

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

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing.

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Test Sponsor : The Laminex Group
22 Trewin Street
Wendouree VIC 3355

Test Number : 14-000494
Issue Date : 21/10/2014
Print Date : 29/08/2016

Sponsor Product Clients Ref : "Sample 15683 Particleboard STD/MR"
Rigid Panel
Nominal Composition : Particleboard
Nominal Mass per Unit Area/Density : 650kg/m³
Nominal Thickness : 16mm

Product Group Number Classification : 3
Average Specific Extinction Area : 55.8 m²/kg



Chris Campbell
Client Relations Manager

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TEST REPORT

Client : The Laminex Group
PO Box 720
Wendouree VIC 3355

Test Number : 14-000494
Issue Date : 21/10/2014
Print Date : 21/10/2014
Order Number : 1974

Sample Description Clients Ref : "Sample 15683 Particleboard STD/MR"
Rigid Panel
Nominal Composition : Particleboard
Nominal Mass per Unit Area/Density : 650kg/m3
Nominal Thickness : 16mm

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	53.1	53.4	57.4	54.6	kW/m ²
Average Specific extinction area	55.9	43.3	68.3	55.8	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	24	24	24	24	L/sec
Time to sustained flaming	39	35	36	37	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	213.1	209.8	223.5	215.5	kW/m ²
Average heat at 60 s	157.9	145.0	172.1	158.3	kW/m ²
Average heat at 180 s	165.0	164.3	176.4	168.6	kW/m ²
Average heat at 300 s	151.3	152.4	160.1	154.6	kW/m ²
Total heat released	188.9	190.3	204.3	194.5	MJ/m ²
Average effective heat of combustion	14.9	15.5	16.8	15.7	MJ/kg

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- Chemical Testing of Textiles & Related Products : Accreditation No. 983
- Mechanical Testing of Textiles & Related Products : Accreditation No. 985
- Heat & Temperature Measurement : Accreditation No. 1356



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Test Number : 14-000494
Issue Date : 21/10/2014
Print Date : 21/10/2014
Order Number : 1974

Initial thickness	16.0	16.0	16.0	16.0	mm
Initial mass	111	106	106.2	107.7	g
Mass remaining	8.0	6.3	6.7	7.0	g
Mass percentage pyrolysed	92.8	94.1	93.7	93.5	g
Mass loss	103.0	99.7	99.5	100.7	g
Average rate of mass loss	3.6	3.4	3.4	3.5	g/m ² .s

The formulae given in the Building Code of Australia have been shown to give inaccuracies in determination of Group Number for certain materials. Due to this AWTA Product Testing no longer reports Group Numbers. The formulae for calculation of Group number is available from the website of the Australian Building Codes Board. The results reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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 simulated airgap, consisting of the sample resting on a 12mm spacer.

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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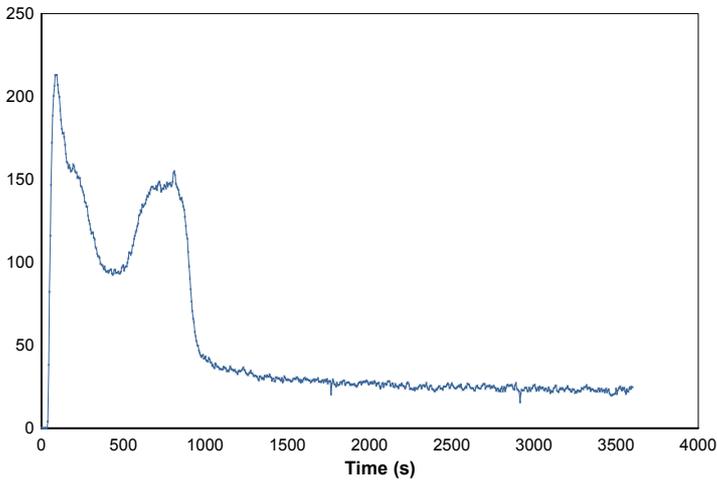
TEST REPORT

Client : The Laminex Group
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Wendouree VIC 3355

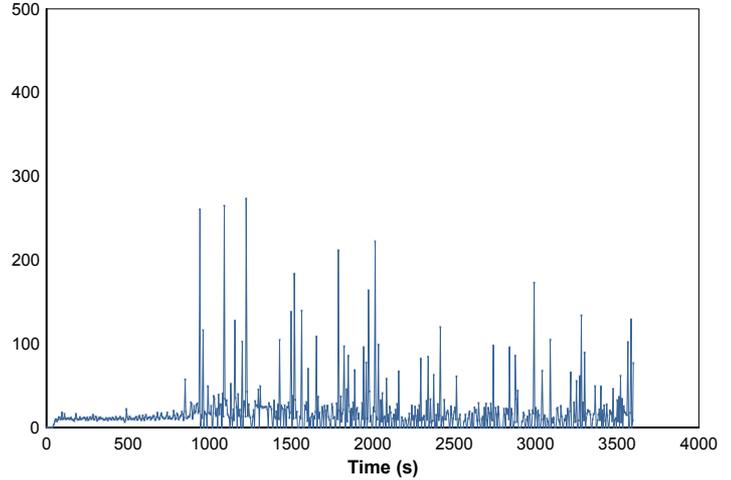
Test Number : 14-000494
Issue Date : 21/10/2014
Print Date : 21/10/2014
Order Number : 1974

Specimen : 1

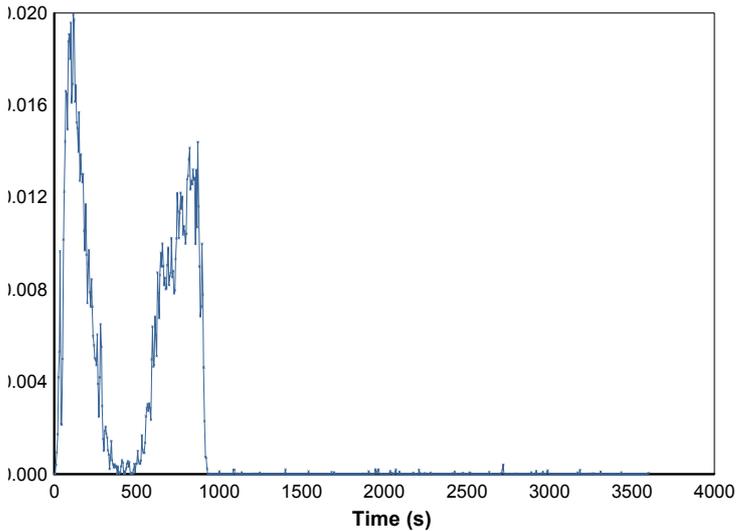
Heat release rate (kW/m²)



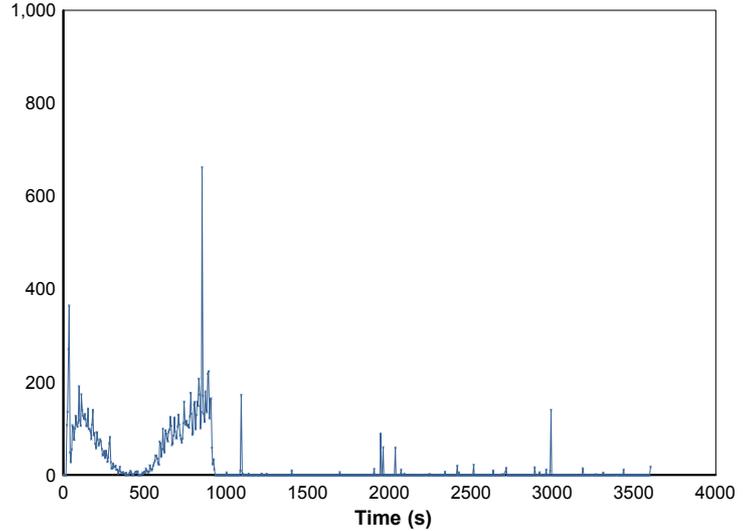
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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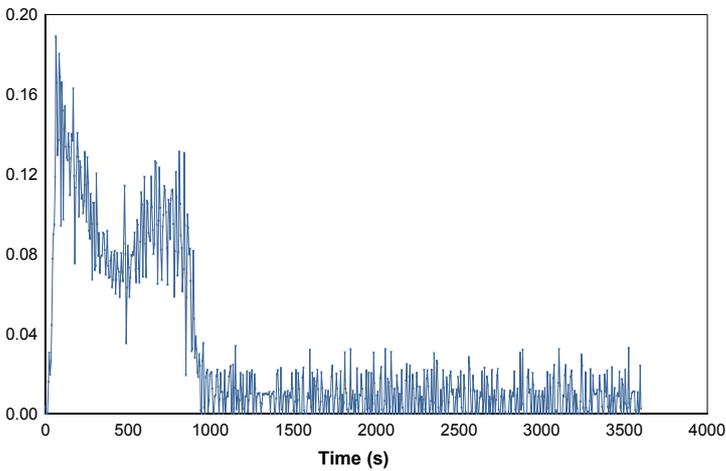
1st Floor, 191 Racecourse Road, Flemington, Victoria 3031
P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

TEST REPORT

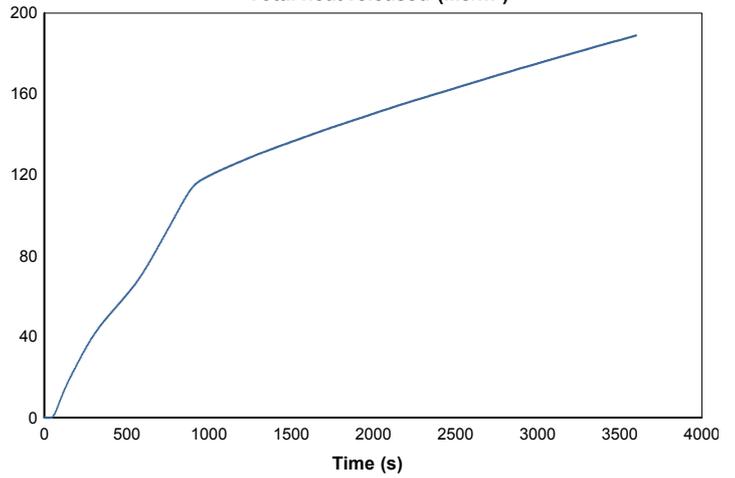
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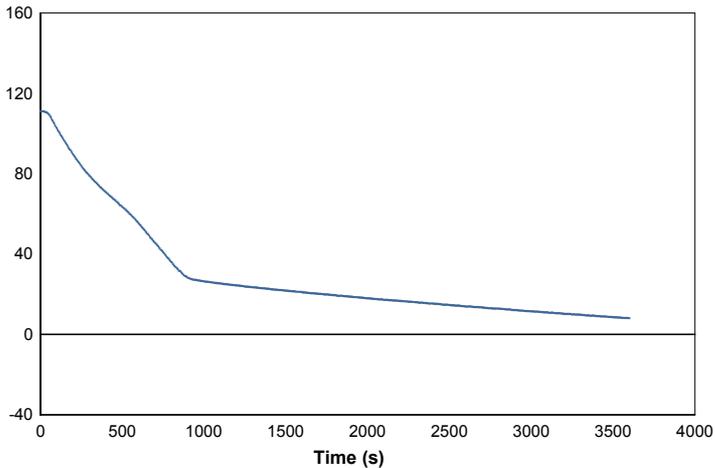
Mass loss rate (g/s)



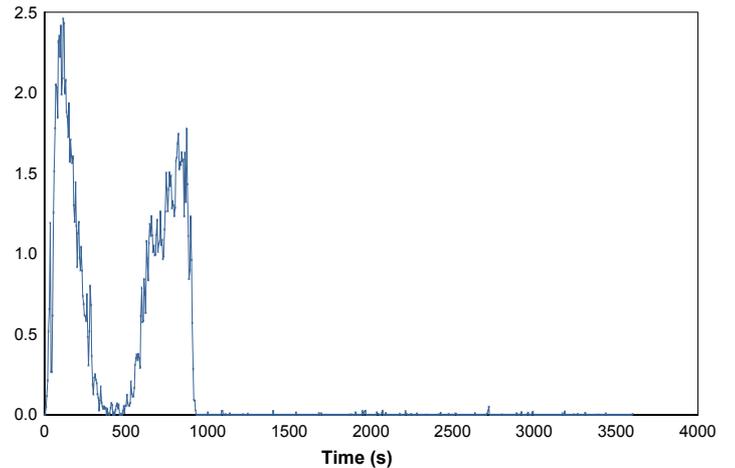
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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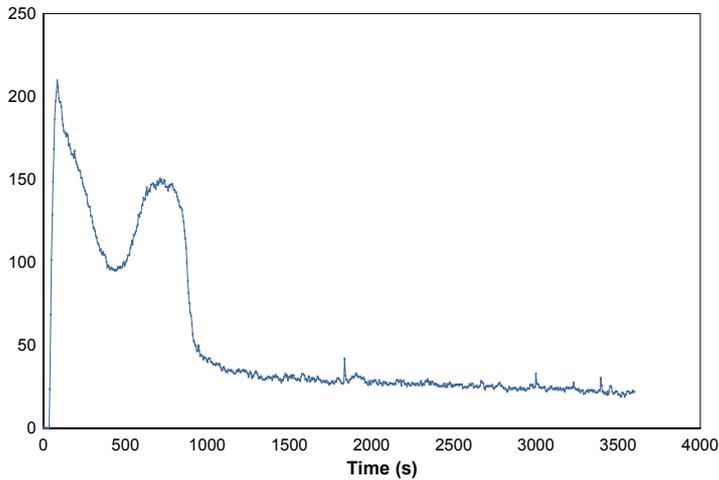
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Client : The Laminex Group
PO Box 720
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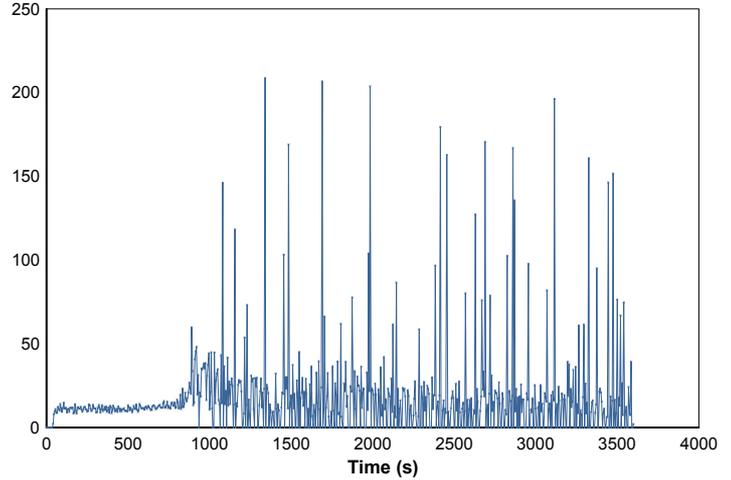
Test Number : 14-000494
Issue Date : 21/10/2014
Print Date : 21/10/2014
Order Number : 1974

Specimen : 2

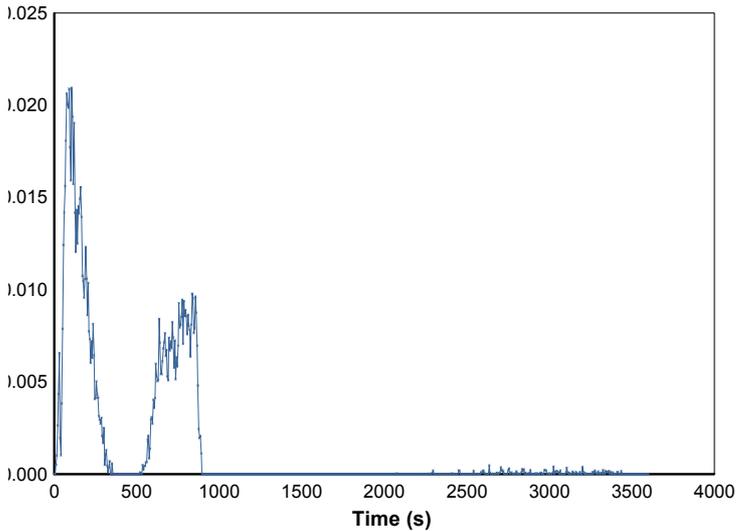
Heat release rate (kW/m²)



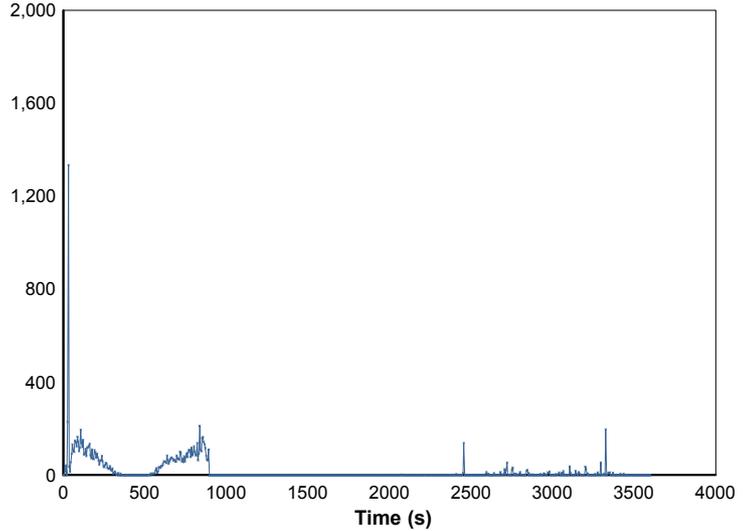
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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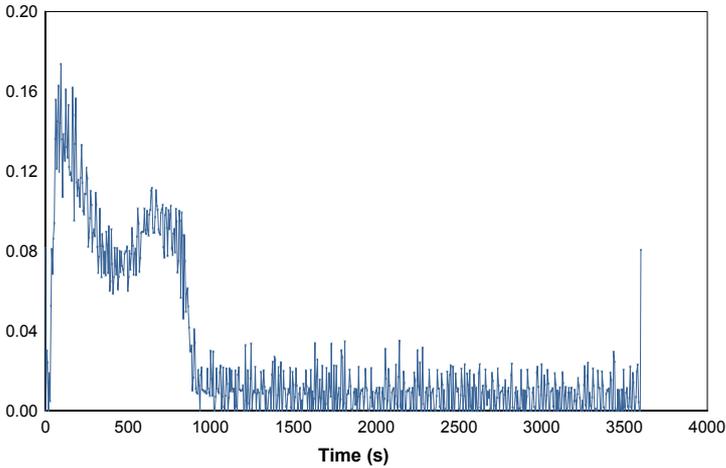
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P.O Box 240, North Melbourne, Victoria 3051
Phone (03) 9371 2400 Fax (03) 9371 2499

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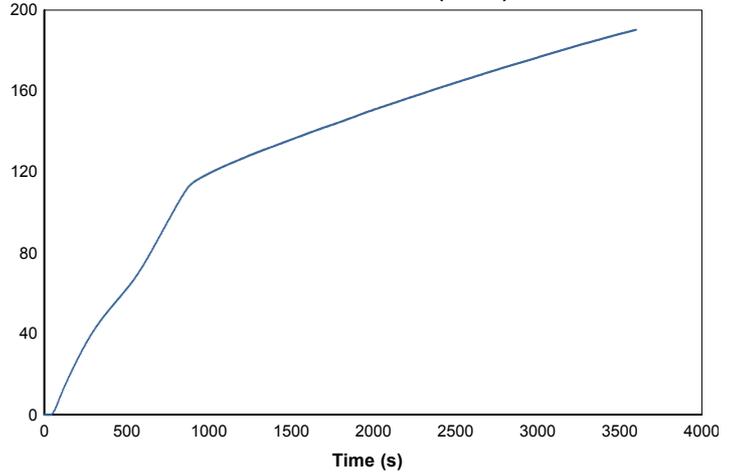
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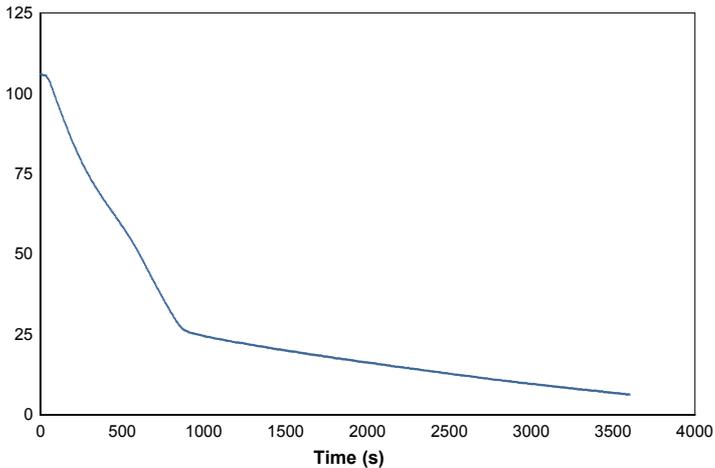
Mass loss rate (g/s)



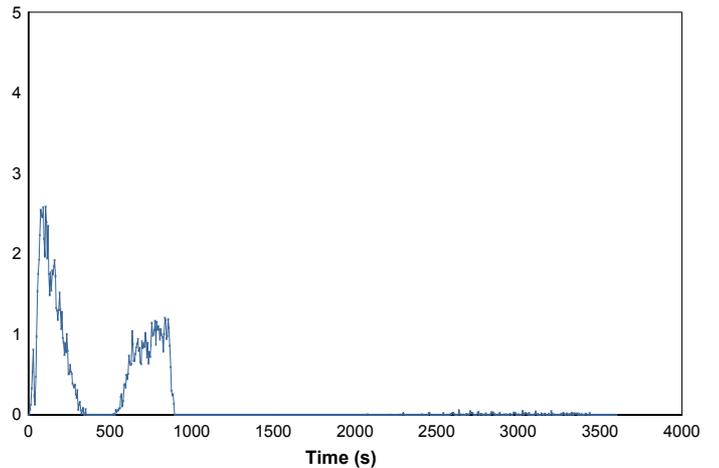
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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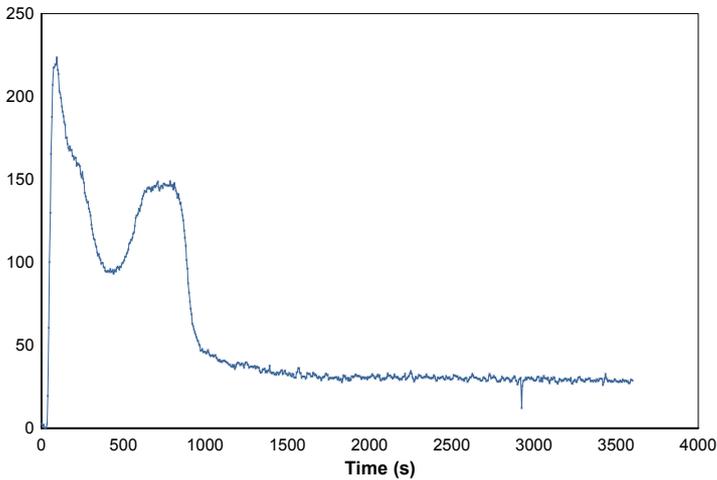
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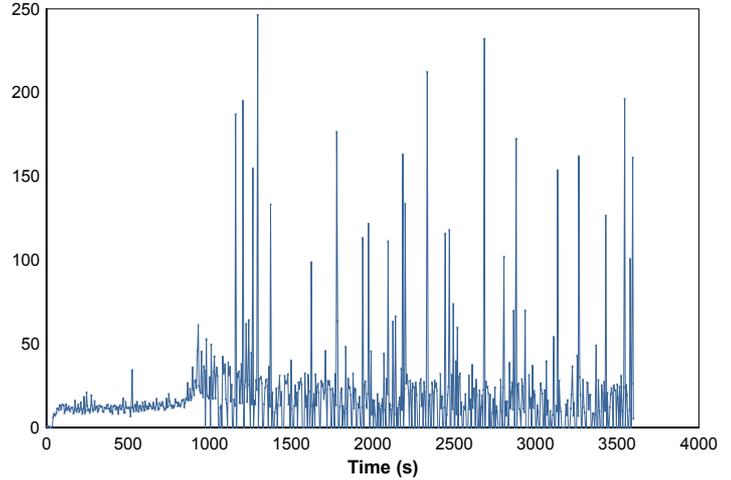
Test Number : 14-000494
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Specimen : 3

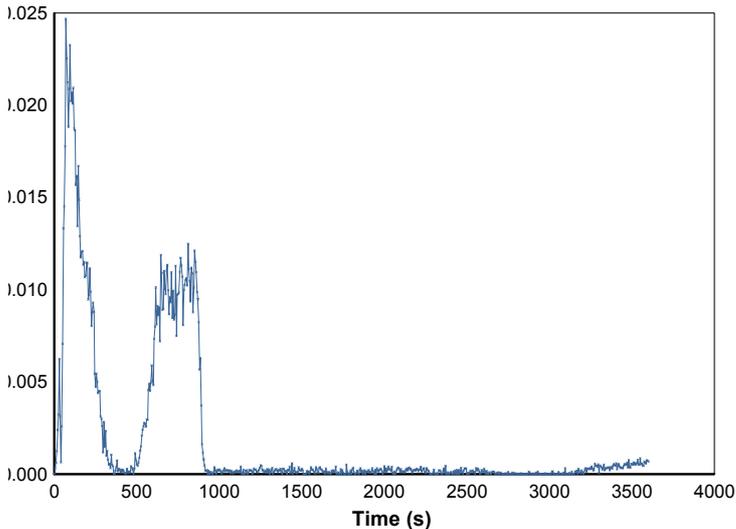
Heat release rate (kW/m²)



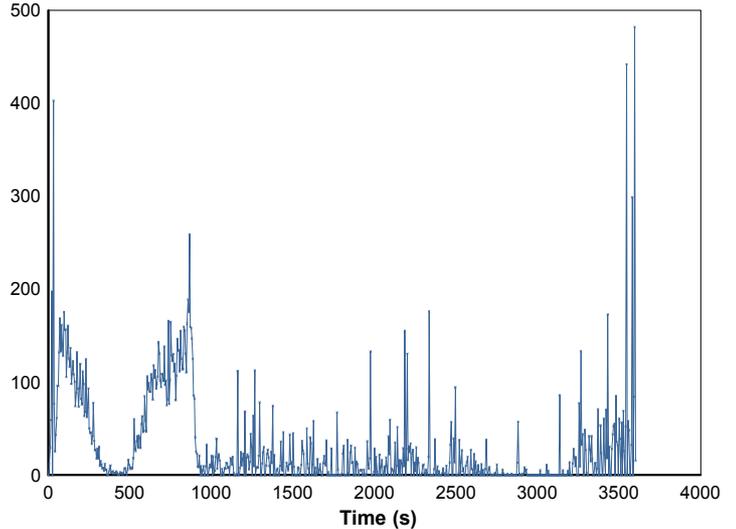
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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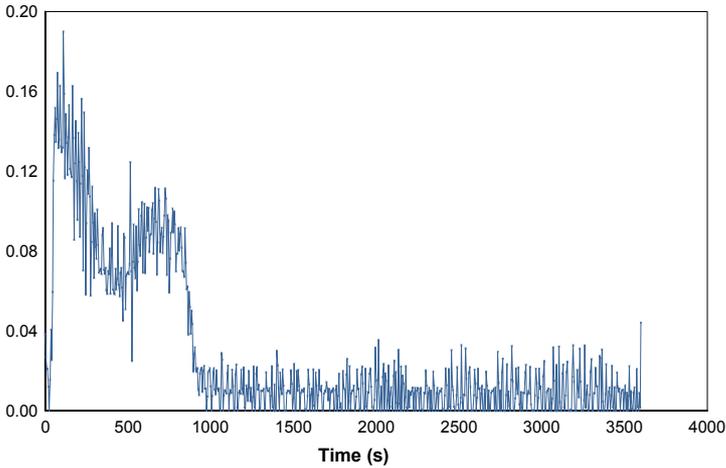
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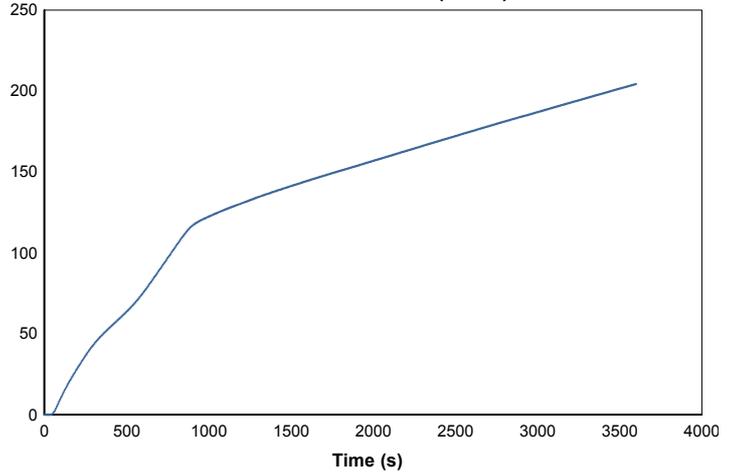
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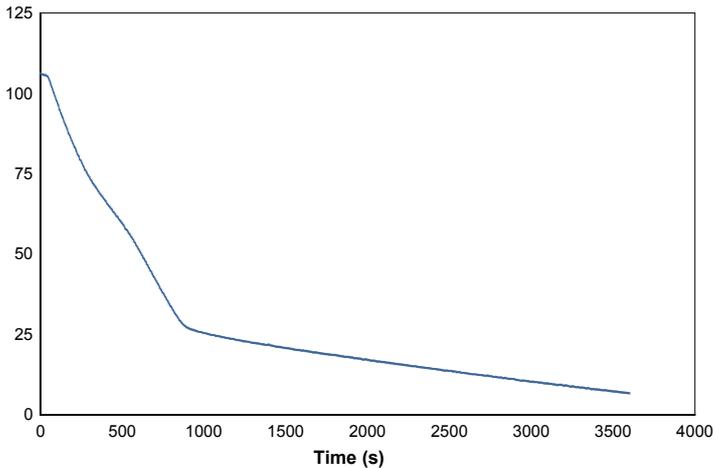
Mass loss rate (g/s)



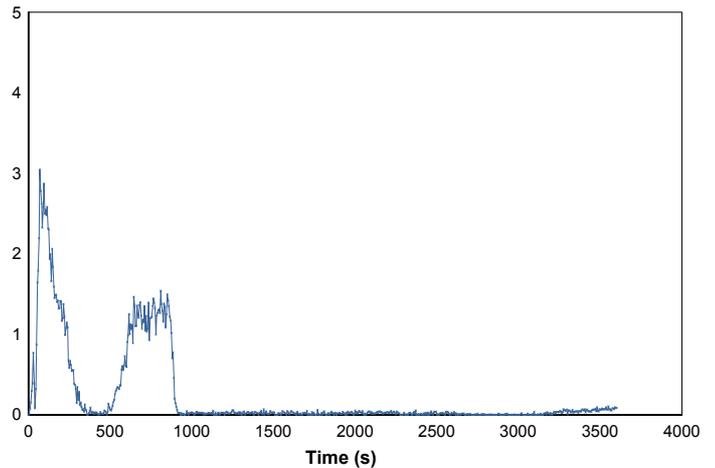
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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