

# 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 :** Cedar Sales Pty Ltd  
150 Toongarra Road  
Wulkuraka QLD 4305

**Test Number :** 17-001798  
**Issue Date :** 05/05/2017  
**Print Date :** 8/05/2017

**Sample Description** Rigid panel  
Colour : Natural  
End Use : Moulded panelling & Cladding  
Nominal Composition : Blackbutt  
Nominal Mass per Unit Area/Density : 900kg/m<sup>3</sup>  
Nominal Thickness : 50mm

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

|                                  | Specimen |      |      |      |                    |
|----------------------------------|----------|------|------|------|--------------------|
|                                  | 1        | 2    | 3    | Mean |                    |
| Average Heat Release Rate        | 68.0     | 64.7 | 63.6 | 65.4 | kW/m <sup>2</sup>  |
| Average Specific extinction area | 6.5      | 5.6  | 7.4  | 6.5  | m <sup>2</sup> /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 <sup>2</sup> |
| Exhaust flow rate                    | 24       | 24    | 24    | 24    | L/sec             |
| Time to sustained flaming            | 31       | 35    | 33    | 33    | sec               |
| Test duration                        | 3600     | 3600  | 3600  | 3600  | sec               |
| Peak heat release after ignition     | 213.0    | 219.2 | 224.7 | 219.0 | kW/m <sup>2</sup> |
| Average heat at 60 s                 | 171.0    | 167.9 | 166.5 | 168.5 | kW/m <sup>2</sup> |
| Average heat at 180 s                | 125.1    | 130.5 | 129.9 | 128.5 | kW/m <sup>2</sup> |
| Average heat at 300 s                | 104.2    | 108.2 | 109.5 | 107.3 | kW/m <sup>2</sup> |
| Total heat released                  | 242.3    | 230.8 | 226.6 | 233.3 | MJ/m <sup>2</sup> |
| Average effective heat of combustion | 10.7     | 9.7   | 9.5   | 10.0  | MJ/kg             |

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Page 1 of 8

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|                           |       |       |       |       |                     |
|---------------------------|-------|-------|-------|-------|---------------------|
| Initial thickness         | 38.0  | 38.0  | 38.0  | 38.0  | mm                  |
| Initial mass              | 336.1 | 344.7 | 333.3 | 338.0 | g                   |
| Mass remaining            | 134.6 | 134.6 | 122.3 | 130.5 | g                   |
| Mass percentage pyrolysed | 60.0  | 61.0  | 63.3  | 61.4  | %                   |
| Mass loss                 | 201.5 | 210.1 | 211.0 | 207.5 | g                   |
| Average rate of mass loss | 6.4   | 6.7   | 6.7   | 6.6   | g/m <sup>2</sup> .s |

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.

Specimen thickness was reduced to 38mm for testing purposes.

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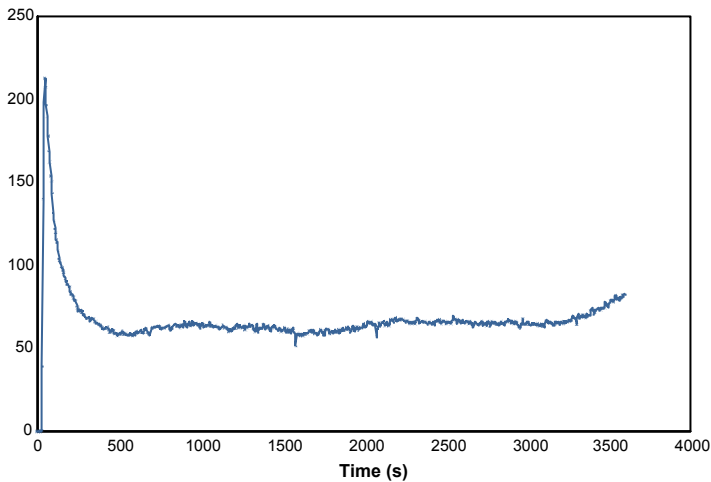
## TEST REPORT

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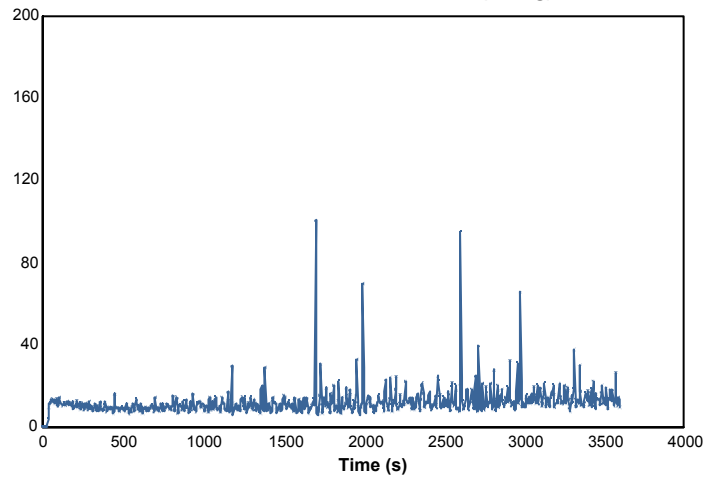
**Test Number :** 17-001798  
**Issue Date :** 05/05/2017  
**Print Date :** 8/05/2017

**Specimen :** 1

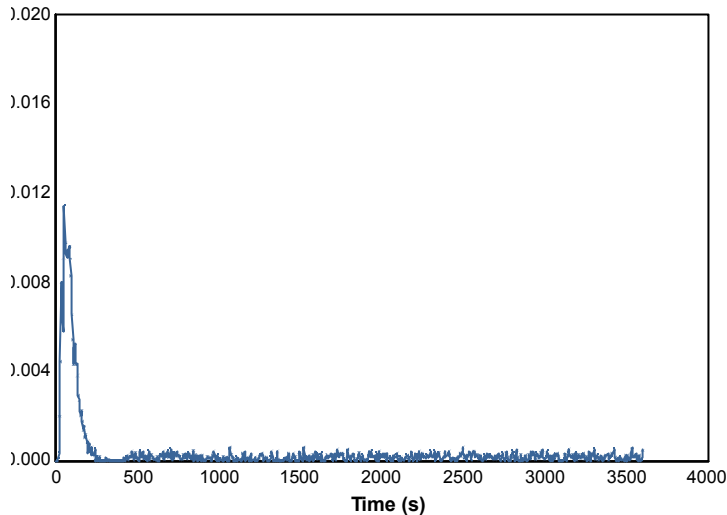
Heat release rate (kW/m<sup>2</sup>)



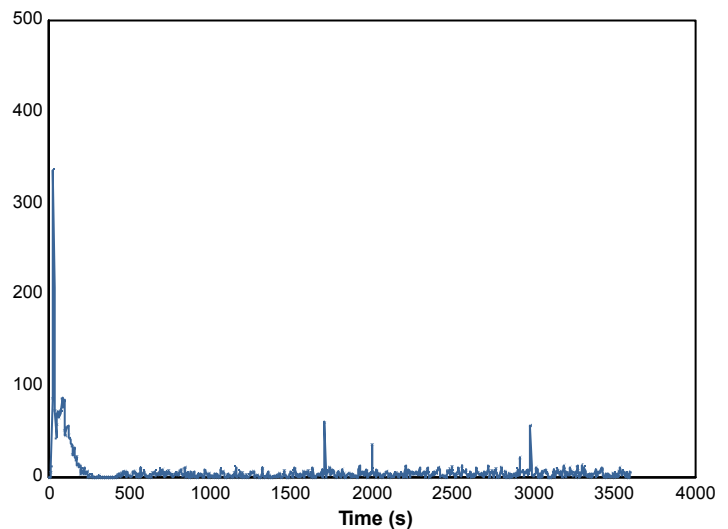
Effective heat of combustion (MJ/kg)



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



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



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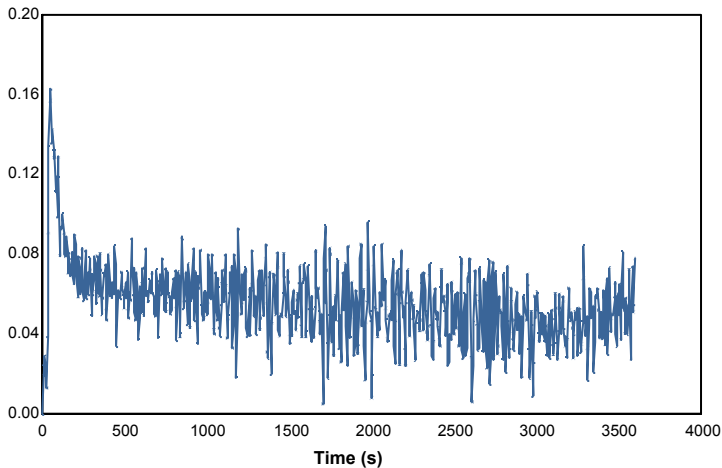
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## TEST REPORT

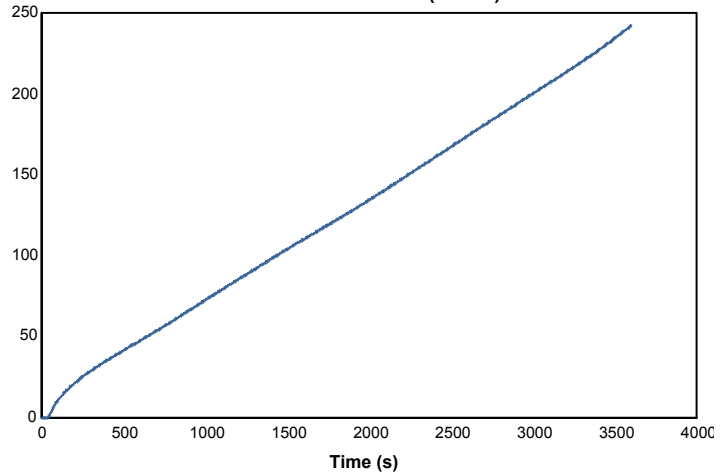
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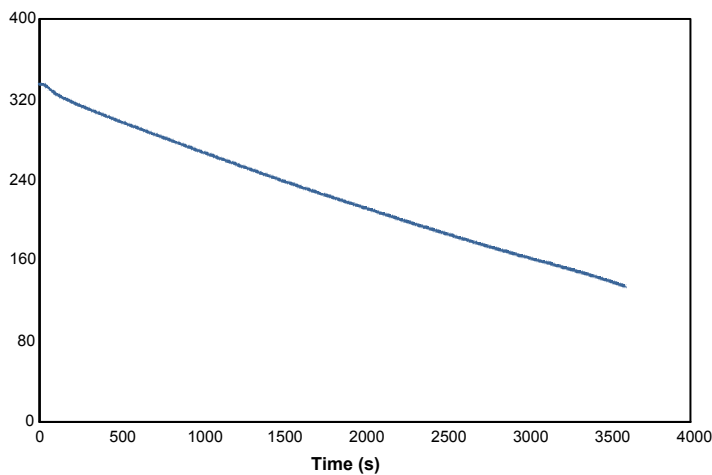
Mass loss rate (g/s)



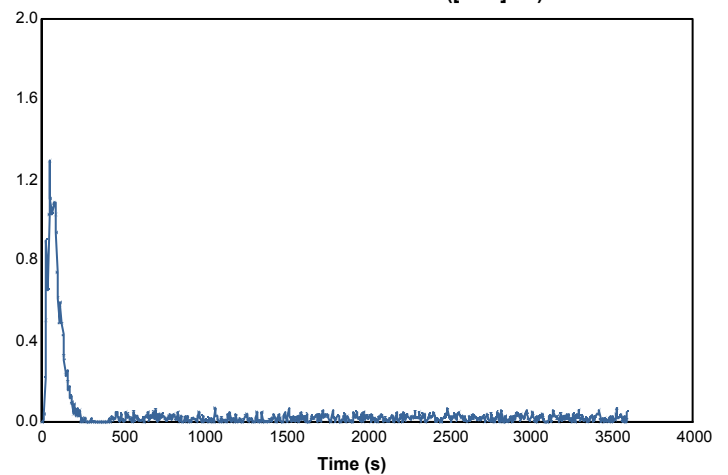
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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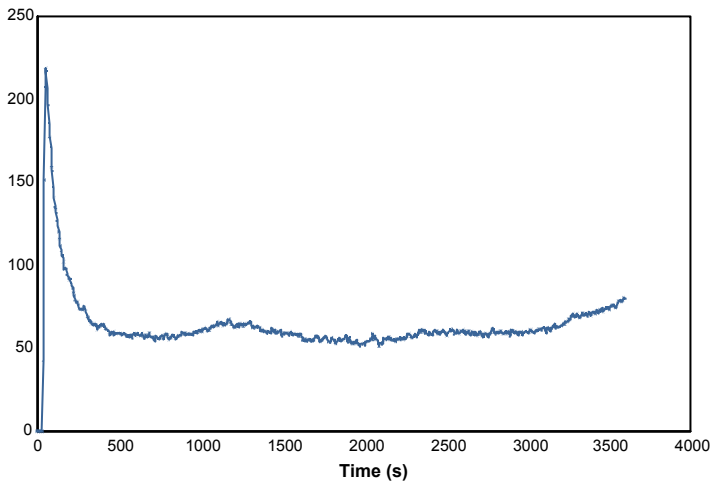
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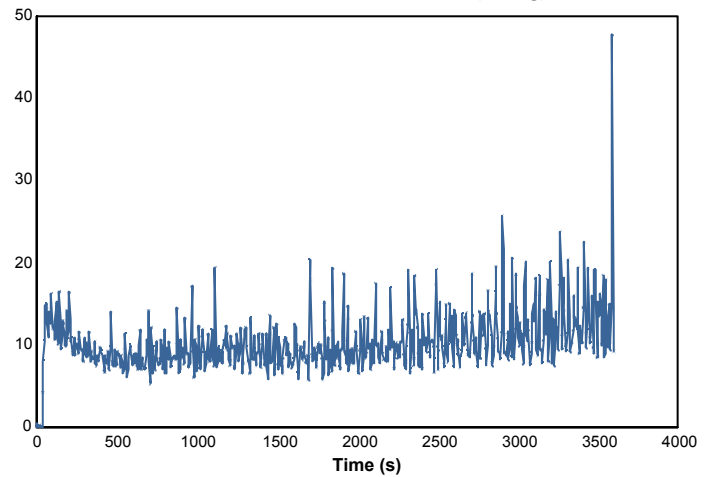
**Test Number :** 17-001798  
**Issue Date :** 05/05/2017  
**Print Date :** 8/05/2017

**Specimen :** 2

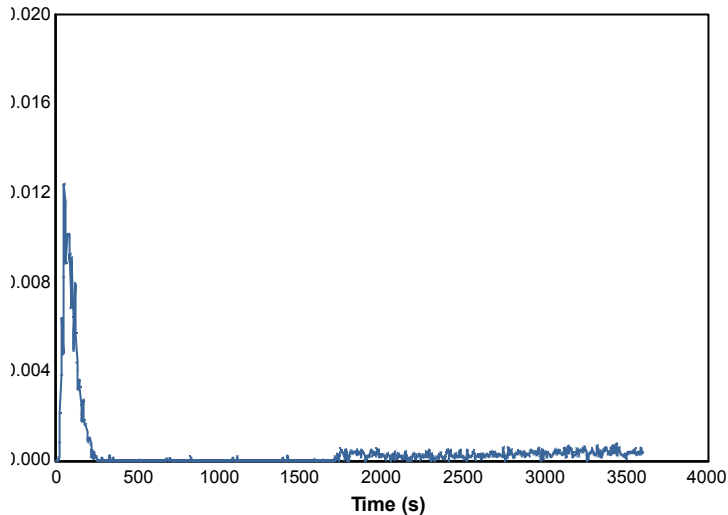
Heat release rate (kW/m<sup>2</sup>)



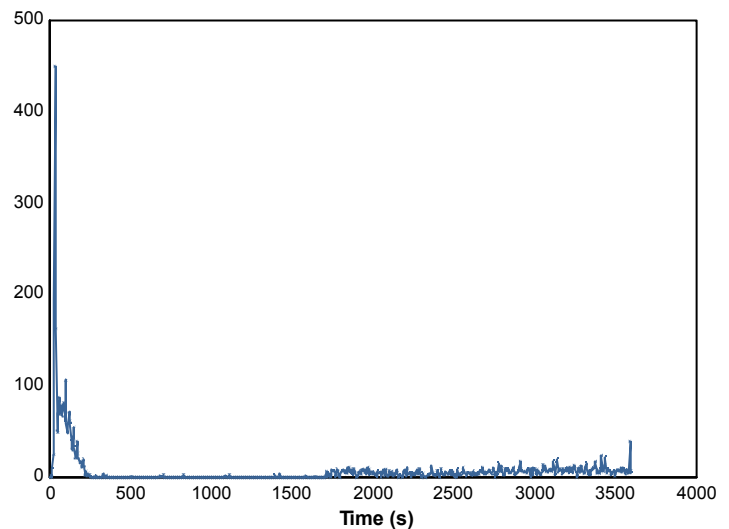
Effective heat of combustion (MJ/kg)



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



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



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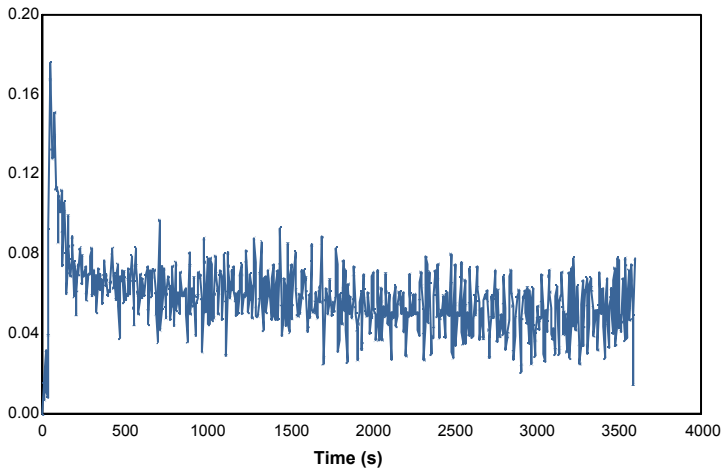
Phone (03) 9371 2400 Fax (03) 9371 2499

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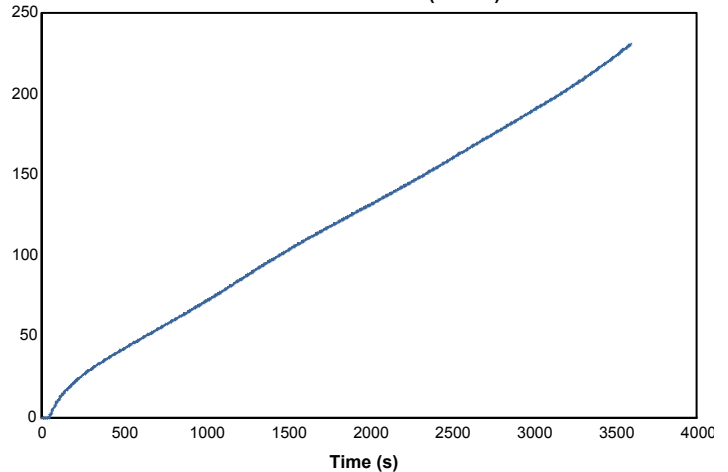
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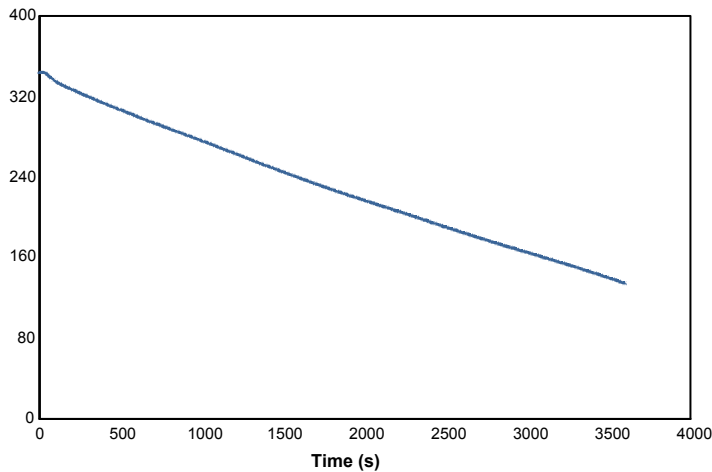
Mass loss rate (g/s)



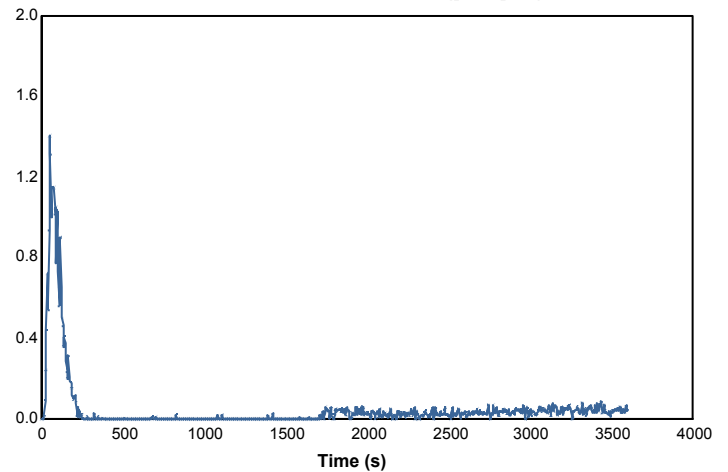
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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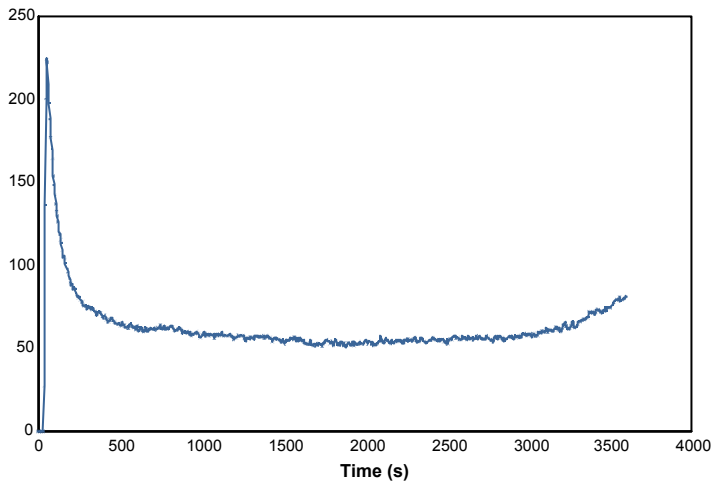
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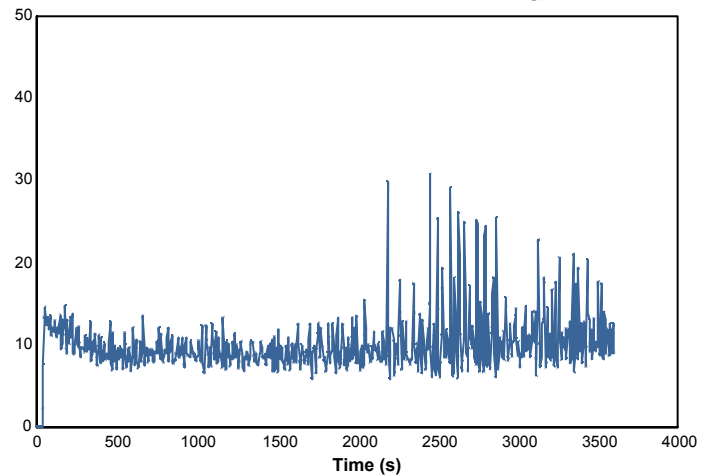
**Test Number :** 17-001798  
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**Specimen :** 3

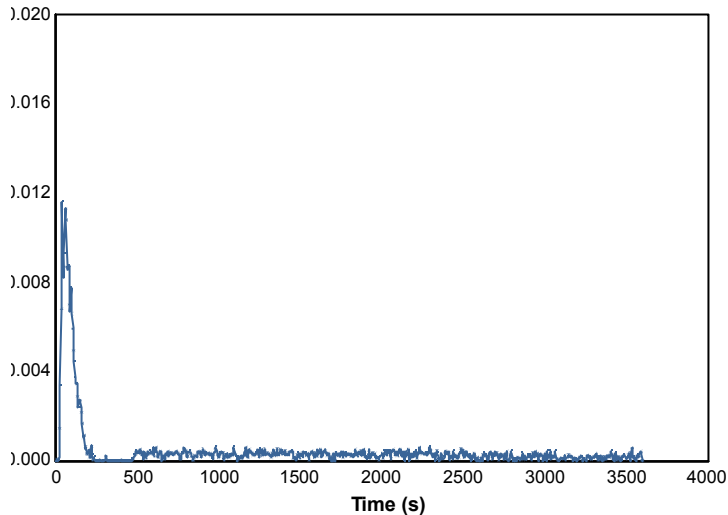
Heat release rate (kW/m<sup>2</sup>)



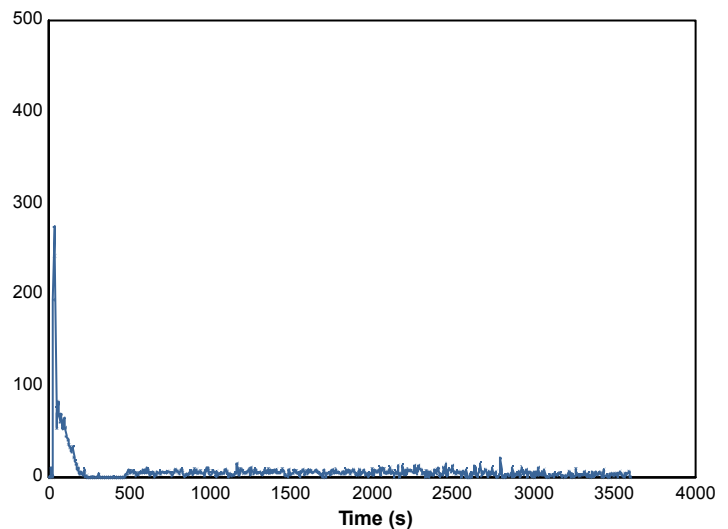
Effective heat of combustion (MJ/kg)



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



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



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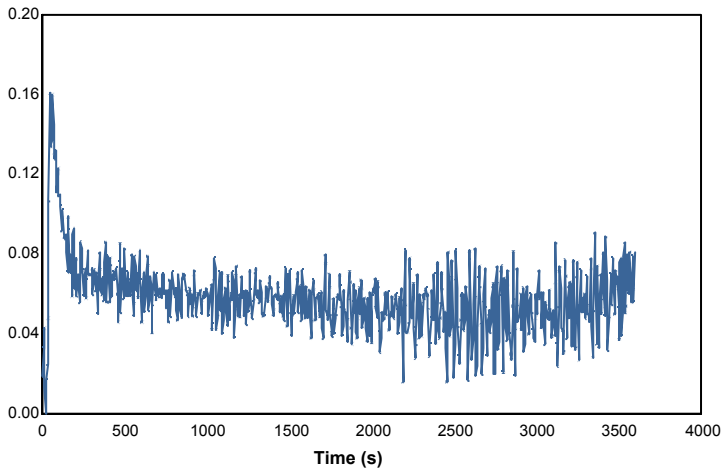
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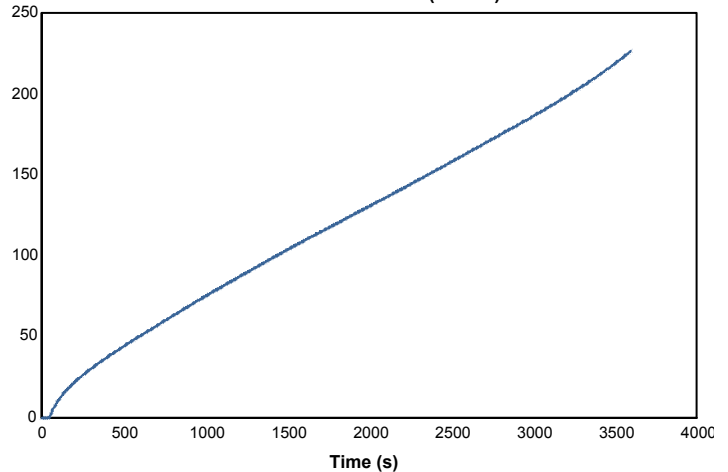
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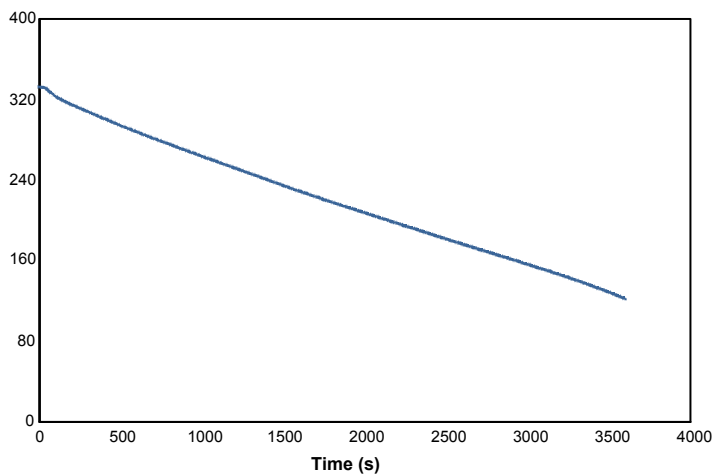
Mass loss rate (g/s)



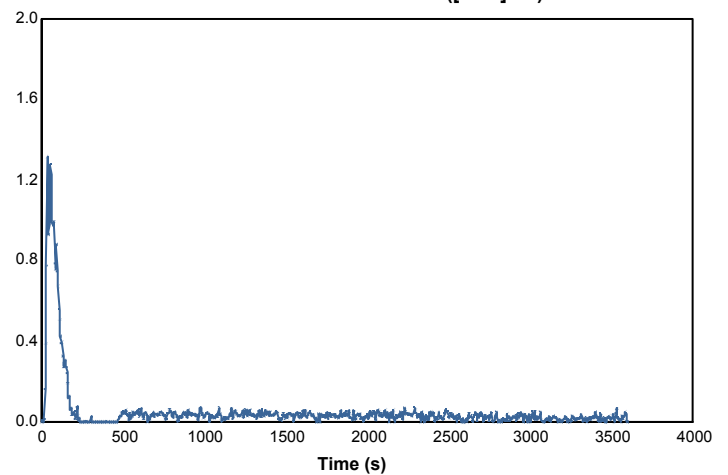
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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