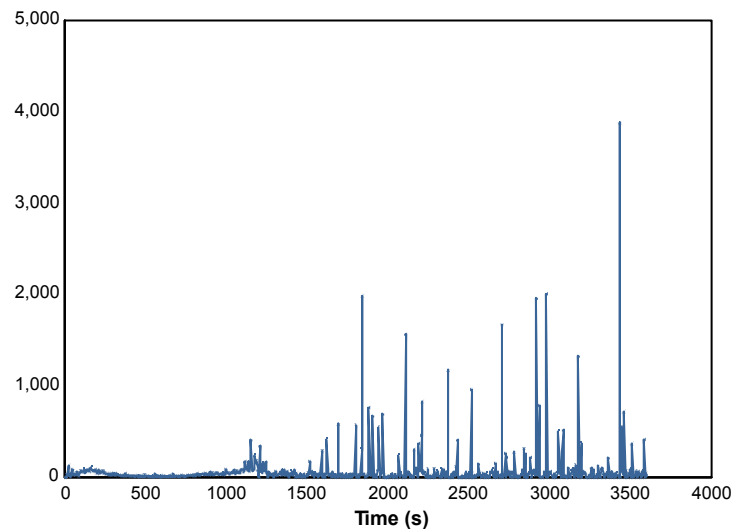
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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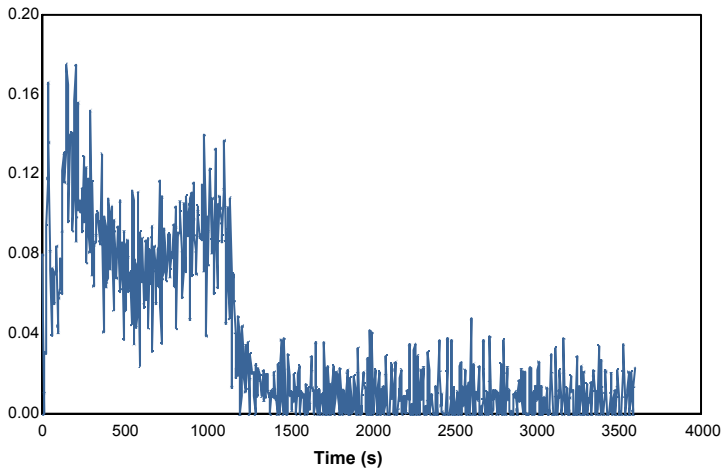
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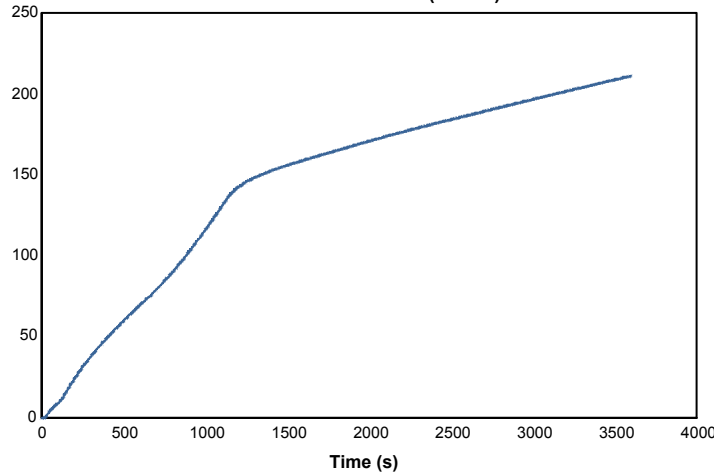
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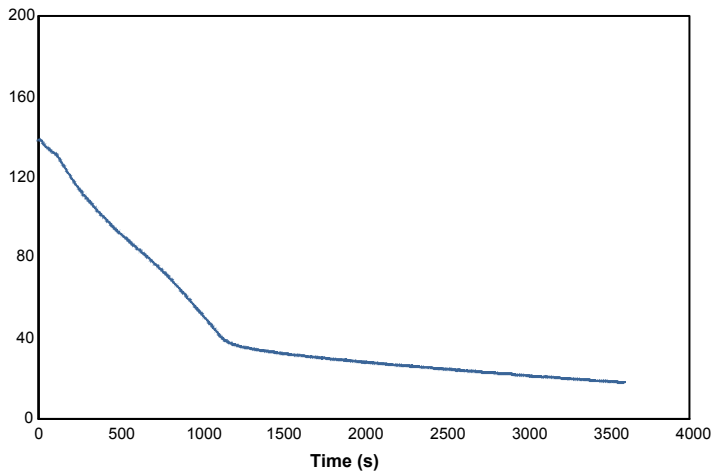
Mass loss rate (g/s)



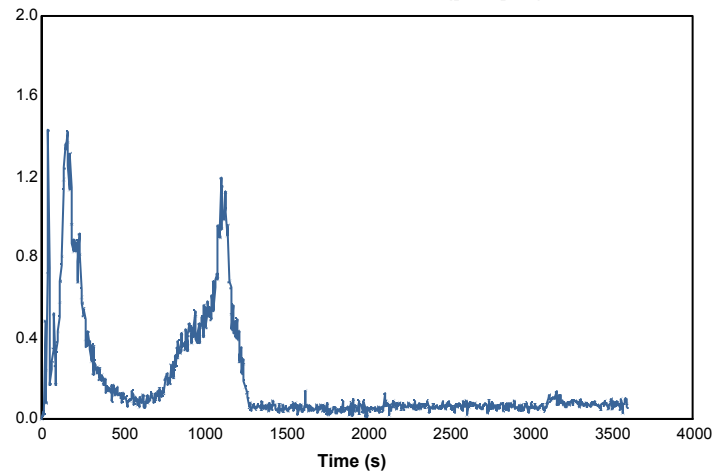
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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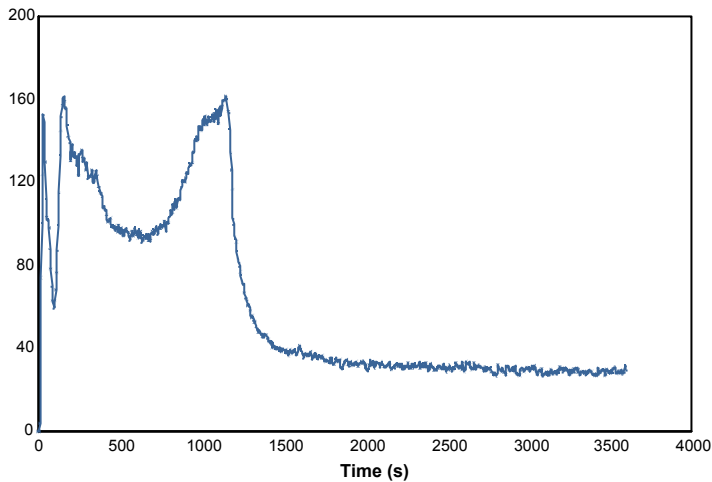
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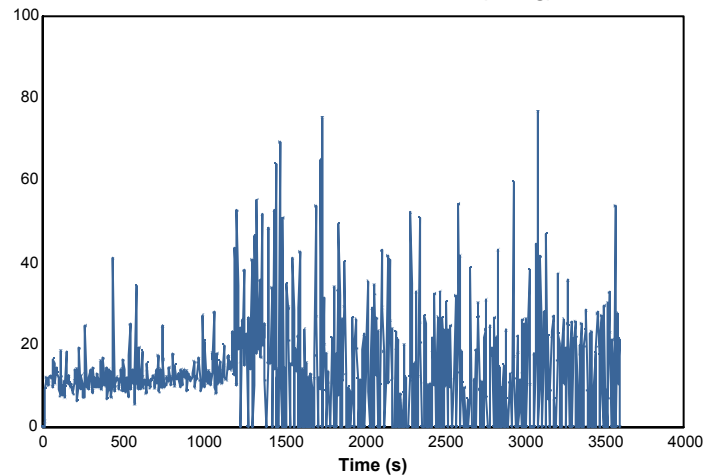
Test Number : 19-005000
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Specimen : 2

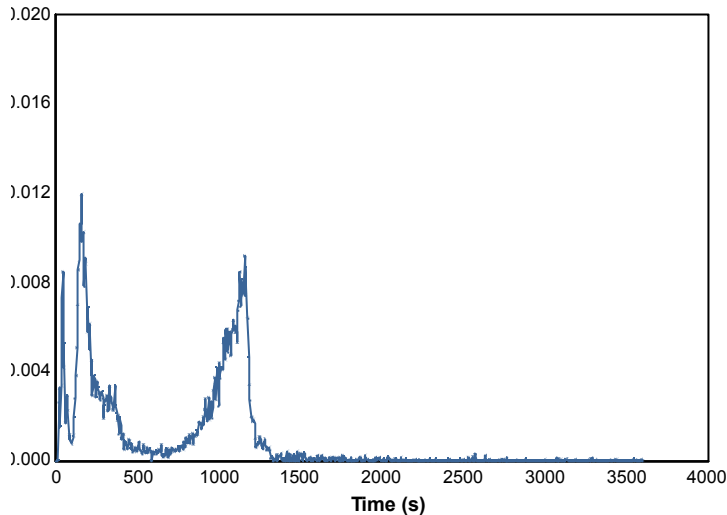
Heat release rate (kW/m²)



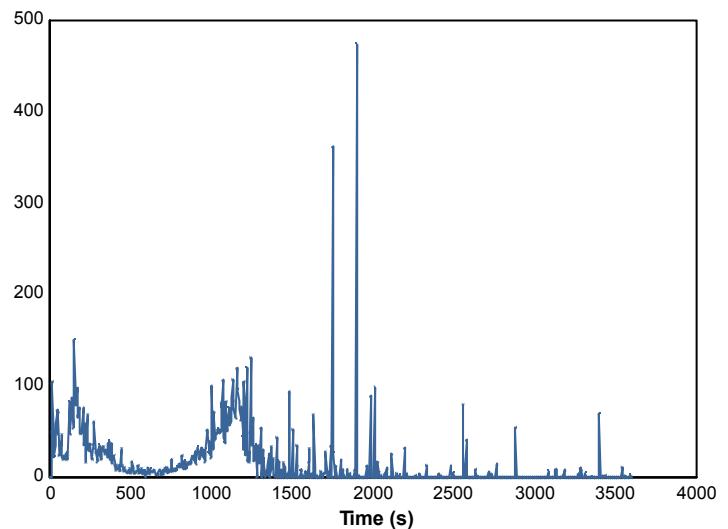
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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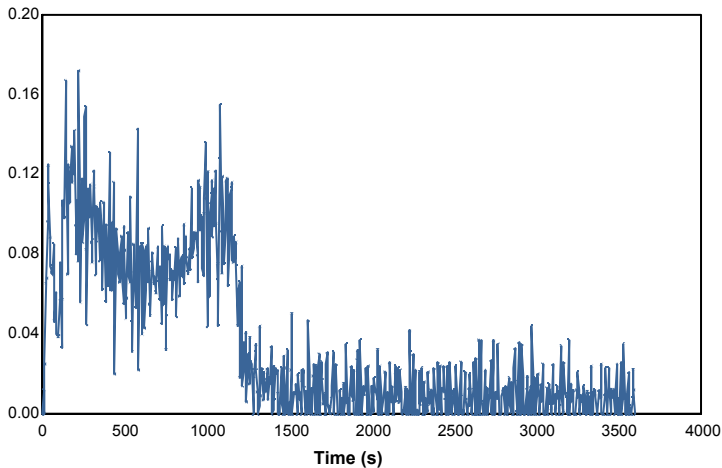
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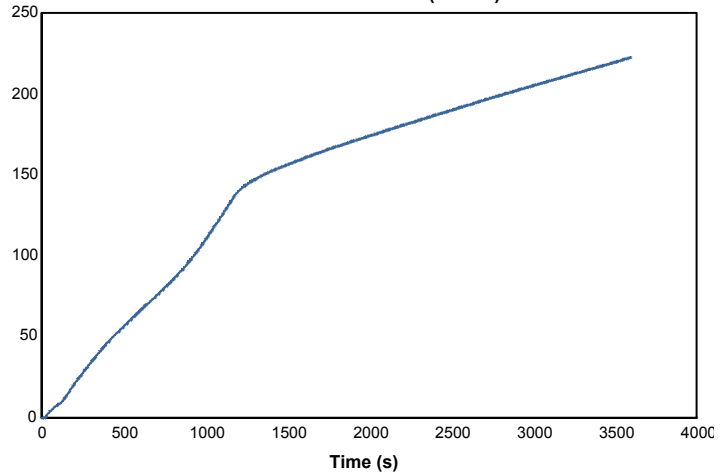
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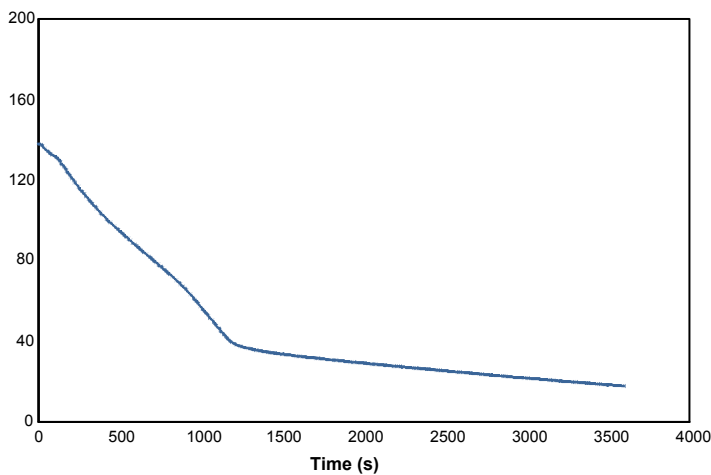
Mass loss rate (g/s)



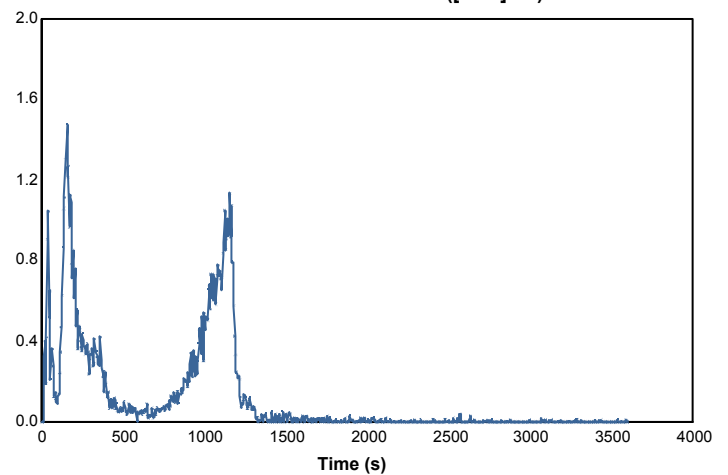
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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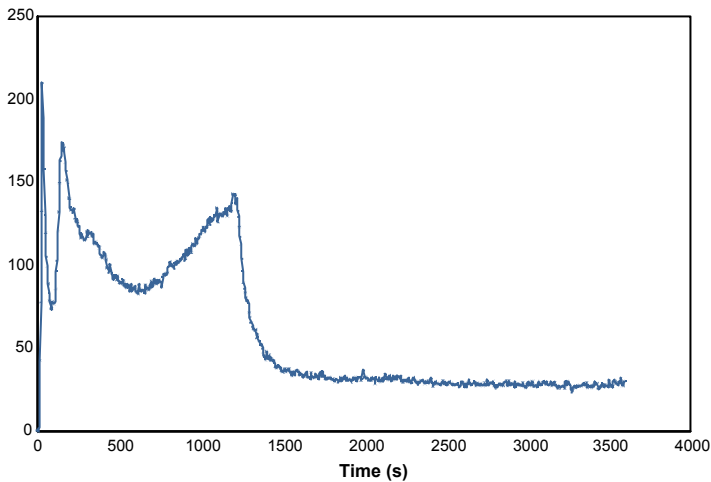
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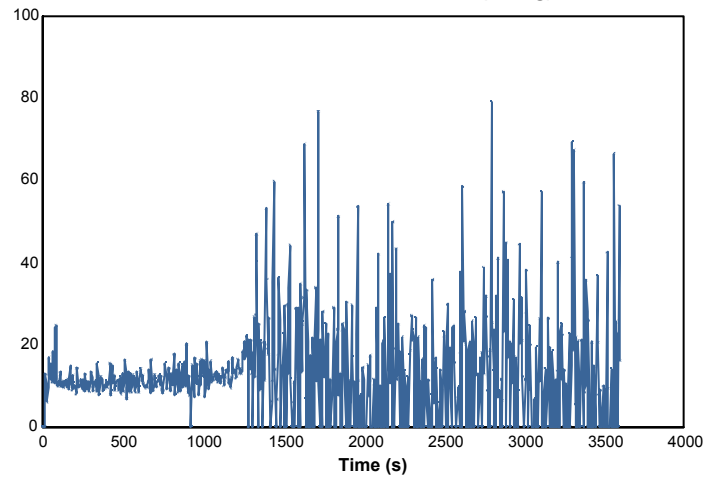
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Specimen : 3

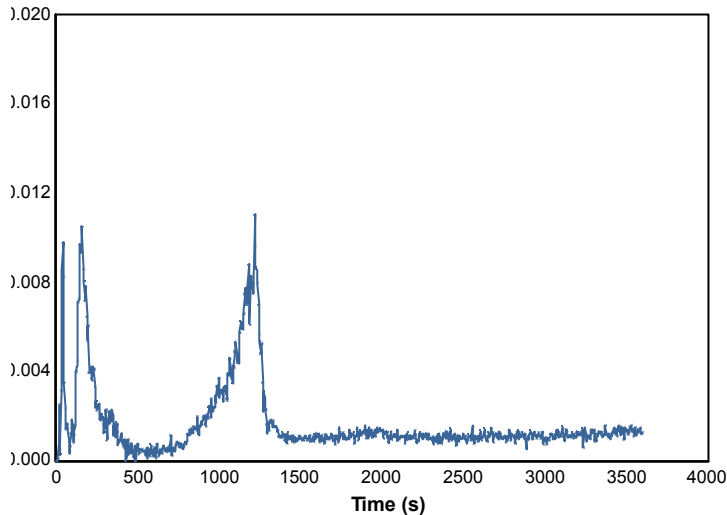
Heat release rate (kW/m²)



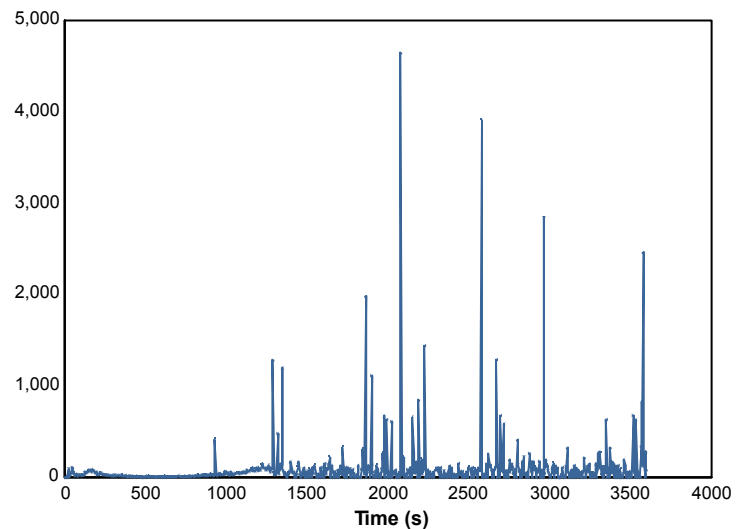
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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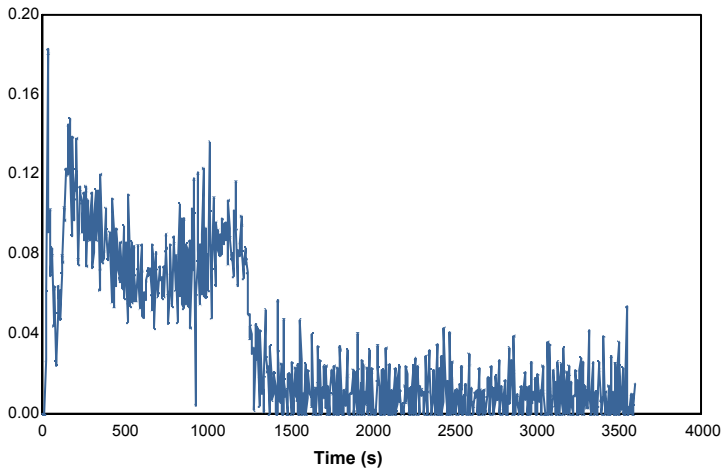
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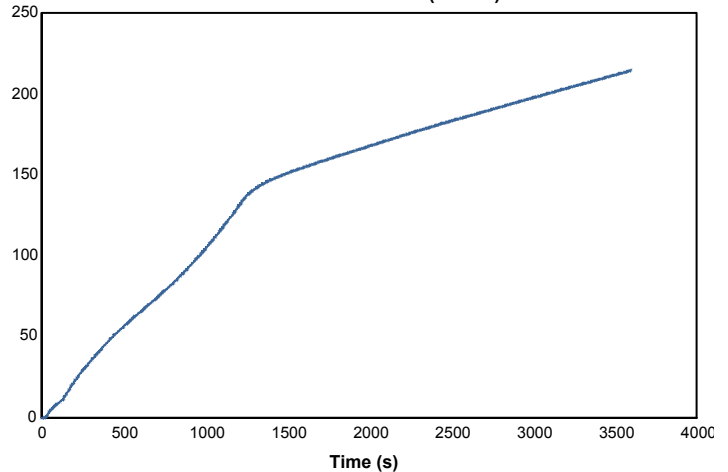
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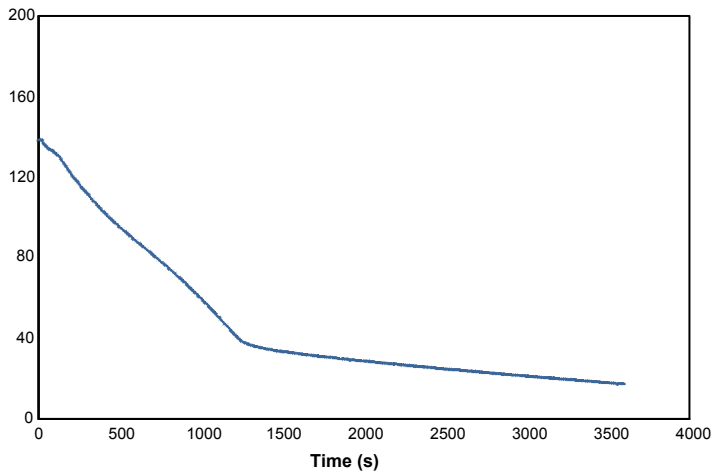
Mass loss rate (g/s)



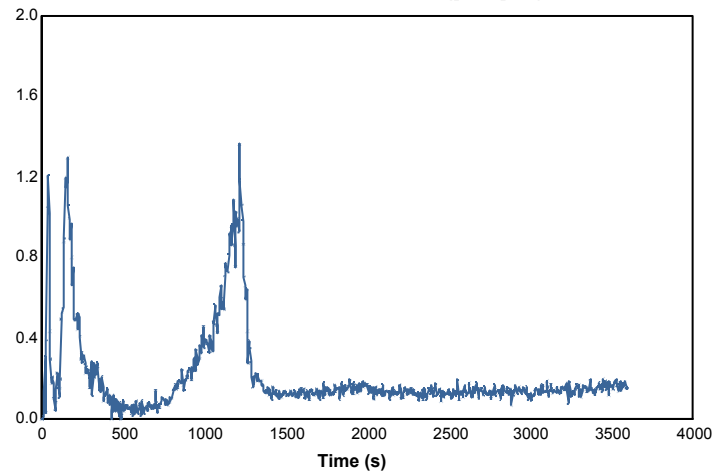
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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