

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 : Armstrong Flooring Pty Ltd
29-39 Mills Road
Braeside VIC 3195

Test Number : 21-003150
Issue Date : 15/07/2021
Print Date : 16/07/2021
Order Number : 131333

Sample Description Clients Ref : "Australis/Australis Foothold"
Vinyl flooring
Colour : Multicoloured
End Use : Flooring and Wall Covering
Nominal Composition : Filled PVC
Nominal Mass per Unit Area/Density : 3kg/m2
Nominal Thickness : 2mm

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

Date Tested 15-07-2021
Face Tested FACE

| | Specimen | | | | |
|----------------------------------|----------|-------|-------|-------|--------------------|
| | 1 | 2 | 3 | Mean | |
| Average Heat Release Rate | 64.7 | 66.5 | 64.7 | 65.3 | kW/m ² |
| Average Specific extinction area | 294.9 | 302.2 | 280.8 | 292.6 | 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 | 19 | 20 | 19 | sec |
| Test duration | 420 | 432 | 436 | 429 | sec |
| Peak heat release after ignition | 129.4 | 130.2 | 135.1 | 131.6 | kW/m ² |
| Average heat at 60 s | 102.4 | 98.5 | 100.2 | 100.4 | kW/m ² |

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Fiona McDonald

APPROVED SIGNATORY

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MANAGING DIRECTOR

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| | | | | | |
|--------------------------------------|-------|-------|-------|-------|---------------------|
| Average heat at 180 s | 105.4 | 105.4 | 104.8 | 105.2 | kW/m ² |
| Average heat at 300 s | 82.0 | 85.9 | 84.5 | 84.1 | kW/m ² |
| Total heat released | 25.9 | 27.5 | 27.1 | 26.8 | MJ/m ² |
| Average effective heat of combustion | 8.8 | 9.6 | 9.0 | 9.1 | MJ/kg |
| Initial thickness | 12 | 12 | 12 | 12.0 | mm |
| Initial mass | 90.3 | 88.8 | 84.4 | 87.8 | g |
| Mass remaining | 66.5 | 65.6 | 60.1 | 64.1 | g |
| Mass percentage pyrolysed | 26.4 | 26.1 | 28.8 | 27.1 | % |
| Mass loss | 2.9 | 2.9 | 3.0 | 2.9 | kg/m ² |
| Average rate of mass loss | 7.4 | 7.0 | 7.2 | 7.2 | 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.

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

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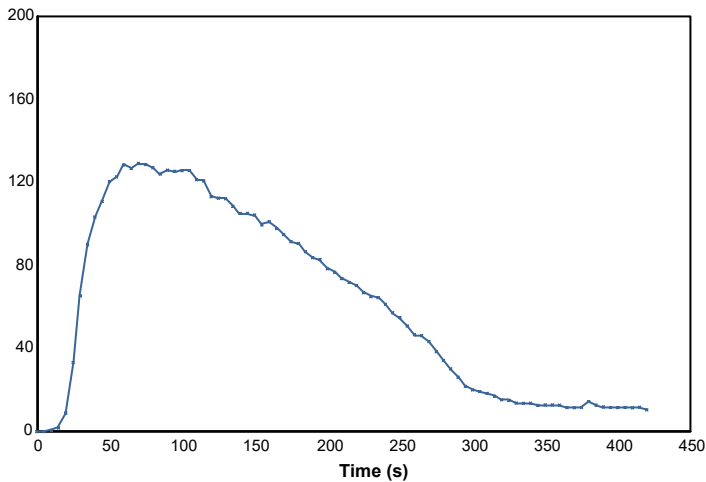
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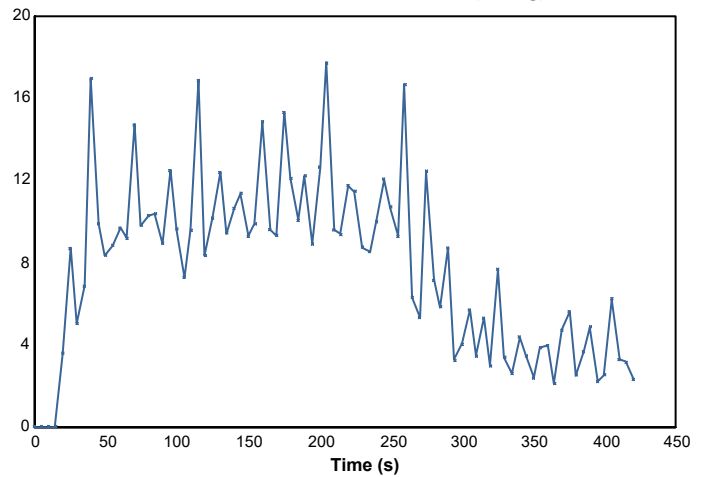
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Specimen : 1

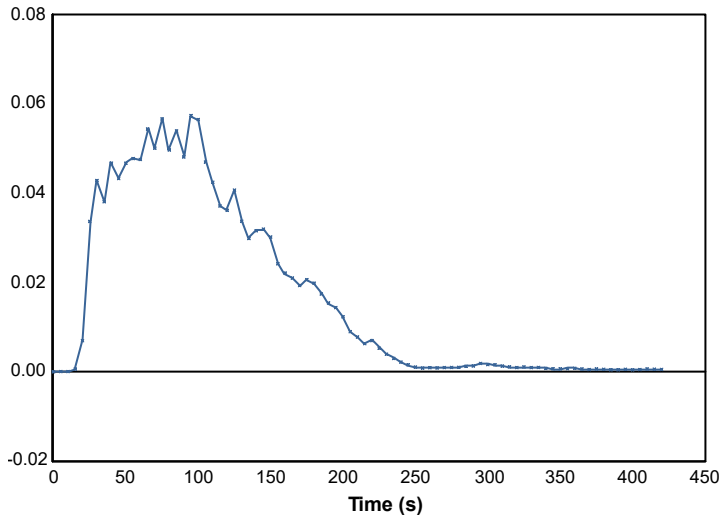
Heat release rate (kW/m²)



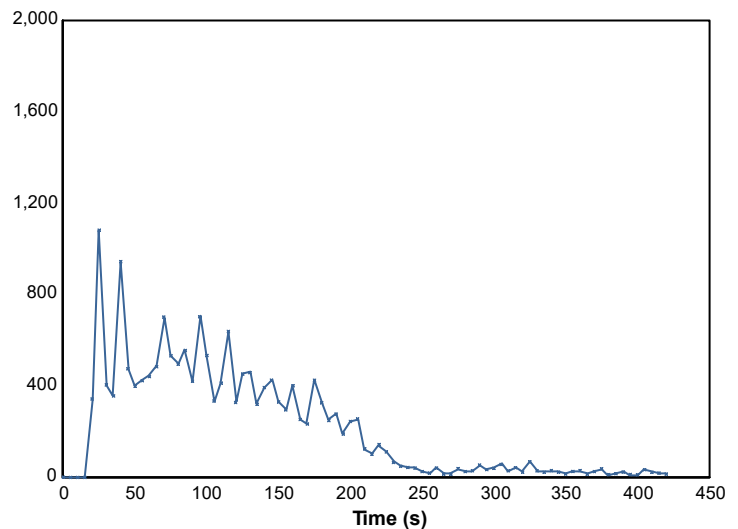
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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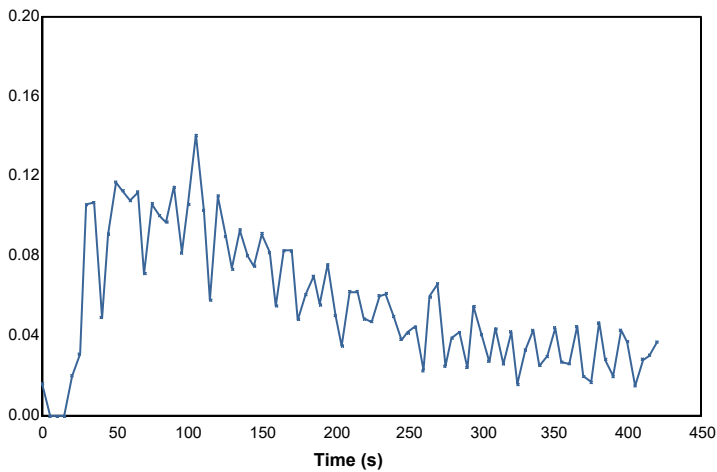
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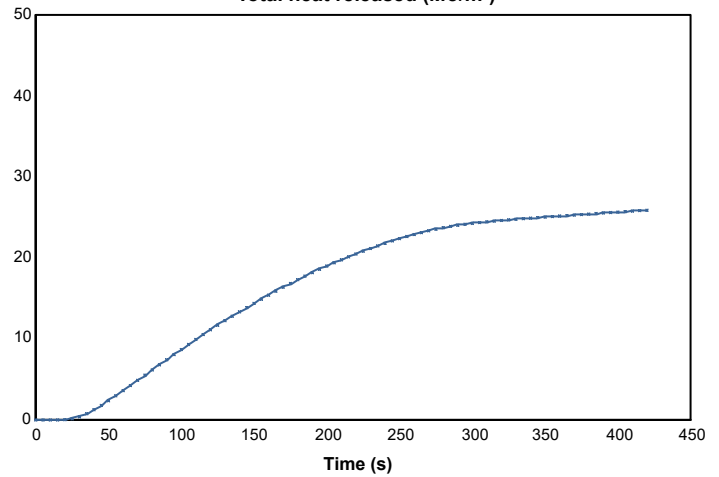
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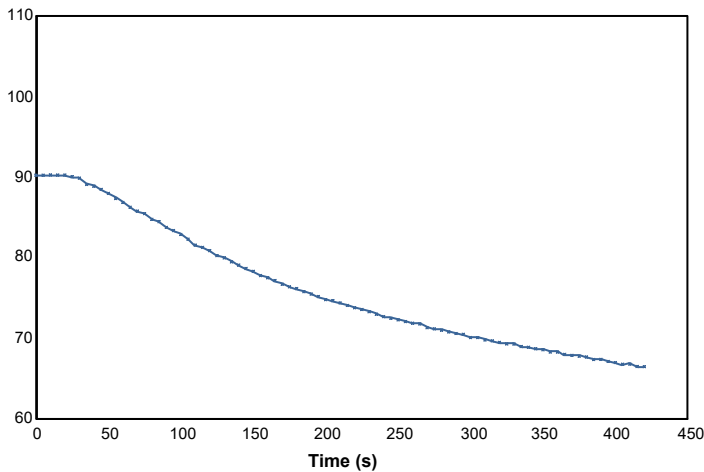
Mass loss rate (g/s)



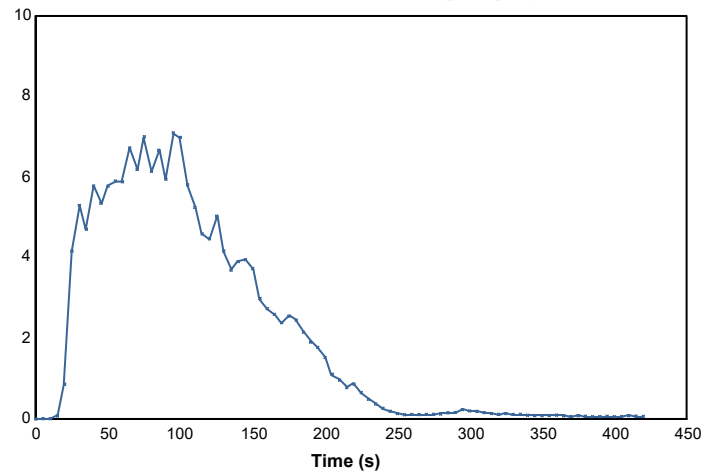
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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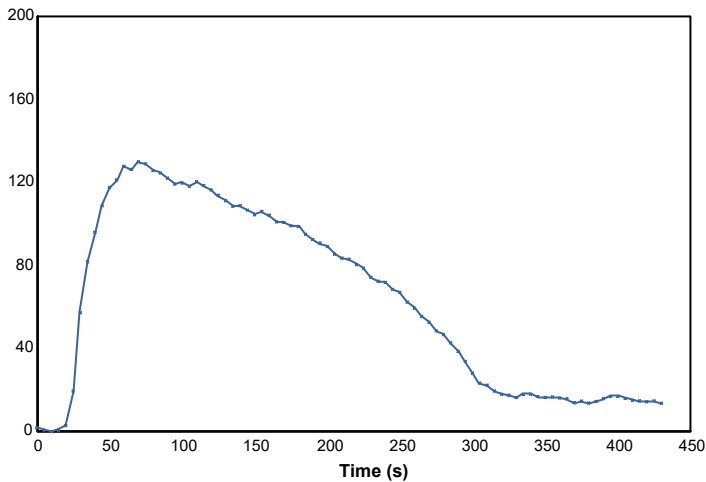
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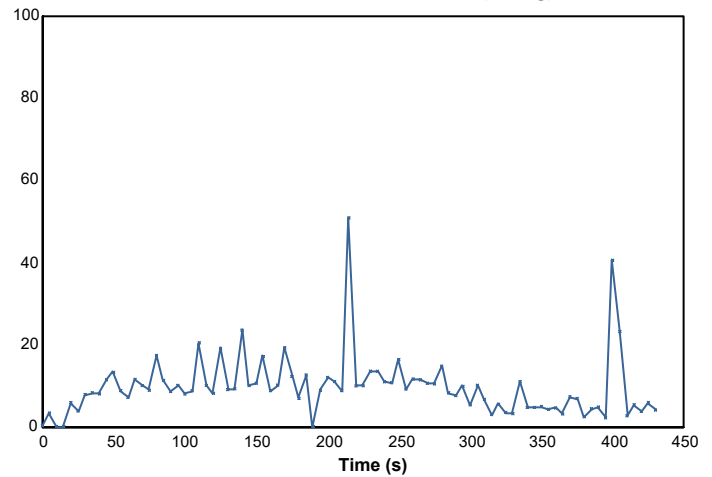
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Specimen : 2

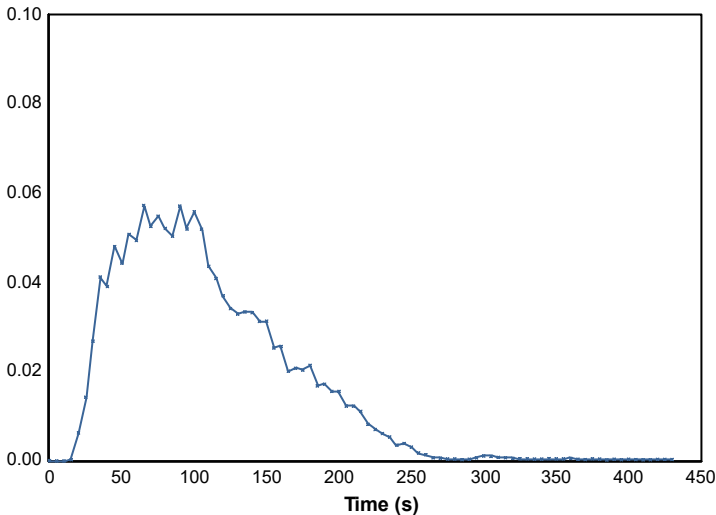
Heat release rate (kW/m²)



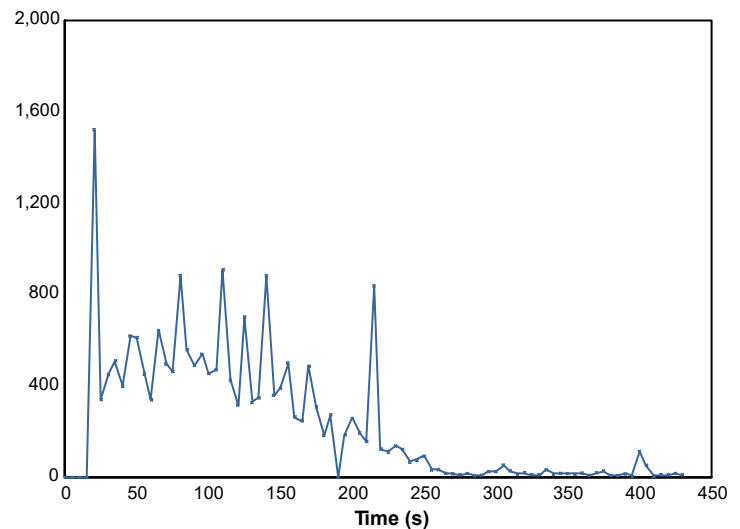
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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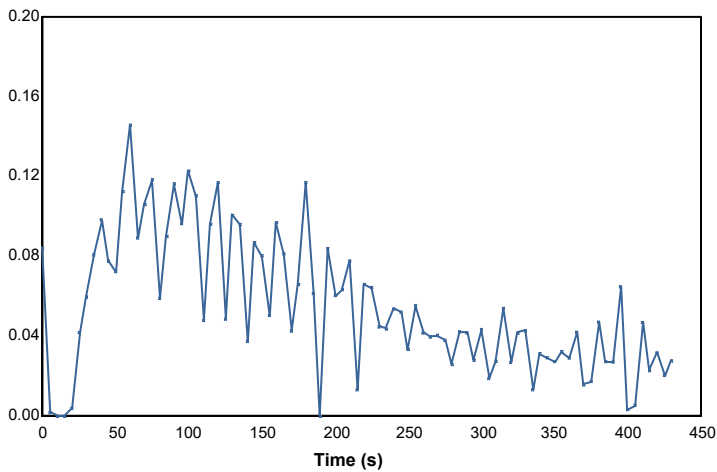
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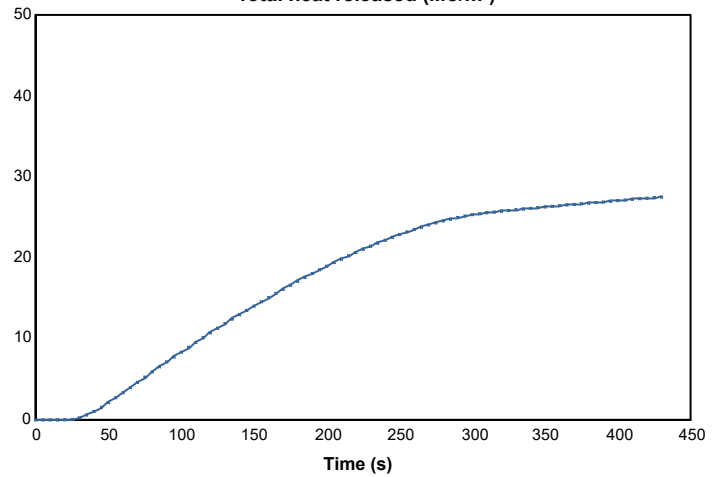
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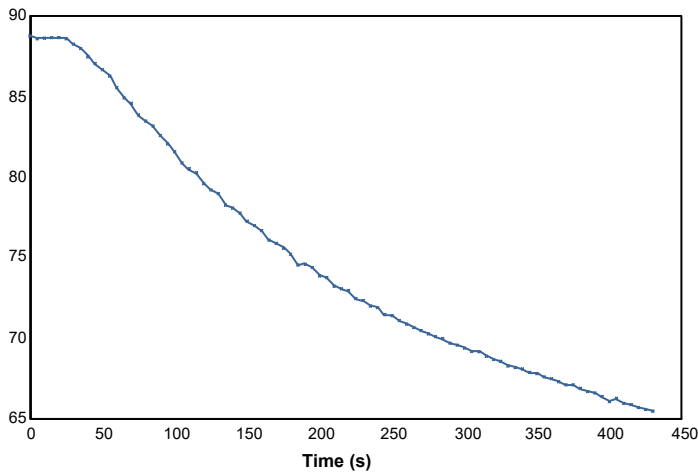
Mass loss rate (g/s)



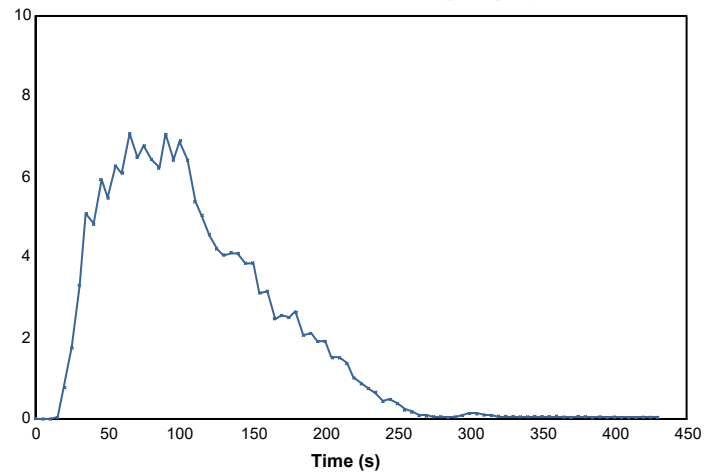
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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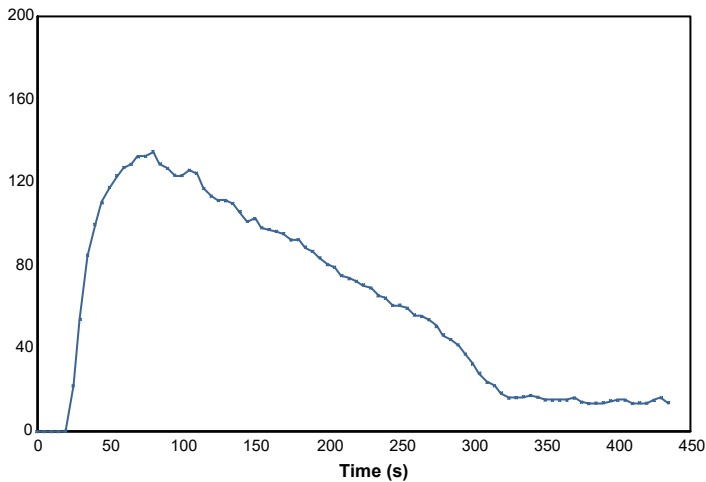
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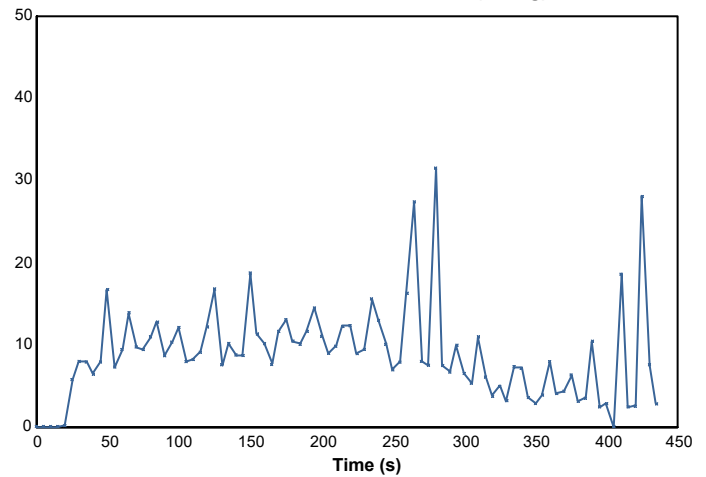
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Specimen : 3

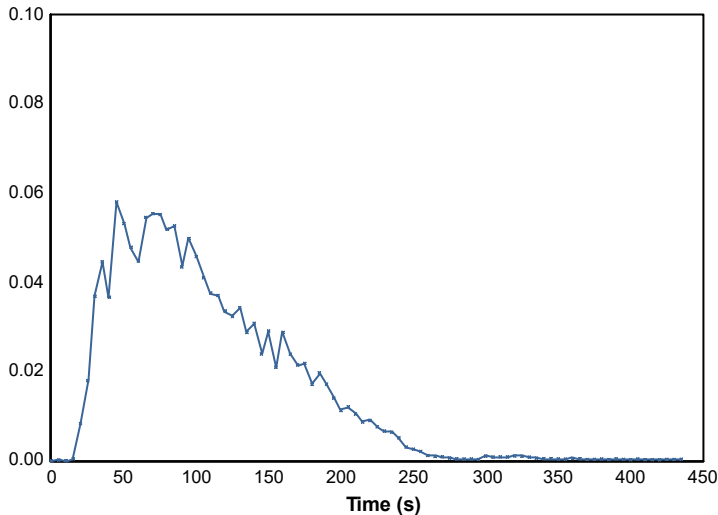
Heat release rate (kW/m²)



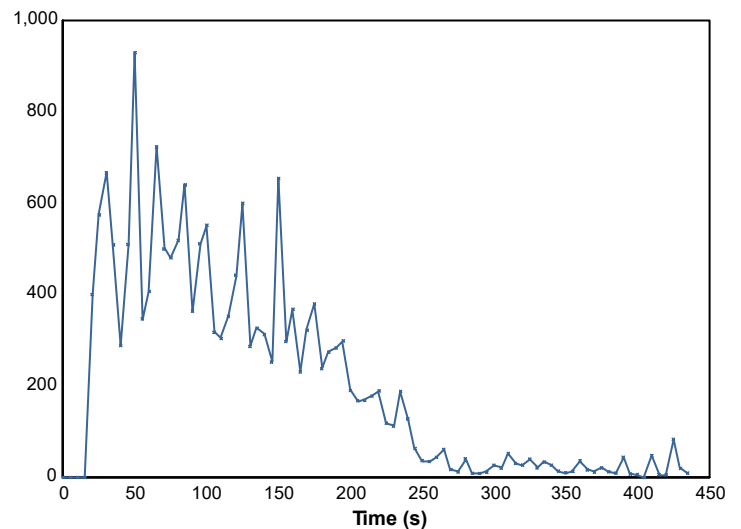
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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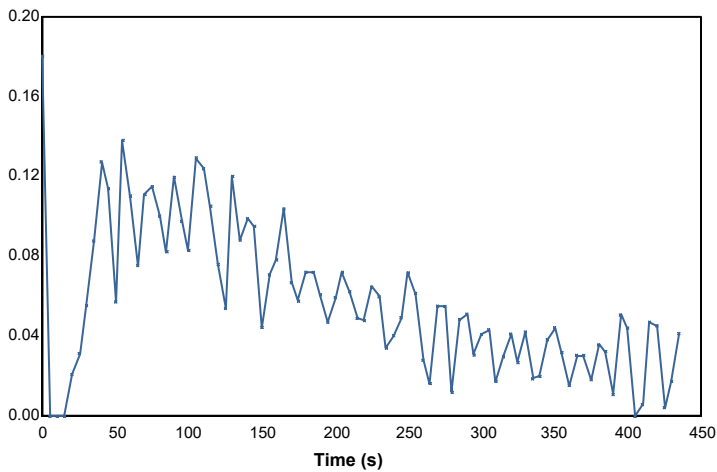
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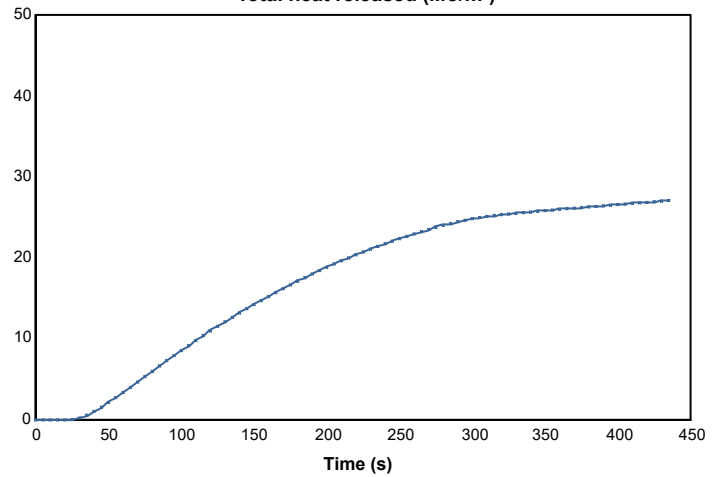
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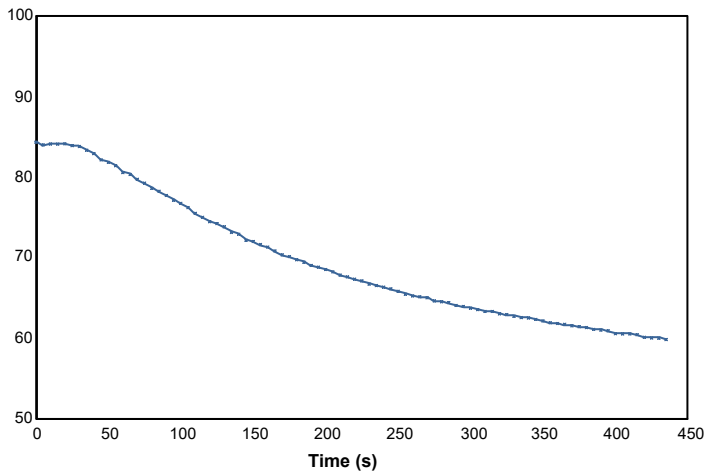
Mass loss rate (g/s)



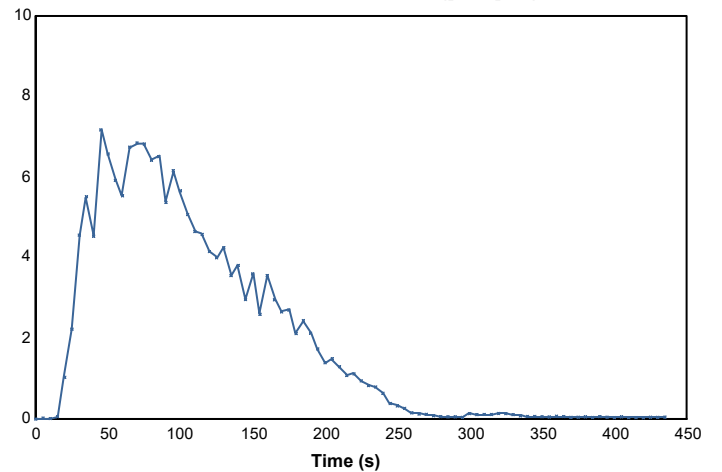
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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