

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 : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Sample Description

Clients Ref : "EVO by Bord Products on MR MDF"

Composite panel

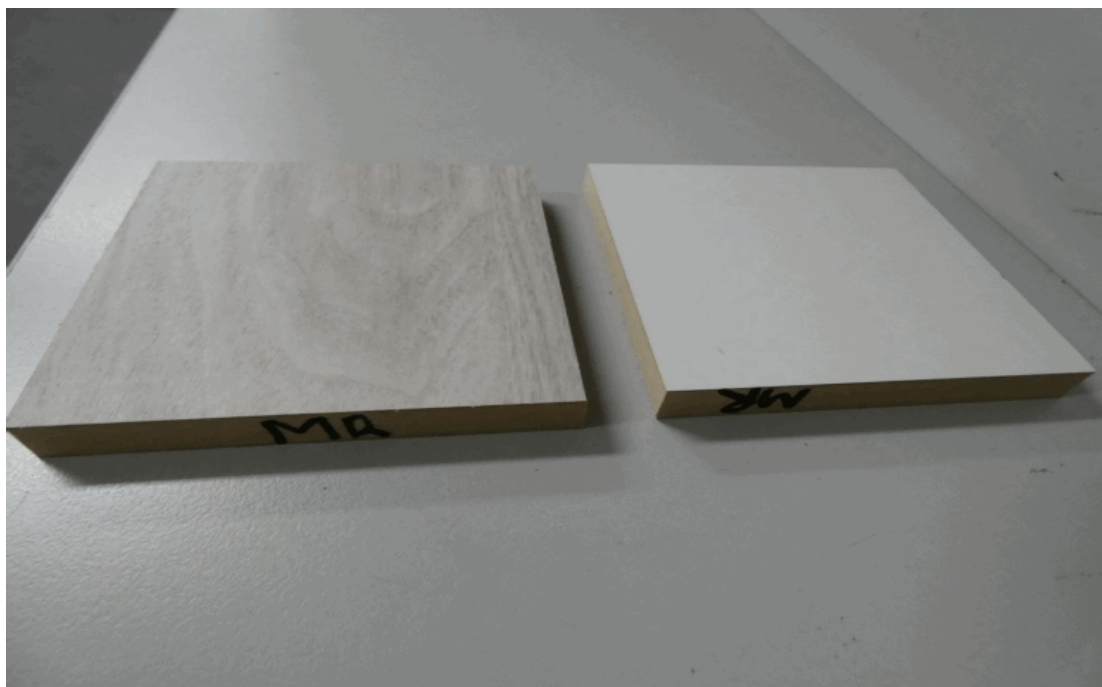
Sample A: Composite Panel

End Use : Interior Joinery, Wall Panelling, Furniture

Nominal Composition : Olefin film, MR MDF

Nominal Mass per Unit Area/Density : Approx: 9.50kg/m2

Nominal Thickness : Approx 12mm



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Page 1 of 36

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Fiona McDonald

APPROVED SIGNATORY



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

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TEST REPORT

Client : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 22-04-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	56.1	59.1	52.8	56.0	kW/m ²
Average Specific extinction area	61.0	43.5	60.9	55.1	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	44	31	39	38	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	352.2	346.8	325.9	341.6	kW/m ²
Average heat at 60 s	240.9	225.2	213.9	226.7	kW/m ²
Average heat at 180 s	191.5	183.7	185.5	186.9	kW/m ²
Average heat at 300 s	166.4	161.3	161.0	162.9	kW/m ²
Total heat released	199.3	210.6	188.0	199.3	MJ/m ²
Average effective heat of combustion	17.5	18.5	16.2	17.4	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	95.5	95.6	94.9	95.3	g
Mass remaining	2.8	3.1	0.9	2.3	g
Mass percentage pyrolysed	97.1	96.8	99.0	97.6	%

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Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Mass loss	11.4	11.4	11.6	11.5	kg/m ²
Average rate of mass loss	3.2	3.2	3.3	3.2	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Tests were conducted with a wire grid placed over the sample during testing.
This was done to contain intumescent sample within the sample holder.

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.

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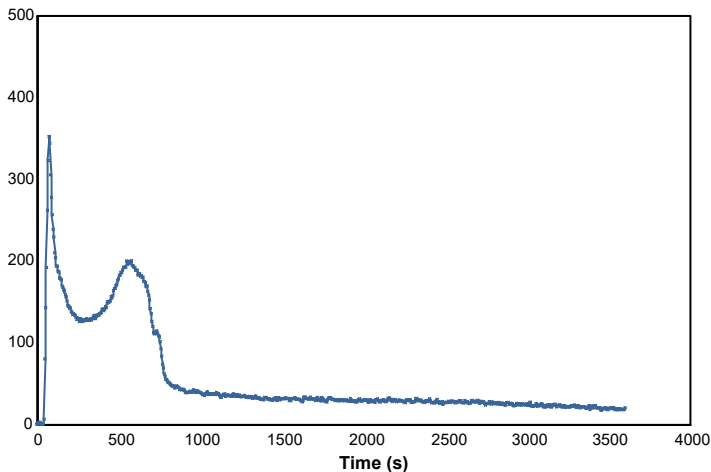
TEST REPORT

Client : Bord Products Pty Ltd
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Somerton VIC 3062

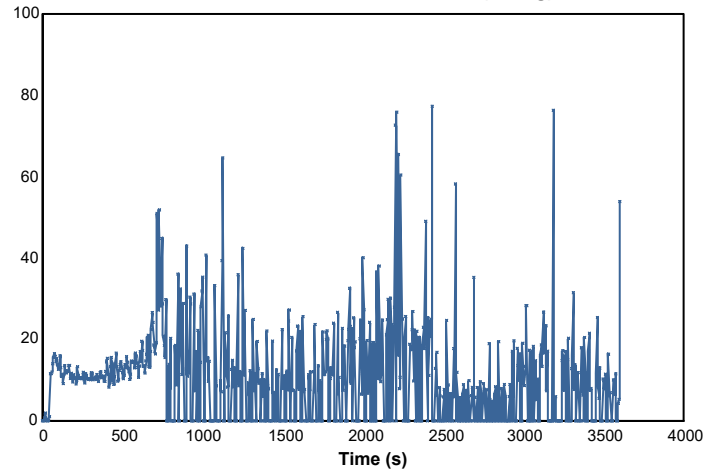
Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Specimen : 1

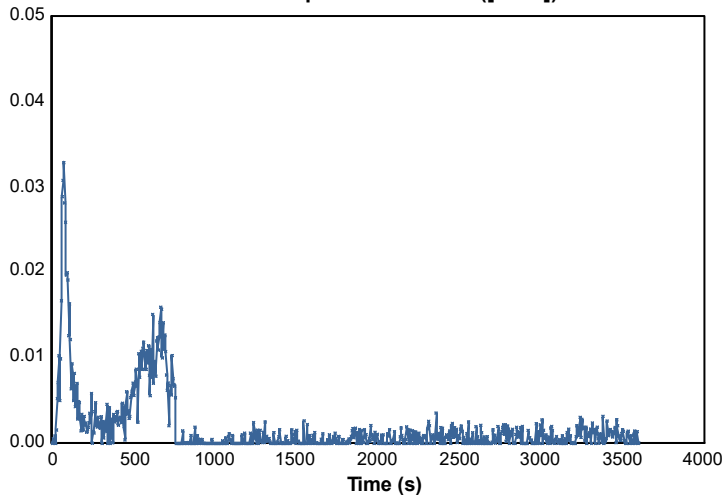
Heat release rate (kW/m²)



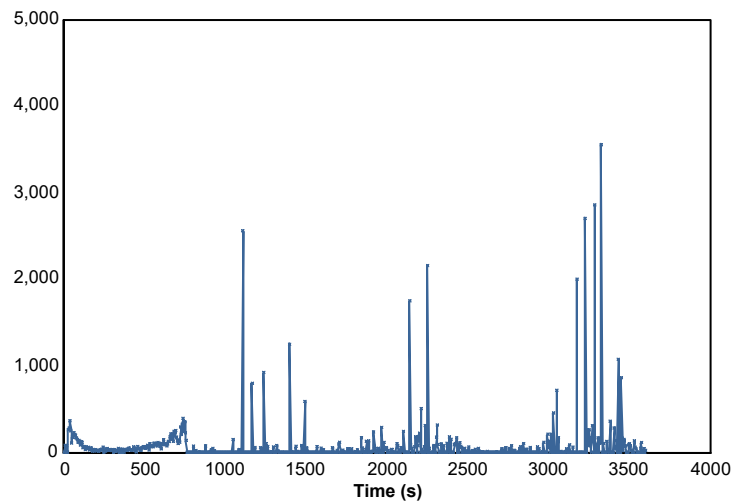
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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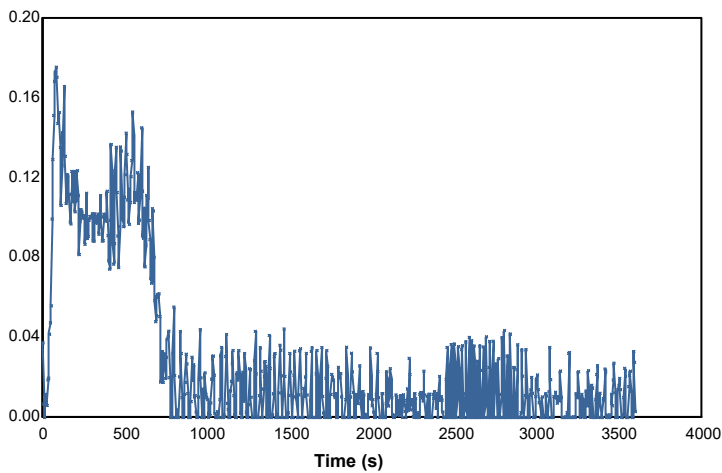
Phone (03) 9371 2400

TEST REPORT

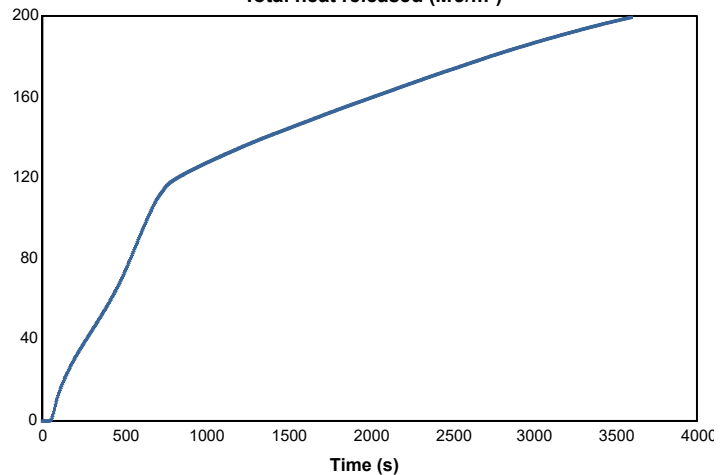
Client : Bord Products Pty Ltd
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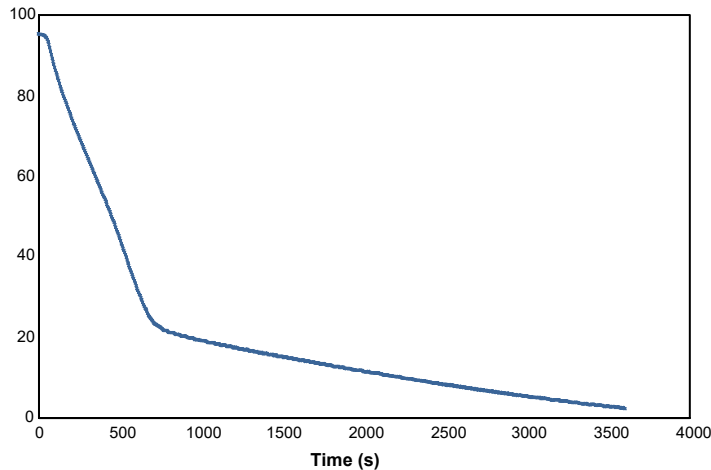
Mass loss rate (g/s)



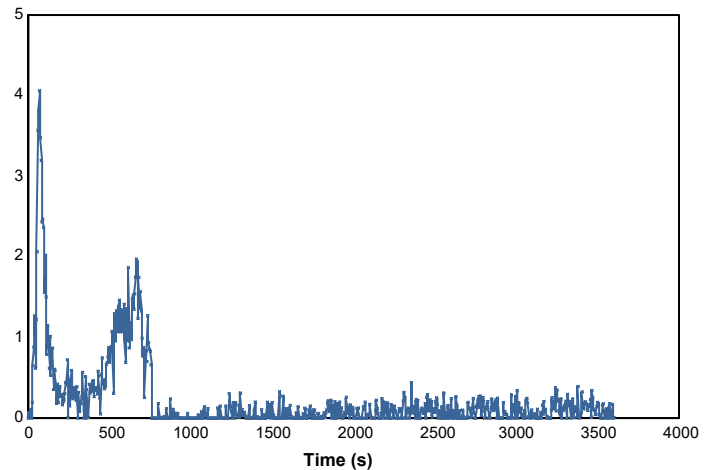
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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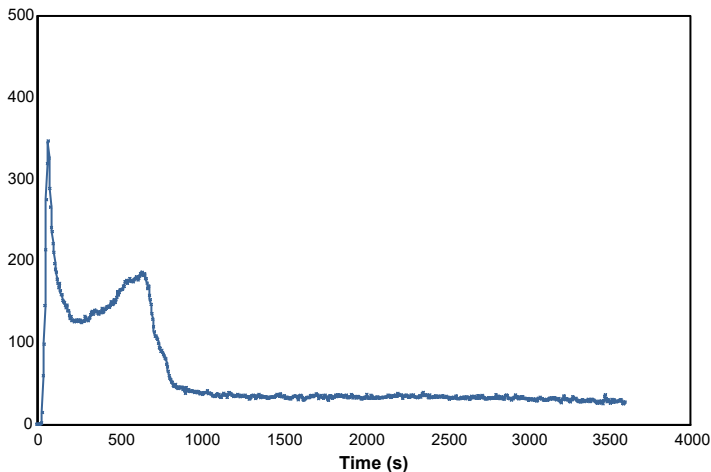
TEST REPORT

Client : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

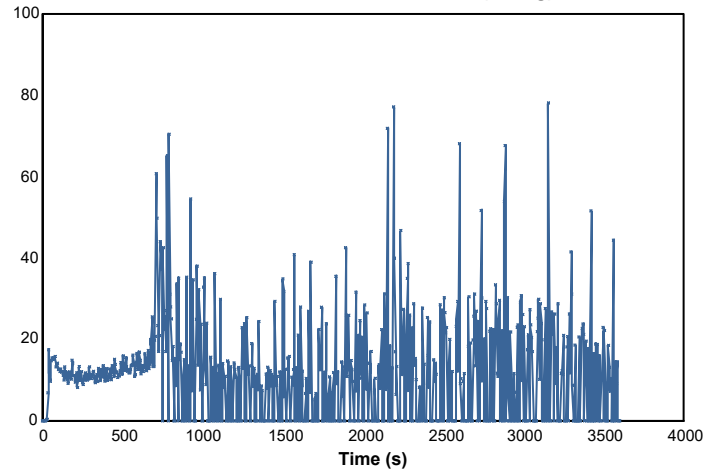
Test Number : 25-001243
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Print Date : 22/04/2025

Specimen : 2

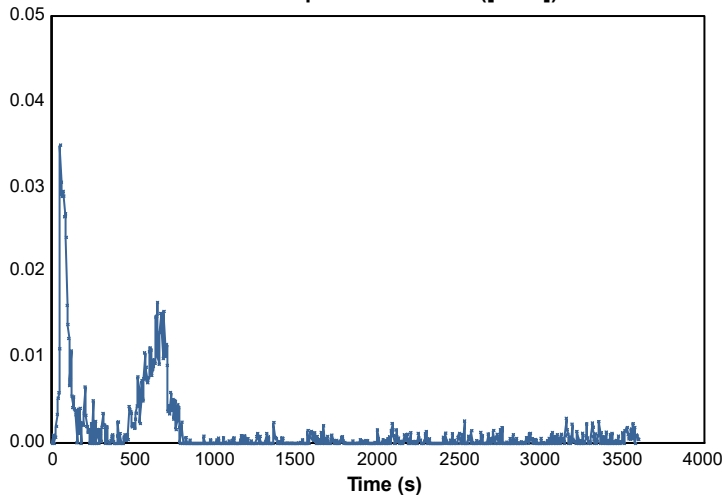
Heat release rate (kW/m²)



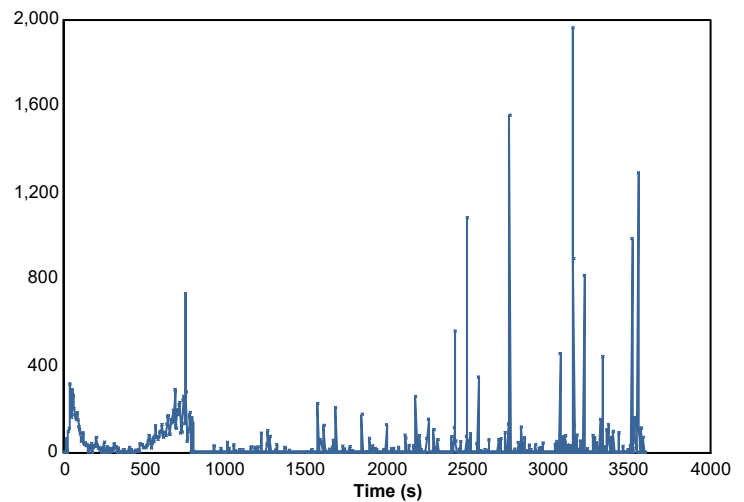
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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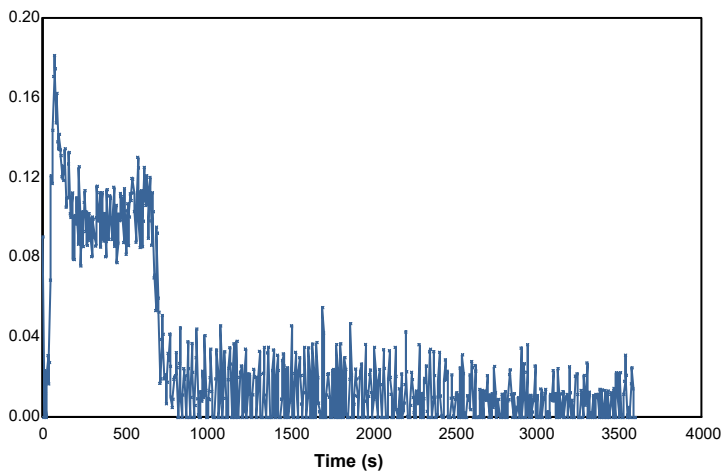
Phone (03) 9371 2400

TEST REPORT

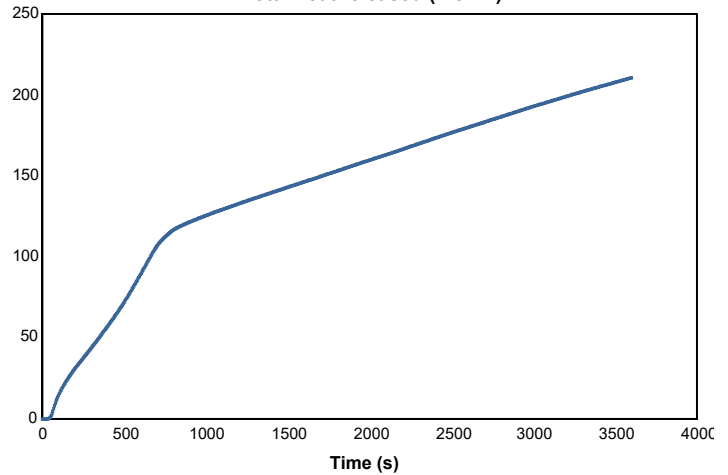
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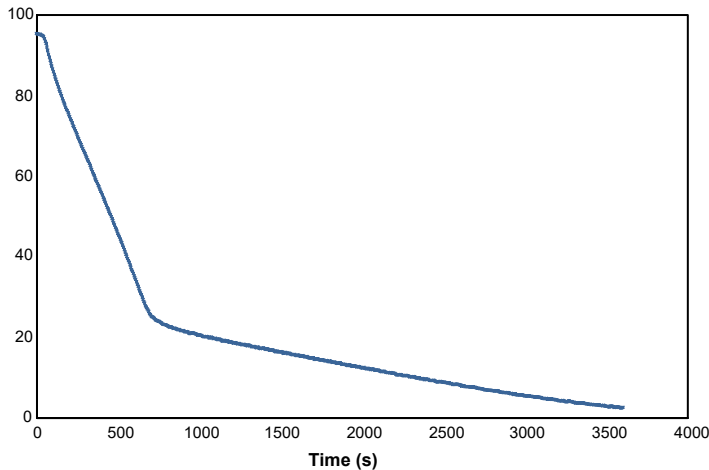
Mass loss rate (g/s)



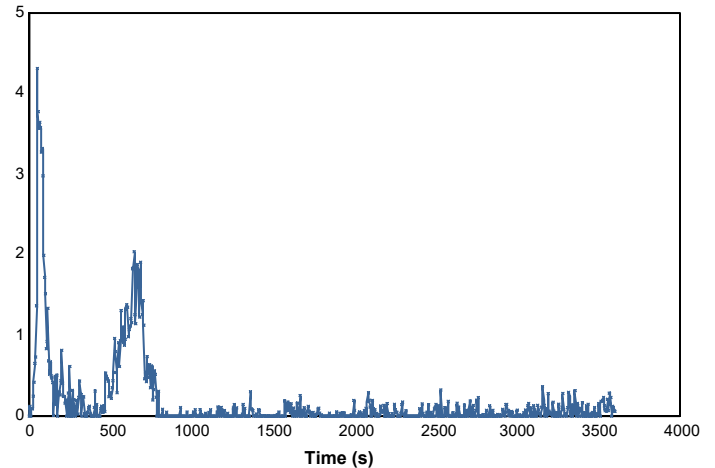
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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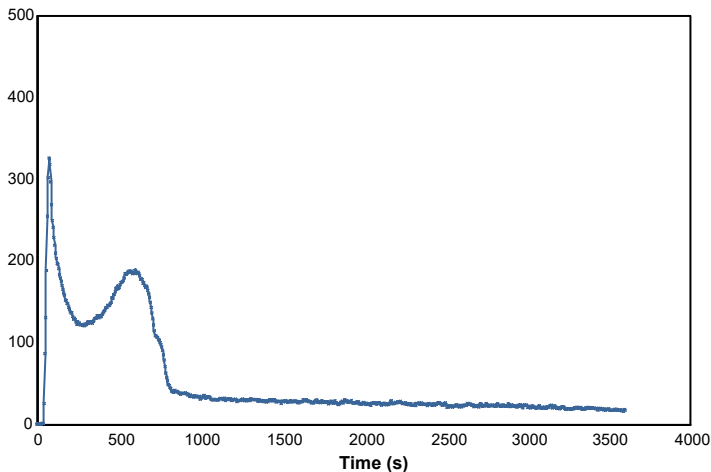
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52-58 Fillo Drive
Somerton VIC 3062

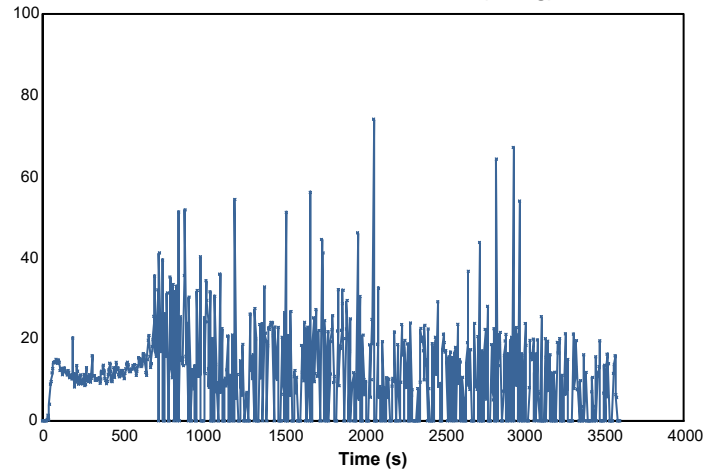
Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Specimen : 3

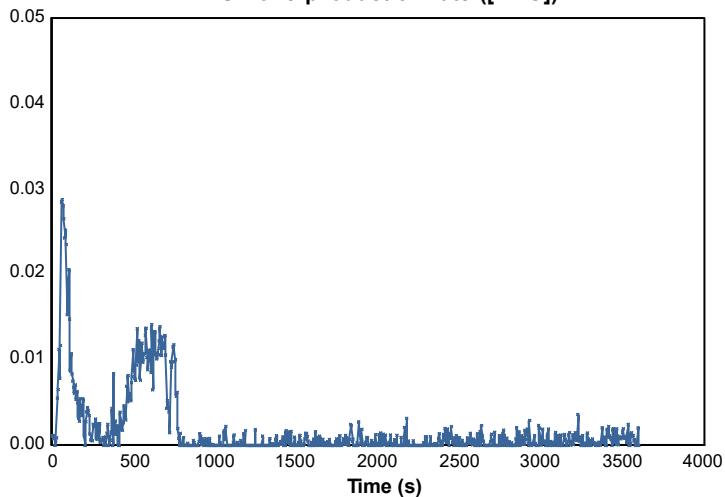
Heat release rate (kW/m²)



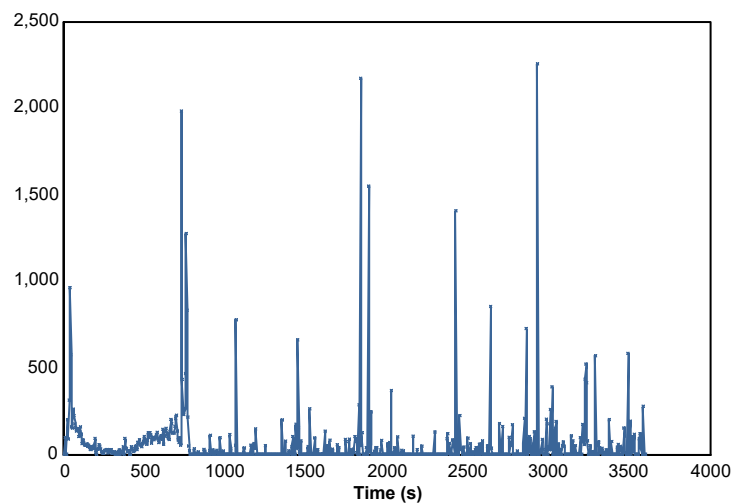
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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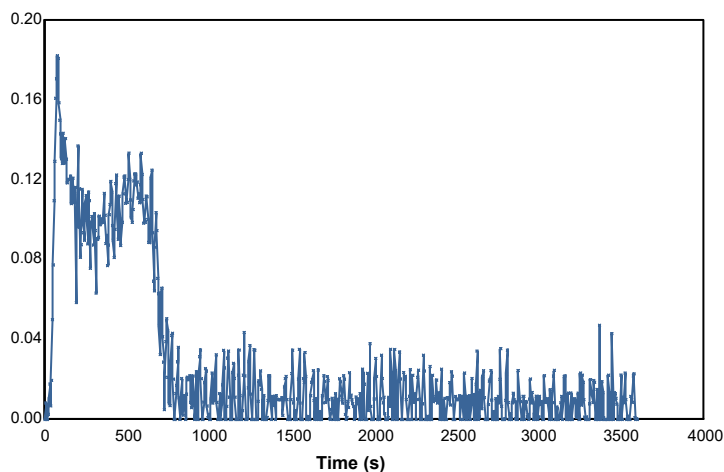
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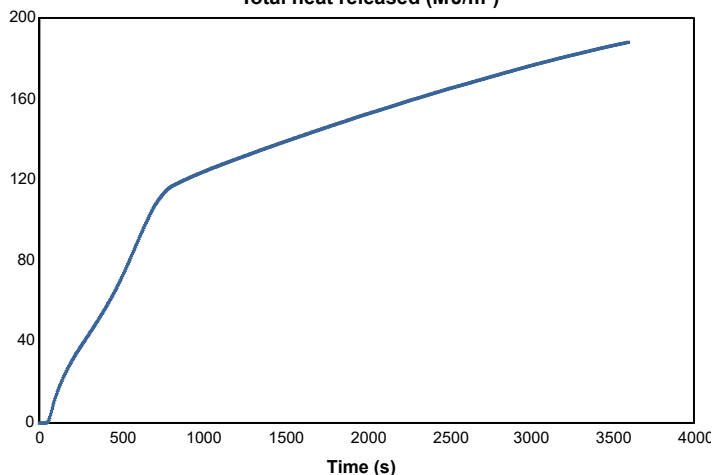
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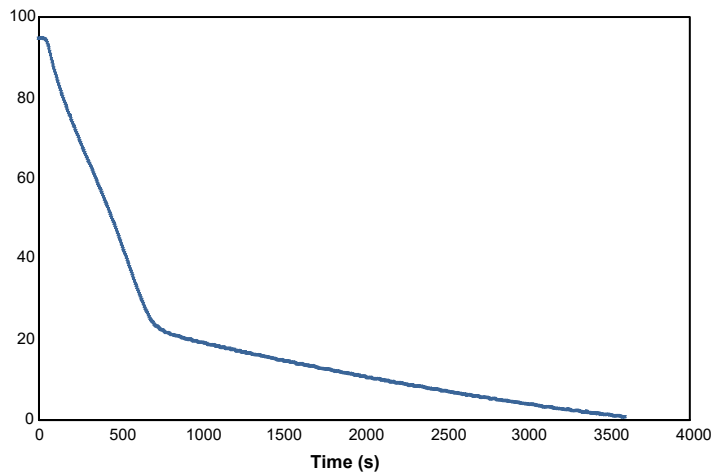
Mass loss rate (g/s)



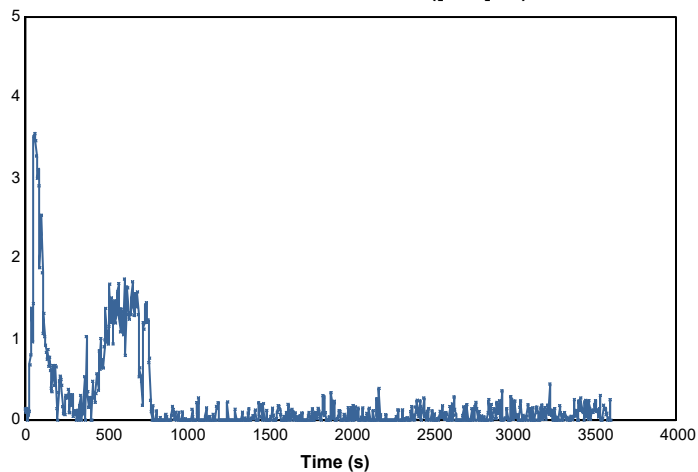
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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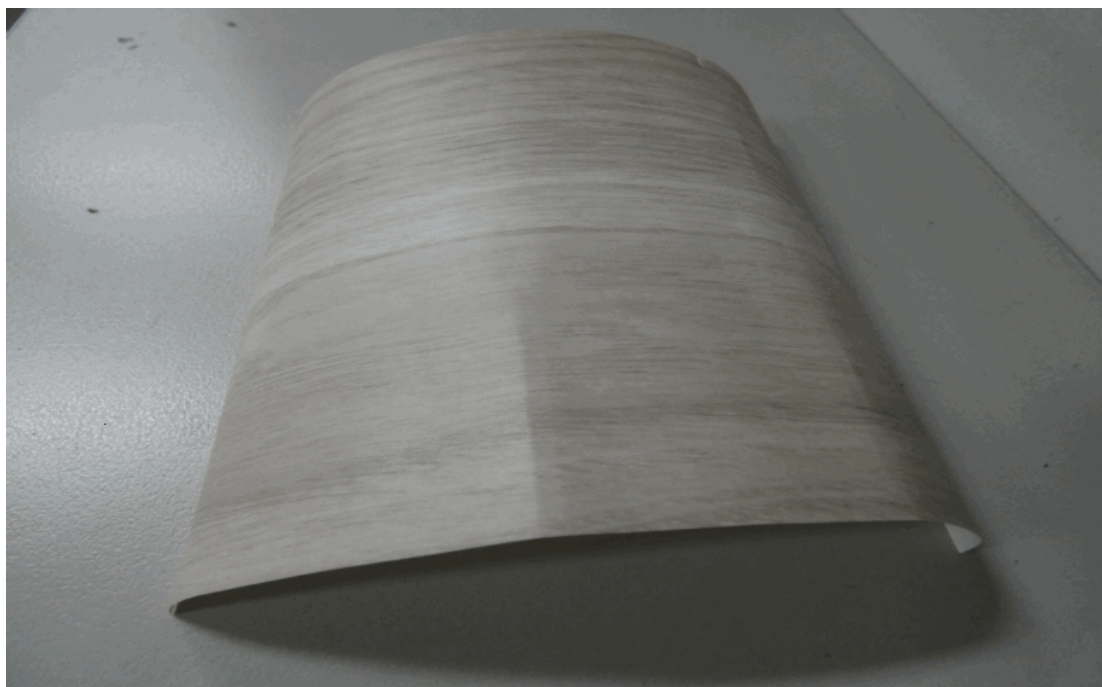
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Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Sample Description

Clients Ref : "EVO by Bord Products on MR MDF"
Composite panel
Sample B: Timber look film
End Use : Interior Joinery, Wall Panelling, Furniture
Nominal Composition : Olefin
Nominal Mass per Unit Area/Density : Approx: 380g/m2
Nominal Thickness : Approx 0.2mm



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Page 10 of 36

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AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 17-04-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	33.8	36.0	37.4	35.7	kW/m ²
Average Specific extinction area	7.1	8.3	13.3	9.6	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	49	79	62	63	sec
Test duration	304	313	296	304	sec
Peak heat release after ignition	67.3	73.9	81.4	74.2	kW/m ²
Average heat at 60 s	54.2	58.3	60.8	57.8	kW/m ²
Average heat at 180 s	41.3	41.2	43.4	41.9	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	8.5	8.4	8.7	8.6	MJ/m ²
Average effective heat of combustion	7.0	7.9	7.6	7.5	MJ/kg
Initial thickness	6.2	6.2	6.2	6.2	mm
Initial mass	86.1	86.8	87.2	86.7	g
Mass remaining	76.0	77.8	77.7	77.2	g
Mass percentage pyrolysed	11.7	10.4	10.9	11.0	%

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Page 11 of 36

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Mass loss	1.2	1.1	1.2	1.2	kg/m ²
Average rate of mass loss	4.8	4.6	4.9	4.8	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Retainer grid was used to contain the test specimen within the sample holder

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.

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P.O Box 240, North Melbourne, Victoria 3051

Phone (03) 9371 2400

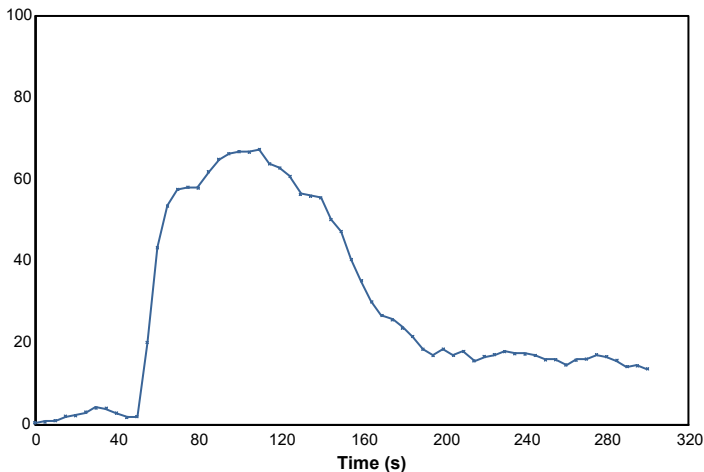
TEST REPORT

Client : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

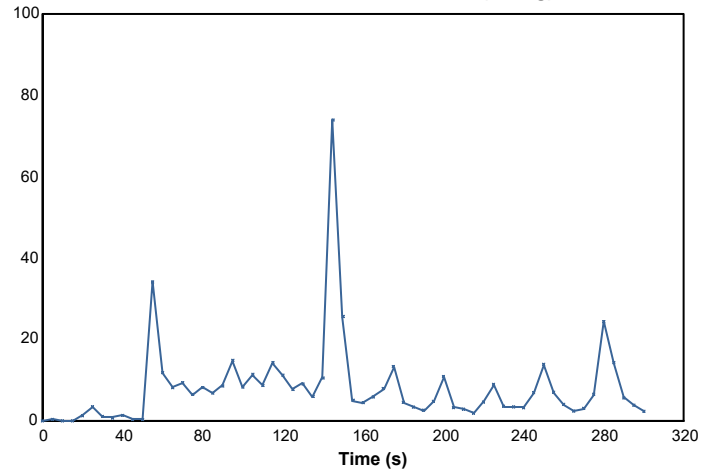
Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Specimen : 1

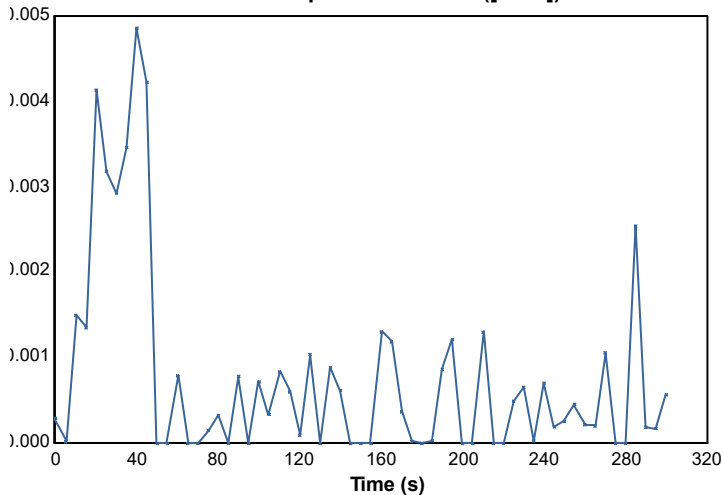
Heat release rate (kW/m²)



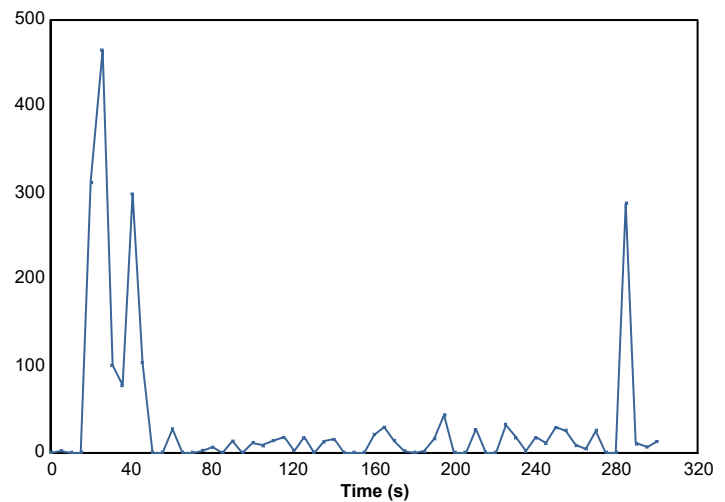
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



222727

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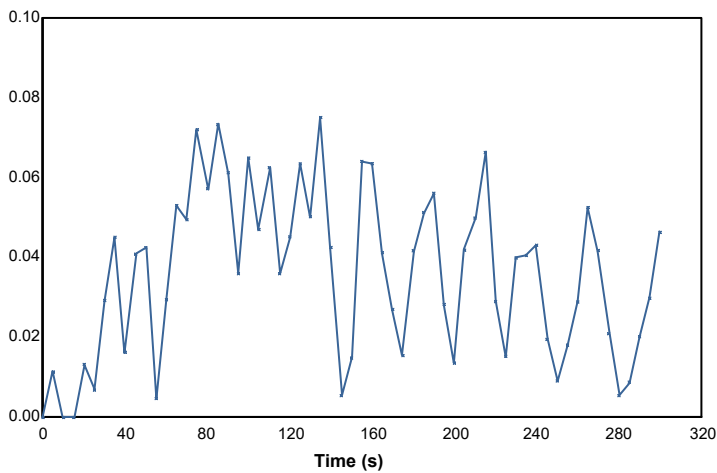
Phone (03) 9371 2400

TEST REPORT

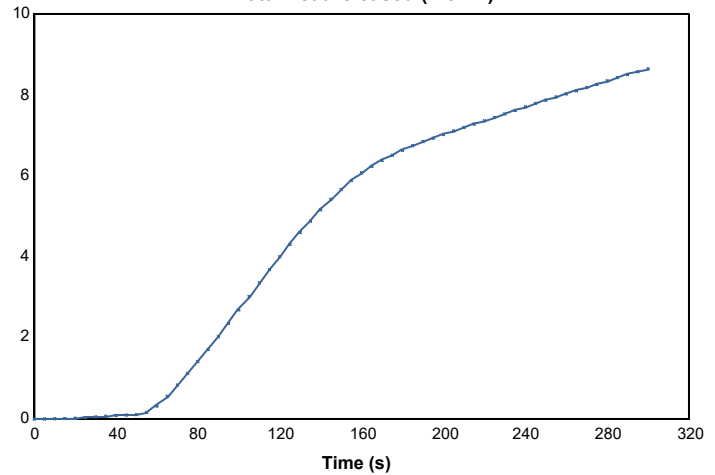
Client : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

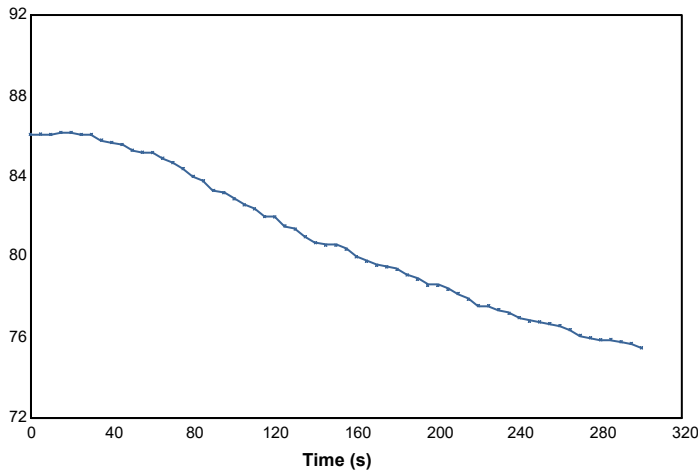
Mass loss rate (g/s)



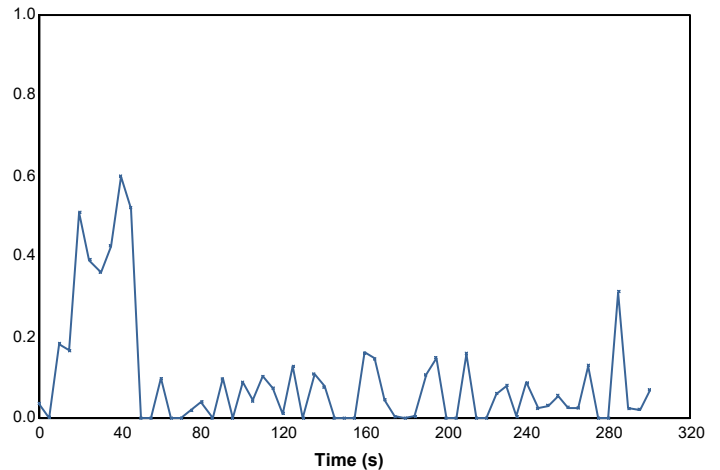
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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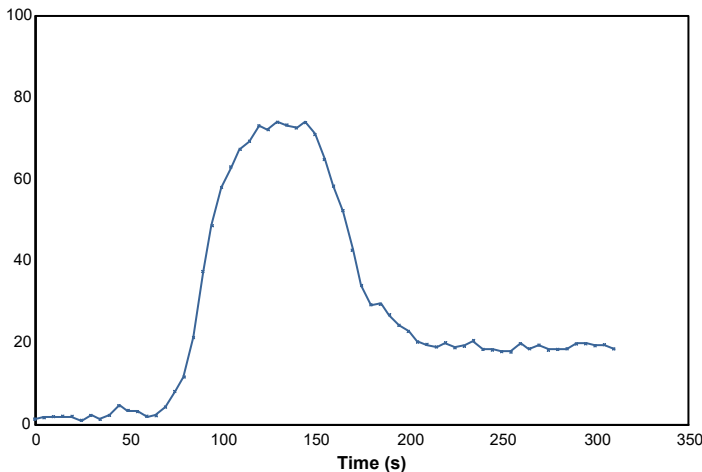
TEST REPORT

Client : Bord Products Pty Ltd
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Somerton VIC 3062

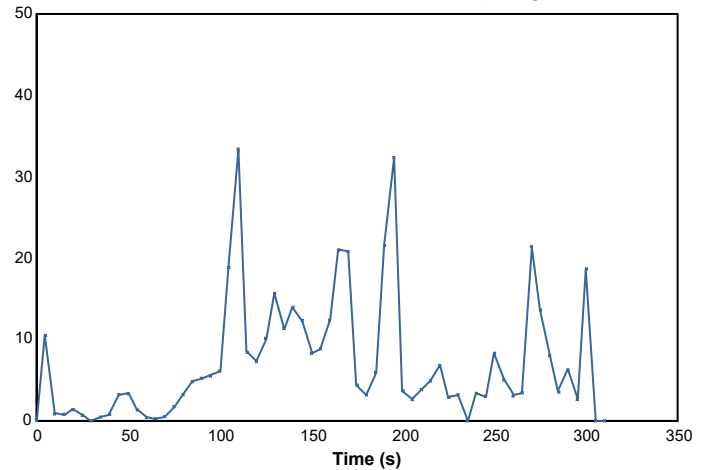
Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Specimen : 2

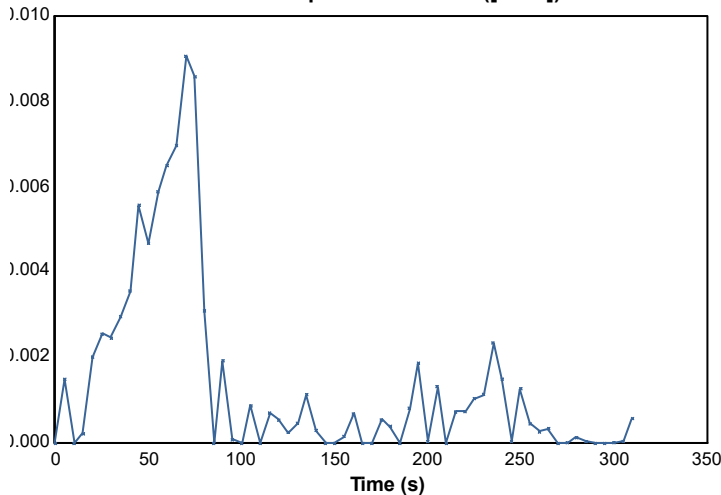
Heat release rate (kW/m²)



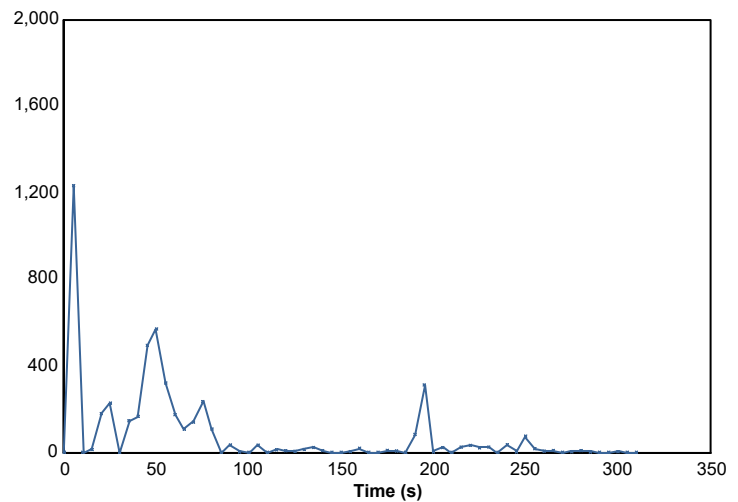
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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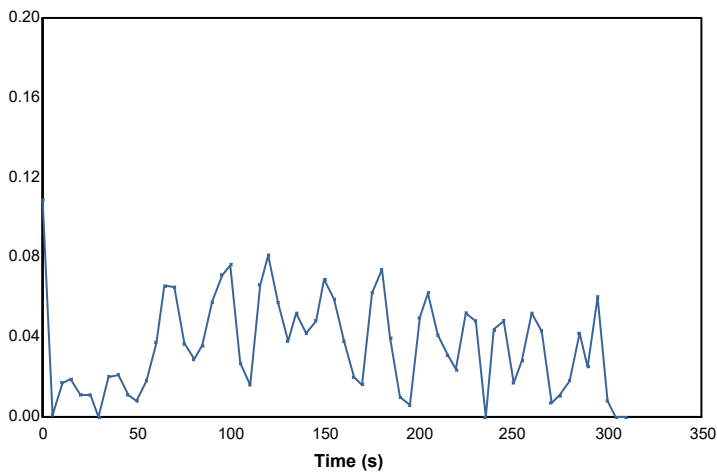
Phone (03) 9371 2400

TEST REPORT

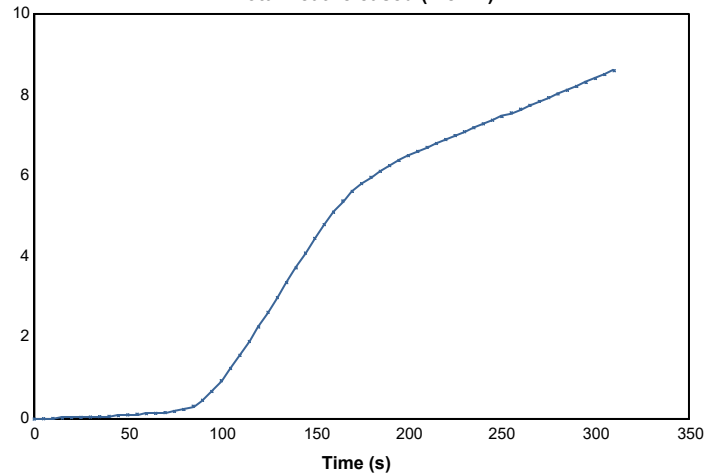
Client : Bord Products Pty Ltd
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Somerton VIC 3062

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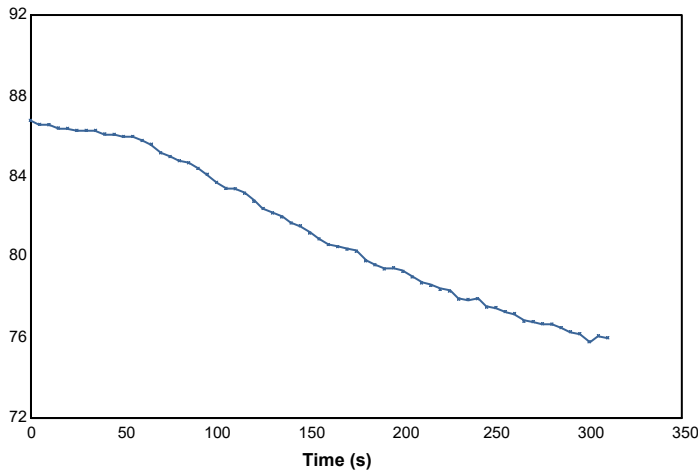
Mass loss rate (g/s)



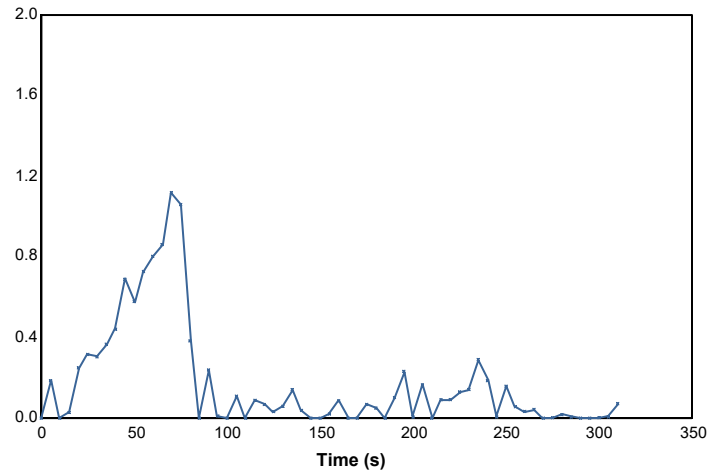
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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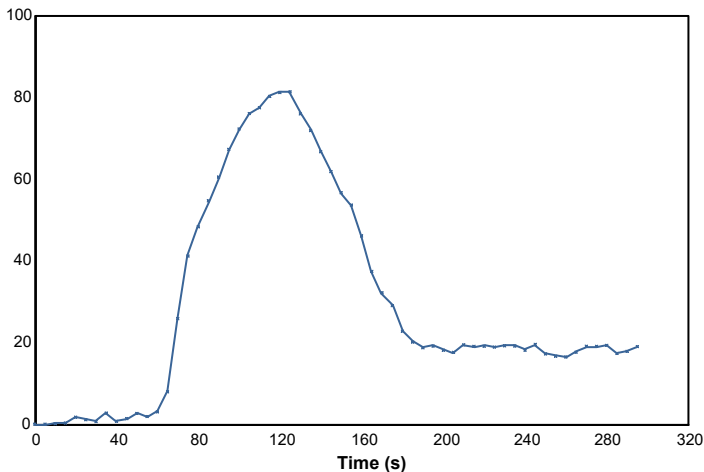
TEST REPORT

Client : Bord Products Pty Ltd
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Somerton VIC 3062

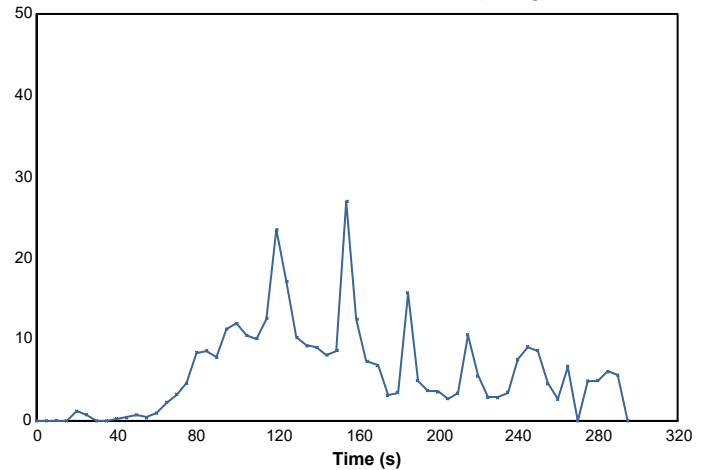
Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Specimen : 3

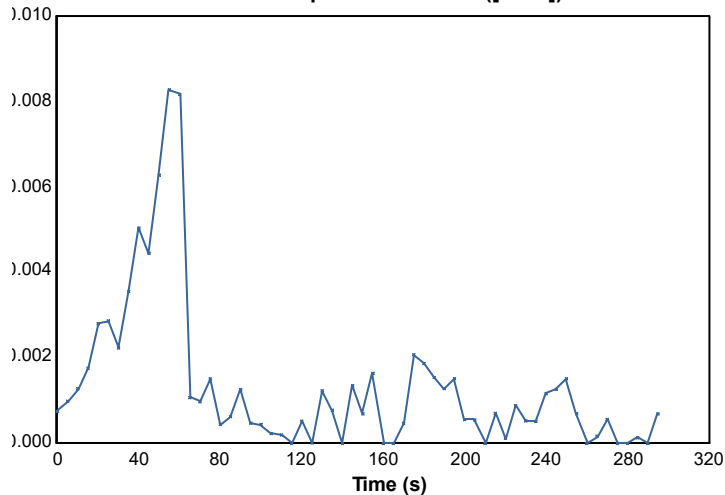
Heat release rate (kW/m²)



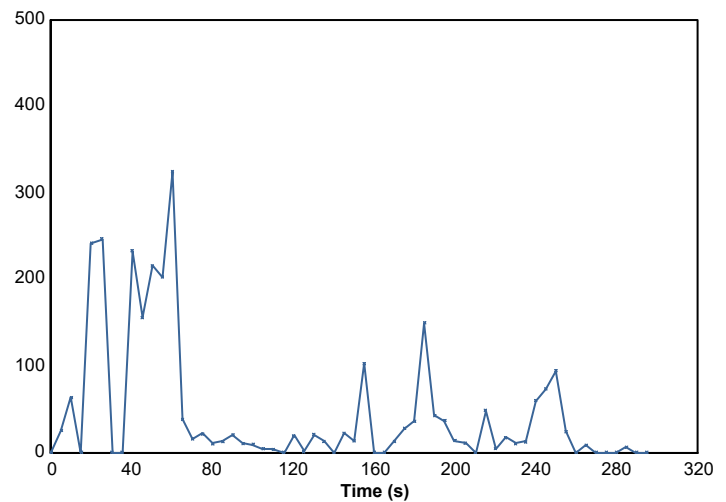
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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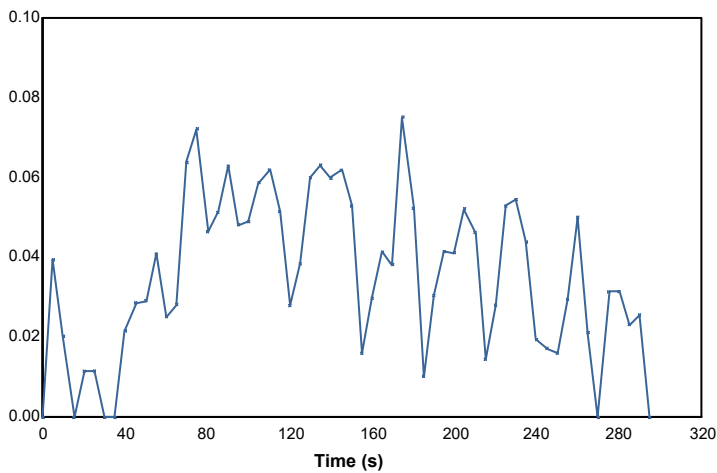
Phone (03) 9371 2400

TEST REPORT

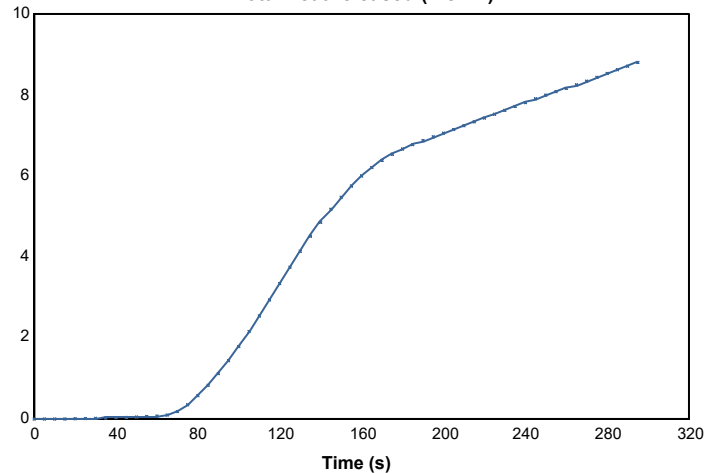
Client : Bord Products Pty Ltd
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Test Number : 25-001243
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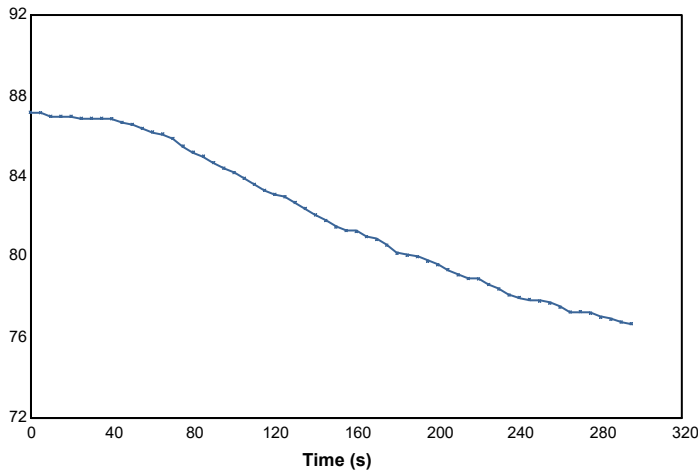
Mass loss rate (g/s)



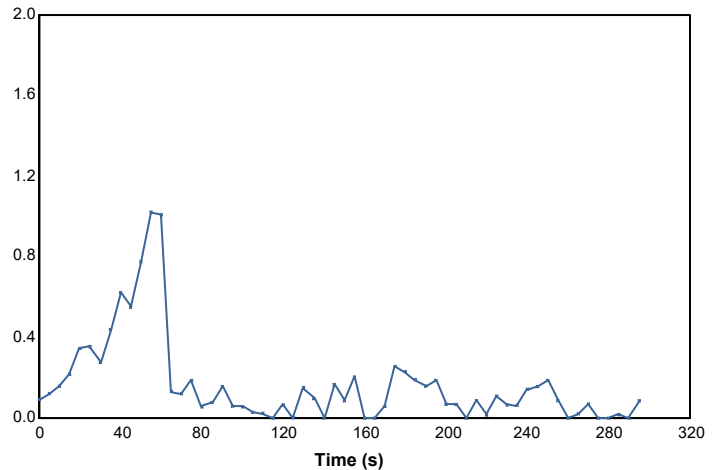
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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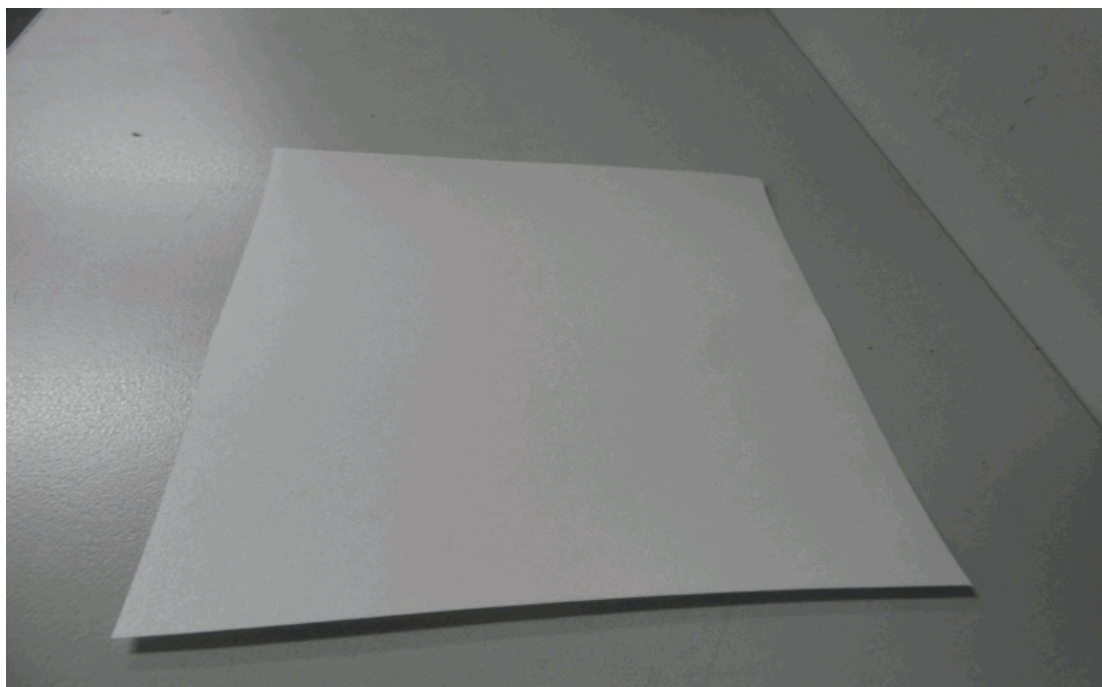
TEST REPORT

Client : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

Sample Description

Clients Ref : "EVO by Bord Products on MR MDF"
Composite panel
Sample C: White film
End Use : Interior Joinery, Wall Panelling, Furniture
Nominal Composition : Olefin
Nominal Mass per Unit Area/Density : Approx: 380g/m2
Nominal Thickness : Approx 0.2mm



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TEST REPORT

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52-58 Fillo Drive
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Test Number : 25-001243
Issue Date : 22/04/2025
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AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 17-04-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	28.1	33.2	34.4	31.9	kW/m ²
Average Specific extinction area	0.0	19.1	0.0	6.4	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	58	68	58	61	sec
Test duration	310	309	301	307	sec
Peak heat release after ignition	74.0	80.8	88.8	81.2	kW/m ²
Average heat at 60 s	52.3	61.4	60.3	58.0	kW/m ²
Average heat at 180 s	37.4	41.2	43.2	40.6	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	7.0	7.9	8.4	7.8	MJ/m ²
Average effective heat of combustion	6.1	7.0	7.1	6.8	MJ/kg
Initial thickness	6.2	6.2	6.2	6.2	mm
Initial mass	83.1	83.9	82	83.0	g
Mass remaining	73.5	74.5	72.3	73.4	g
Mass percentage pyrolysed	11.6	11.2	11.9	11.5	%

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Mass loss	1.2	1.2	1.2	1.2	kg/m ²
Average rate of mass loss	4.6	4.7	4.8	4.7	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Retainer grid was used to contain the test specimen within the sample holder

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.

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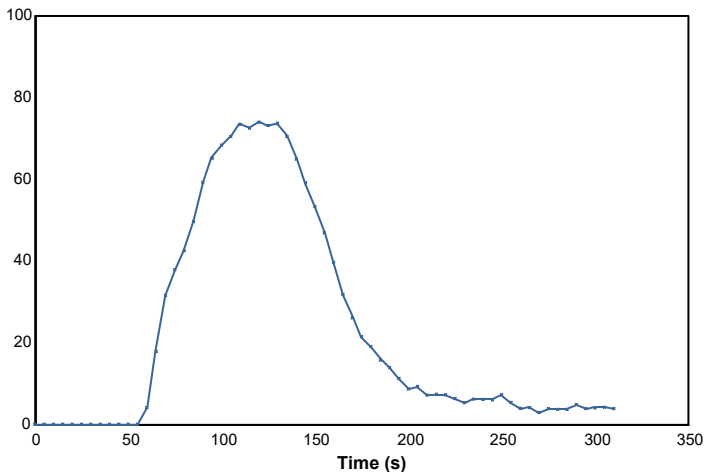
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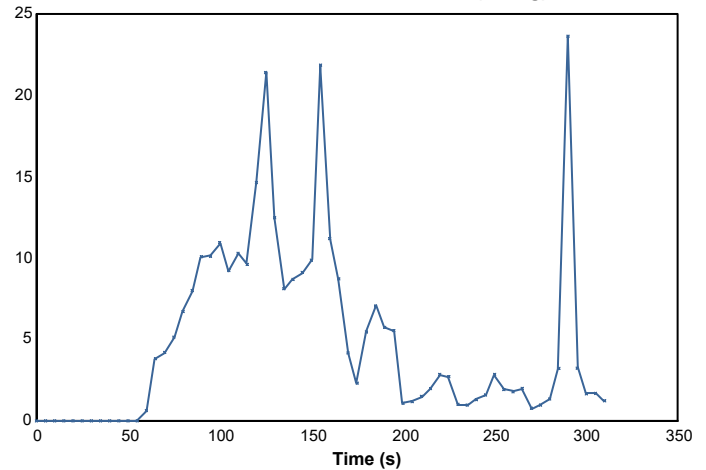
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Specimen : 1

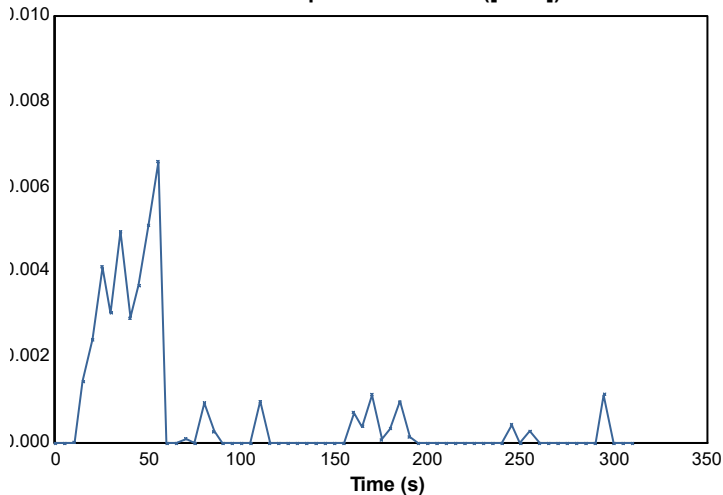
Heat release rate (kW/m²)



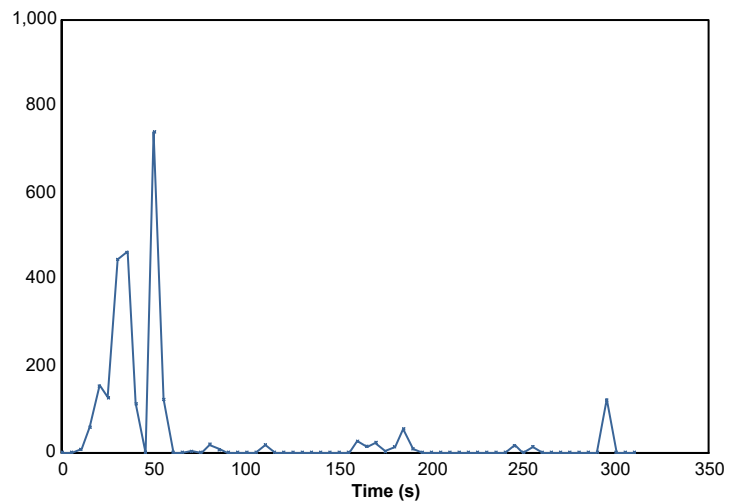
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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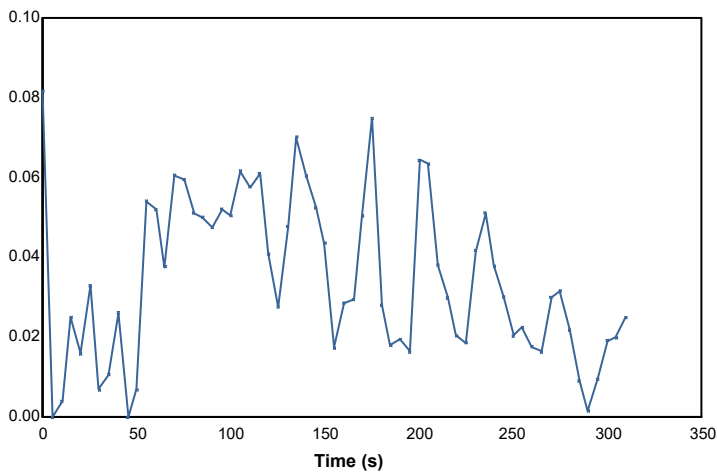
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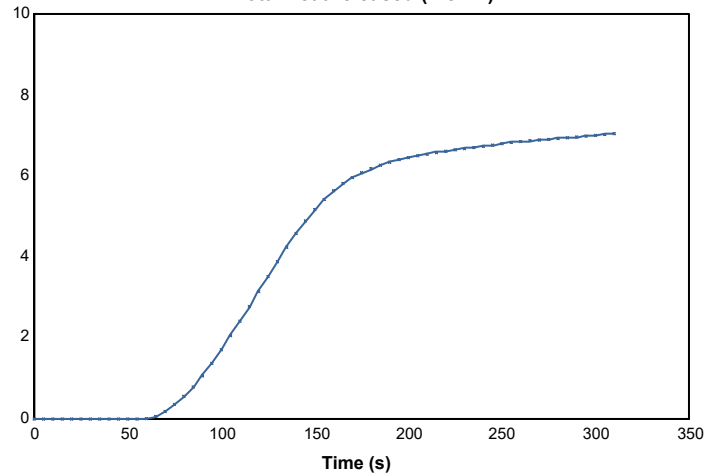
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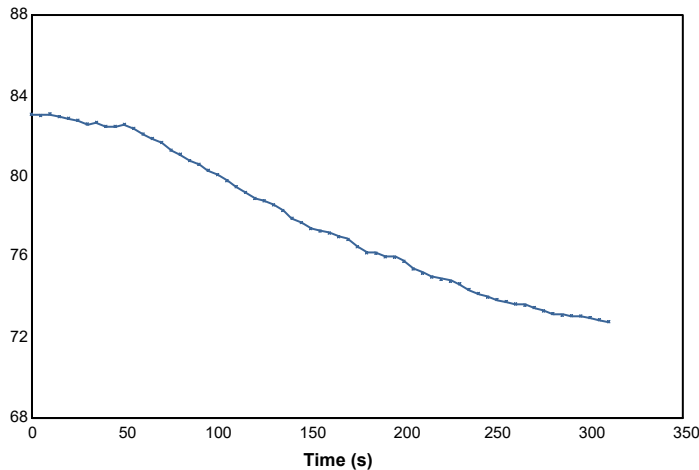
Mass loss rate (g/s)



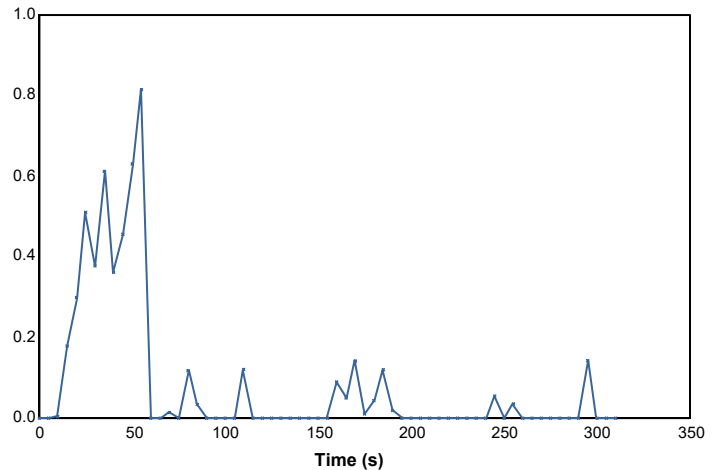
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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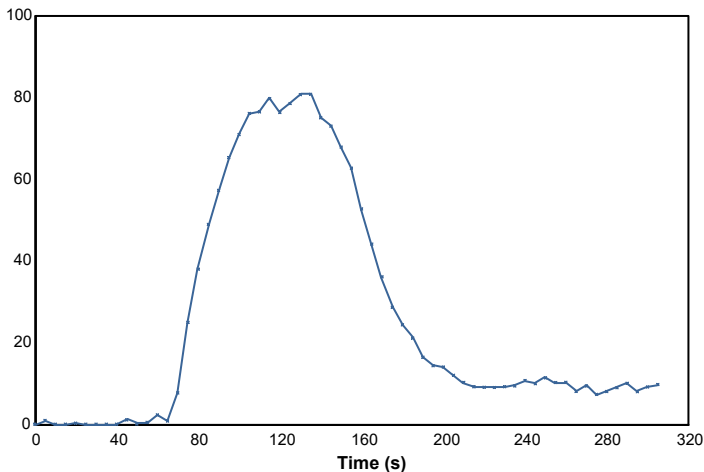
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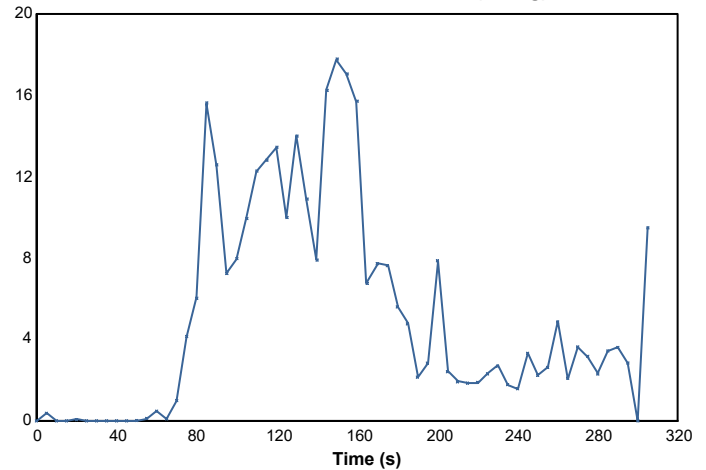
Test Number : 25-001243
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Specimen : 2

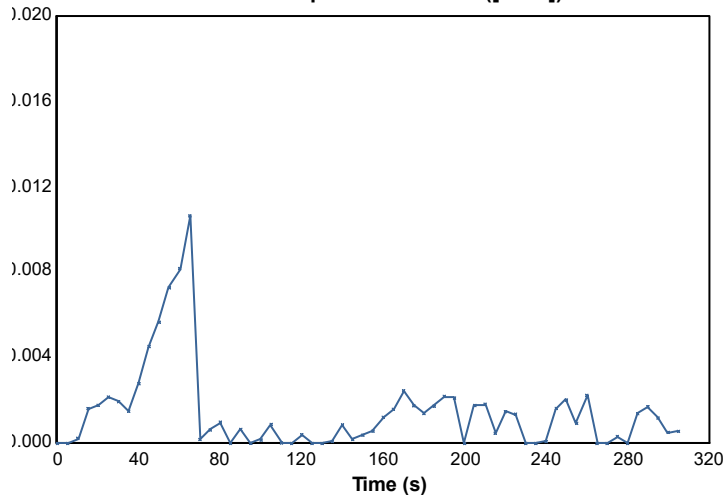
Heat release rate (kW/m²)



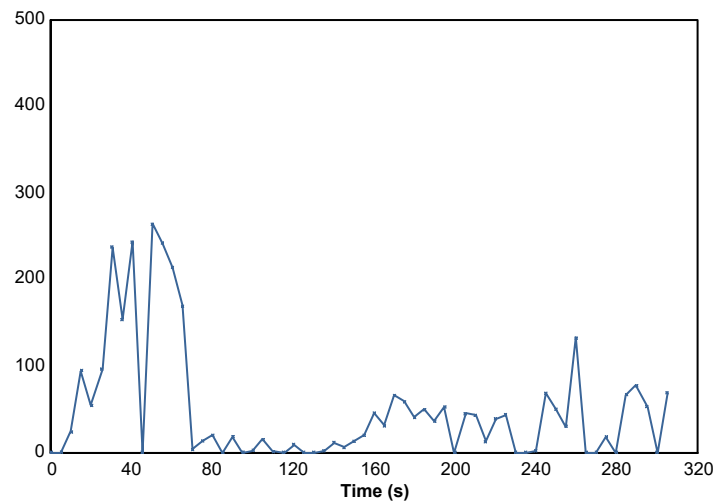
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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Fiona McDonald

APPROVED SIGNATORY



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

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

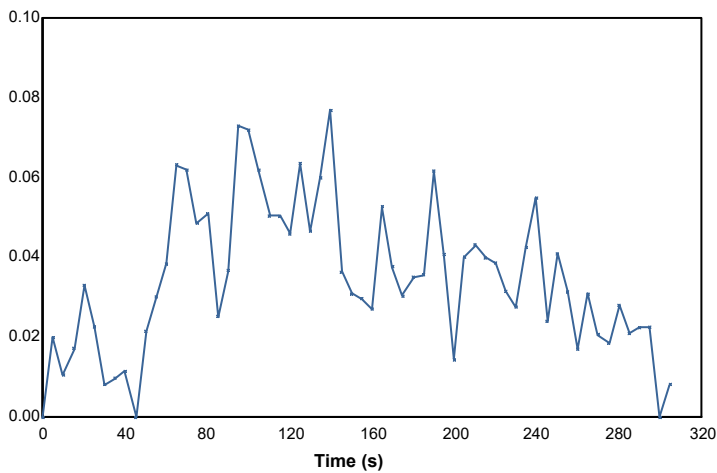
Phone (03) 9371 2400

TEST REPORT

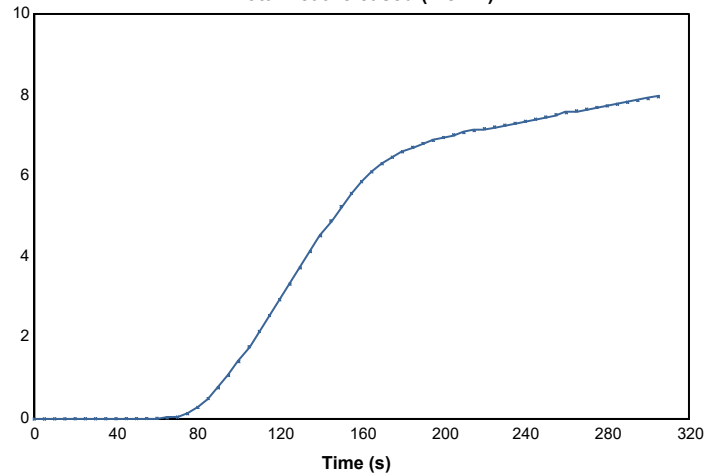
Client : Bord Products Pty Ltd
52-58 Fillo Drive
Somerton VIC 3062

Test Number : 25-001243
Issue Date : 22/04/2025
Print Date : 22/04/2025

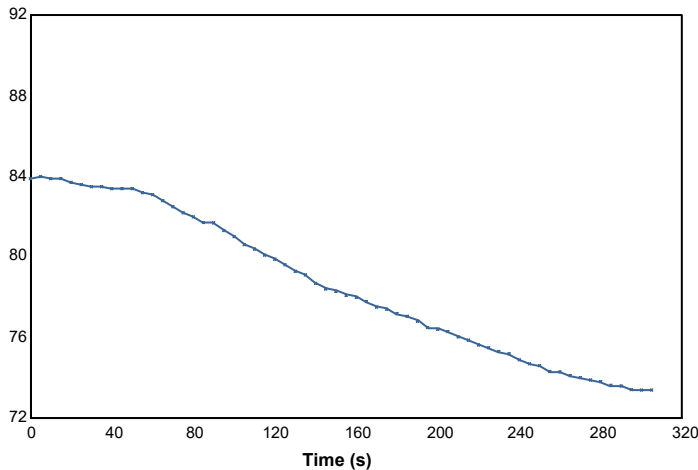
Mass loss rate (g/s)



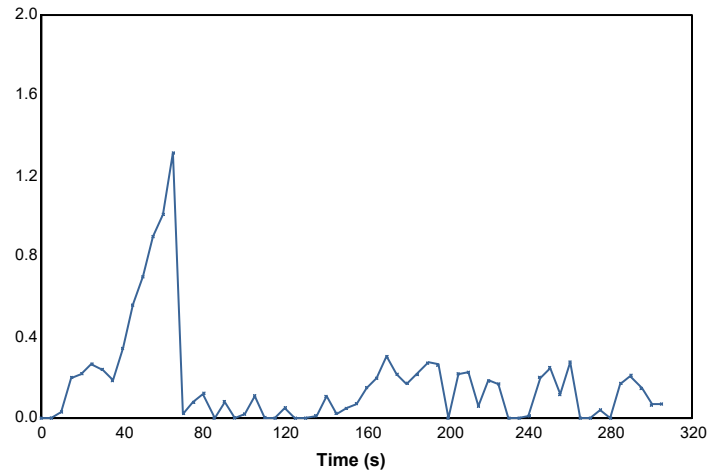
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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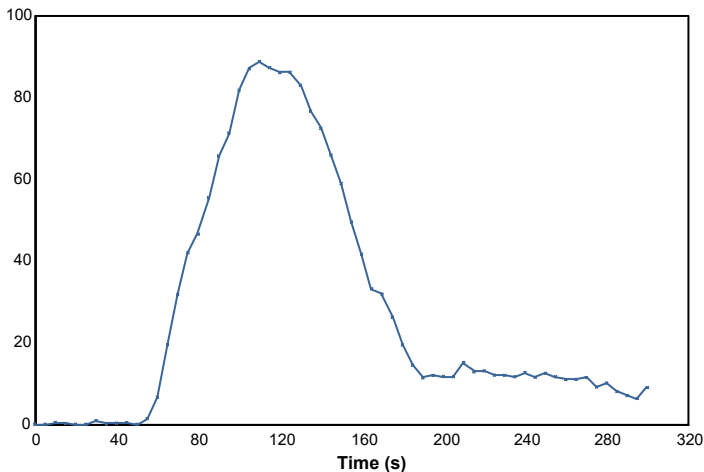
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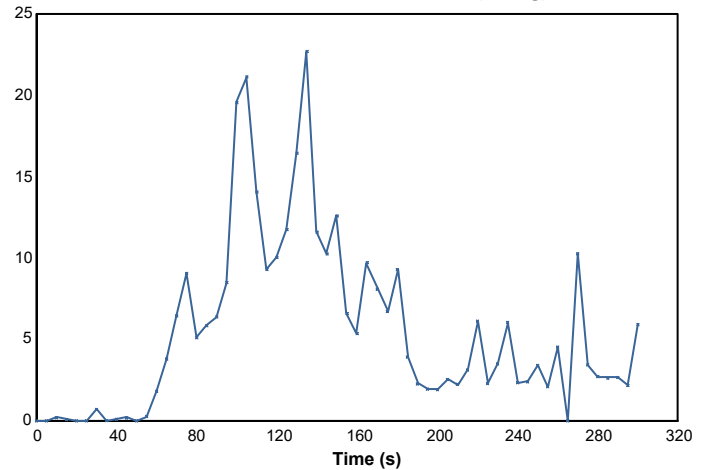
Test Number : 25-001243
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Specimen : 3

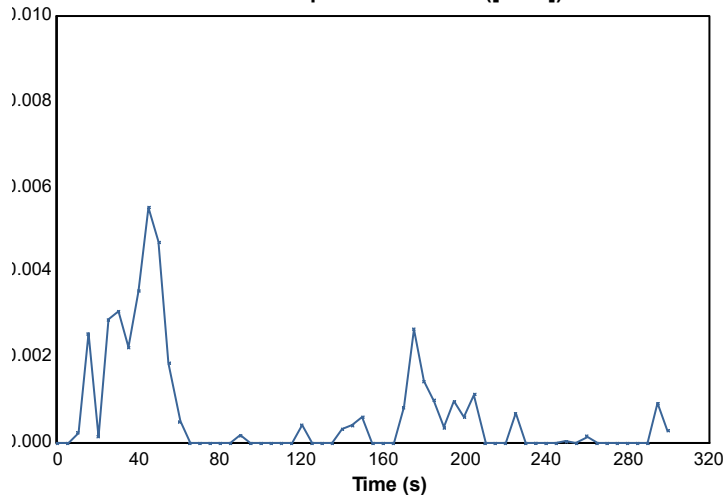
Heat release rate (kW/m²)



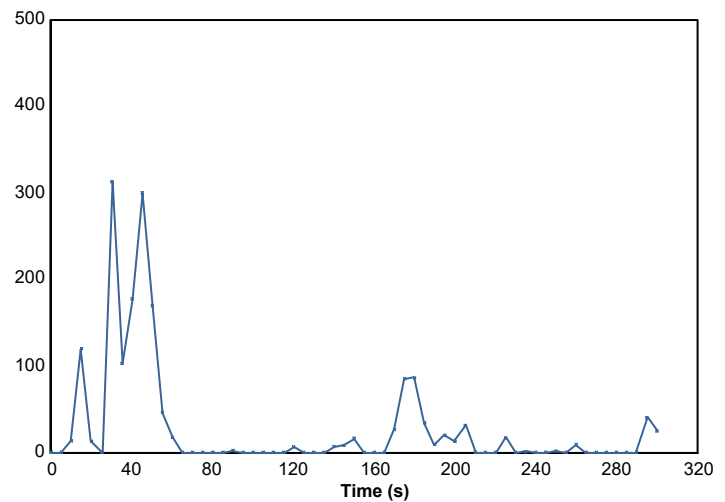
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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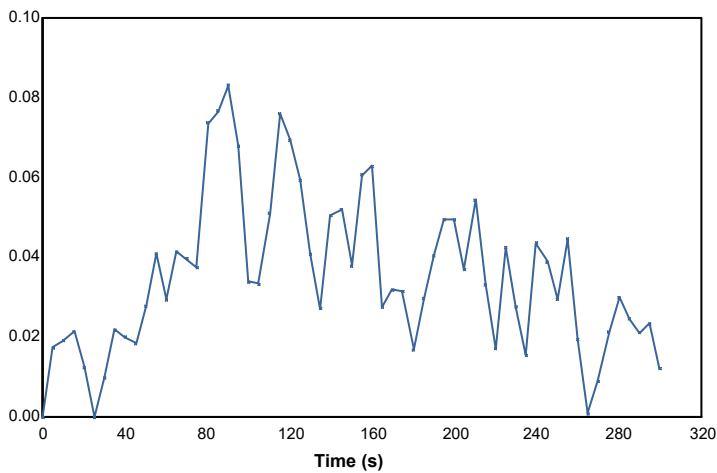
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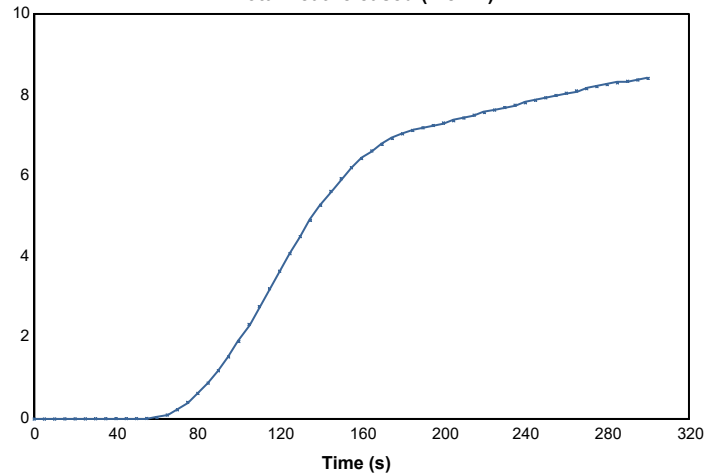
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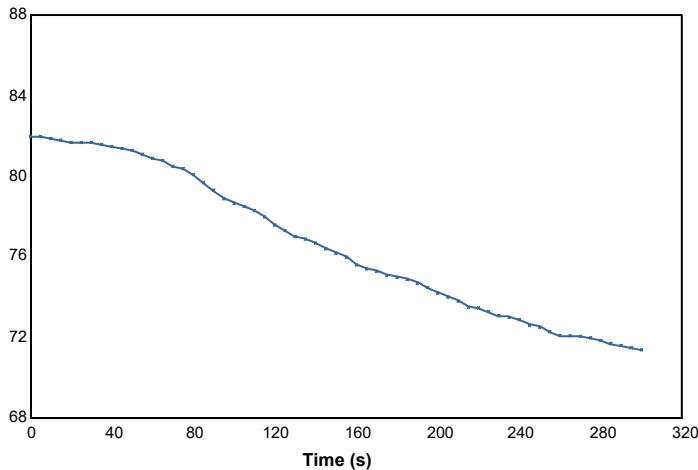
Mass loss rate (g/s)



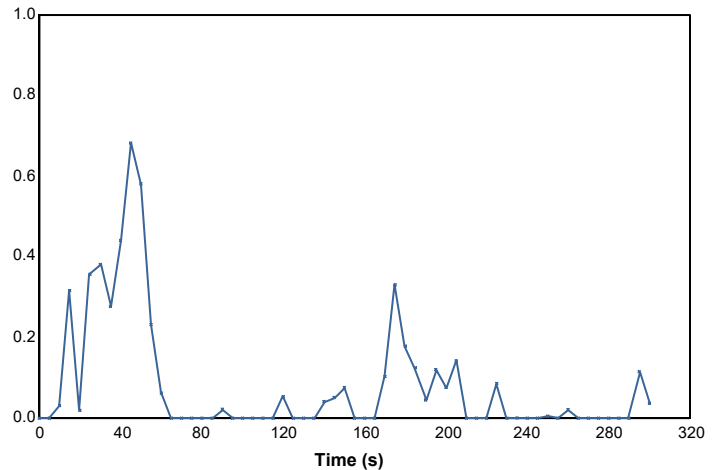
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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Sample Description

Clients Ref : "EVO by Bord Products on MR MDF"

Composite panel

Sample D: Rigid panel

End Use : Interior Joinery, Wall Panelling, Furniture

Nominal Composition : MR MDF

Nominal Mass per Unit Area/Density : Approx: 8.74kg/m2

Nominal Thickness : Approx 12mm



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AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 17-04-2025
Operator AWTA Test Operator 21
Face Tested Face

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	34.2	47.1	56.4	45.9	kW/m ²
Average Specific extinction area	22.7	56.8	73.7	51.1	m ² /kg

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	42	42	40	41	sec
Test duration	3600	3600	3600	3600	sec
Peak heat release after ignition	228.8	233.5	206.0	222.8	kW/m ²
Average heat at 60 s	153.3	157.4	145.8	152.1	kW/m ²
Average heat at 180 s	146.0	149.3	147.5	147.6	kW/m ²
Average heat at 300 s	132.8	136.8	137.9	135.8	kW/m ²
Total heat released	122.7	167.3	200.8	163.6	MJ/m ²
Average effective heat of combustion	11.3	15.5	18.7	15.2	MJ/kg
Initial thickness	12	12	12	12.0	mm
Initial mass	88.3	87.9	88.5	88.2	g
Mass remaining	1.1	0.5	1.7	1.1	g
Mass percentage pyrolysed	98.7	99.5	98.1	98.8	%

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Mass loss	10.8	10.8	10.7	10.8	kg/m ²
Average rate of mass loss	3.0	3.0	3.0	3.0	g/m ² .s
Additional Observations	Nil				
Difficulties Encountered during Testing	Nil				

Tests were conducted with a wire grid placed over the sample during testing.
This was done to contain intumescent sample within the sample holder.

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.

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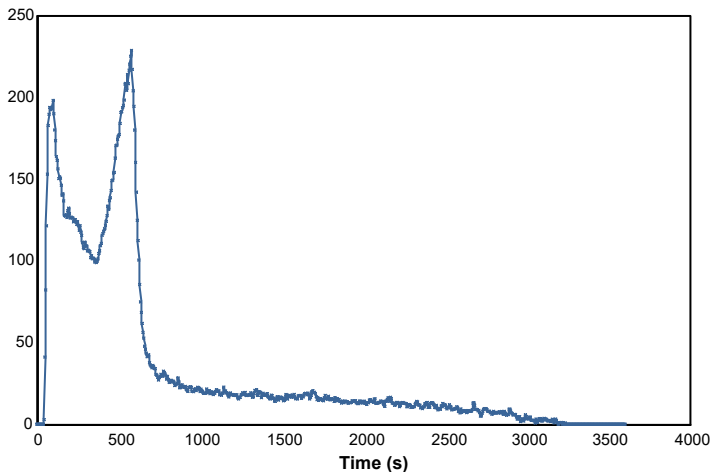
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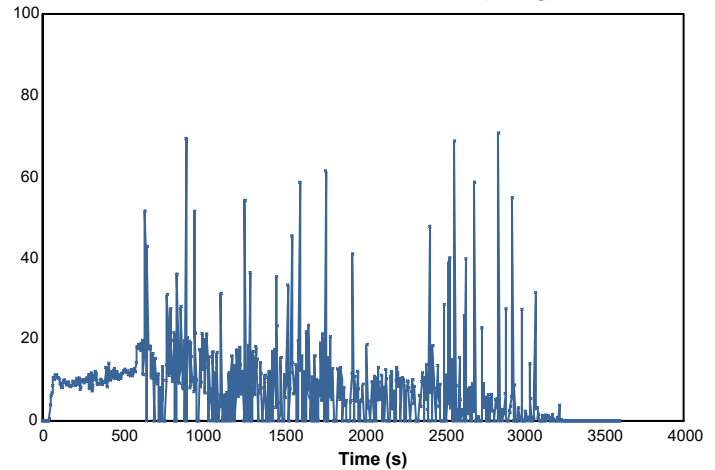
Test Number : 25-001243
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Specimen : 1

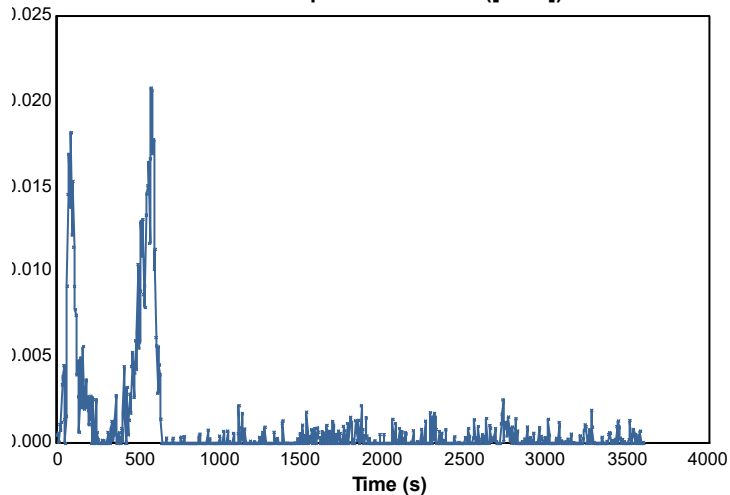
Heat release rate (kW/m²)



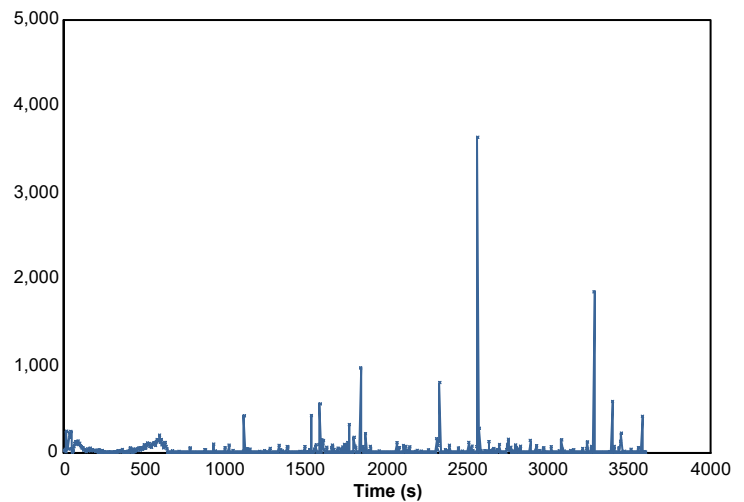
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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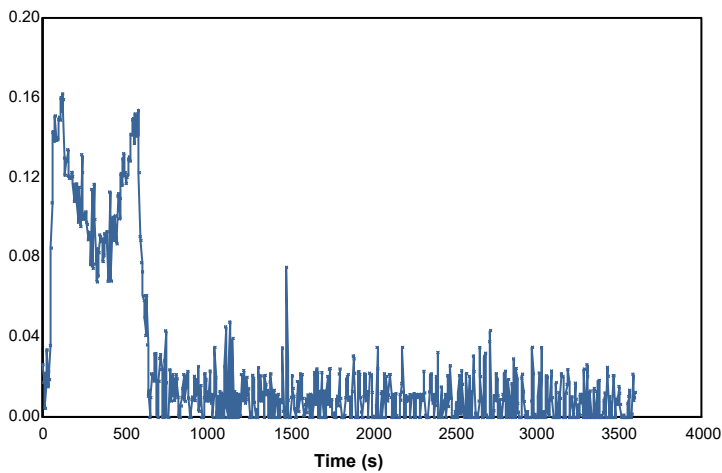
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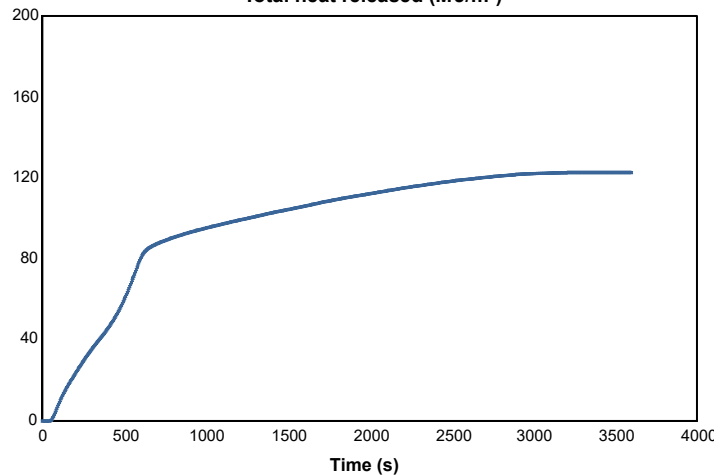
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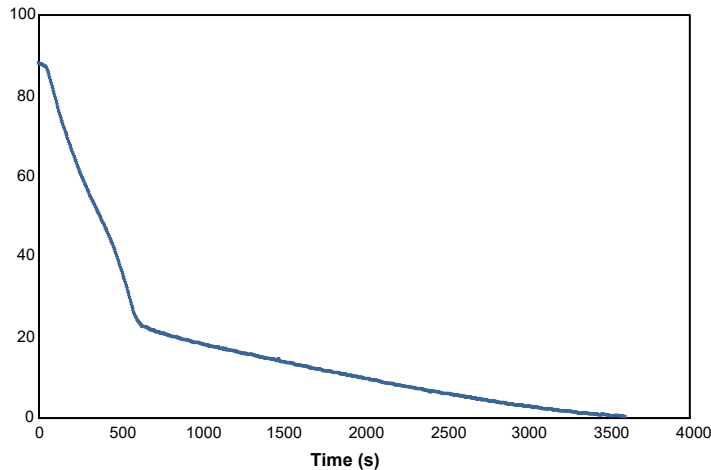
Mass loss rate (g/s)



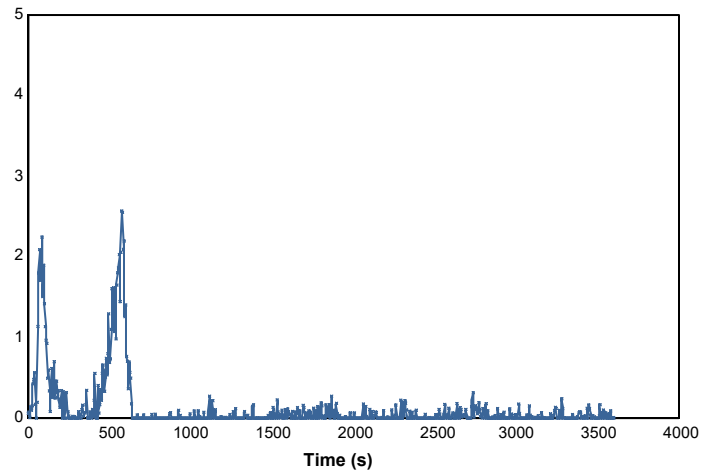
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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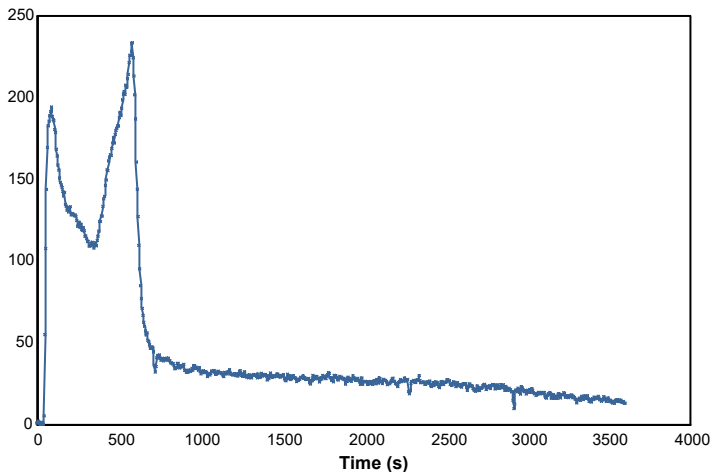
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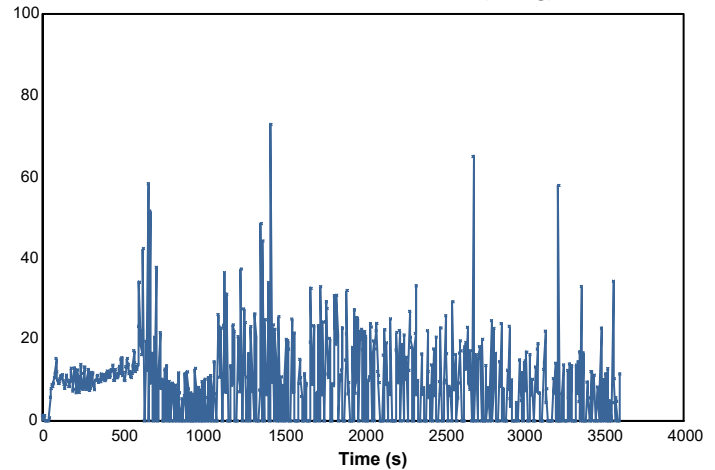
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Specimen : 2

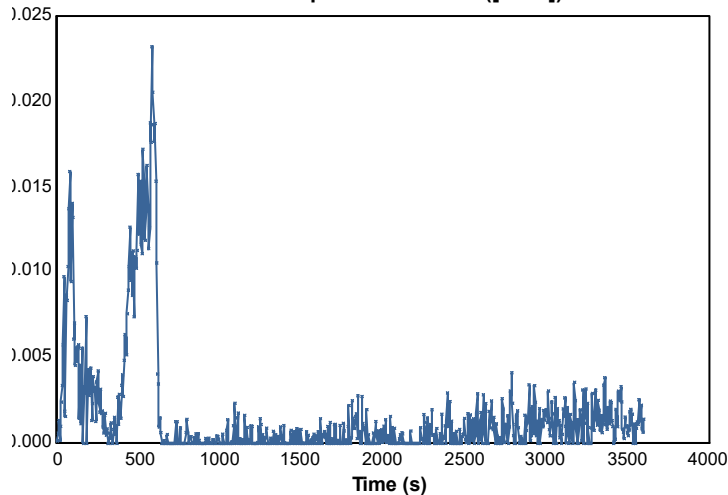
Heat release rate (kW/m²)



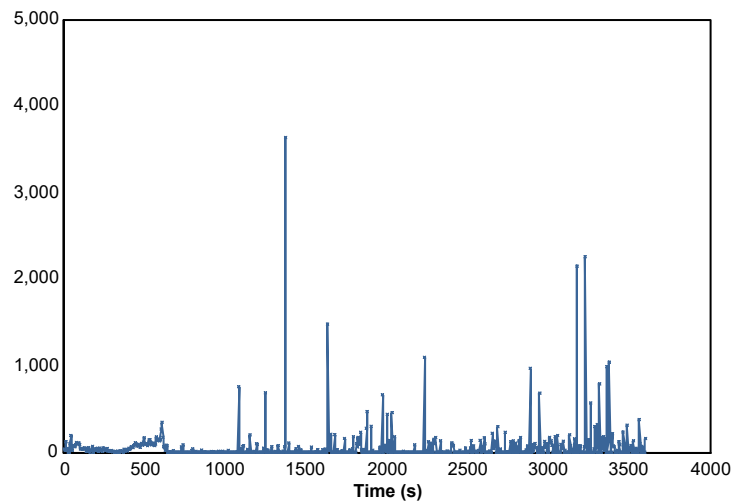
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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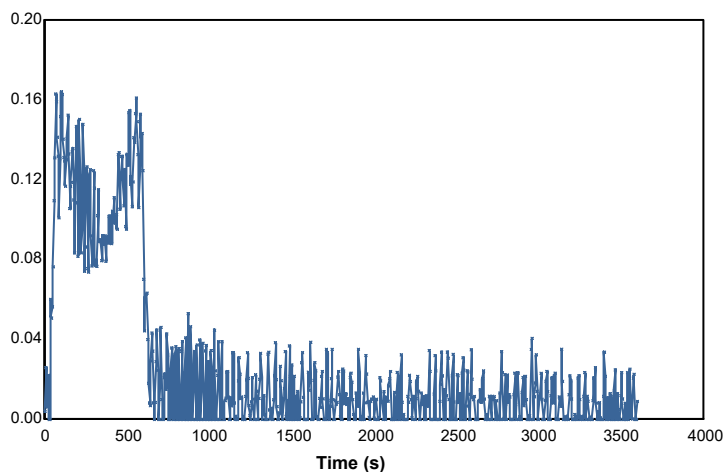
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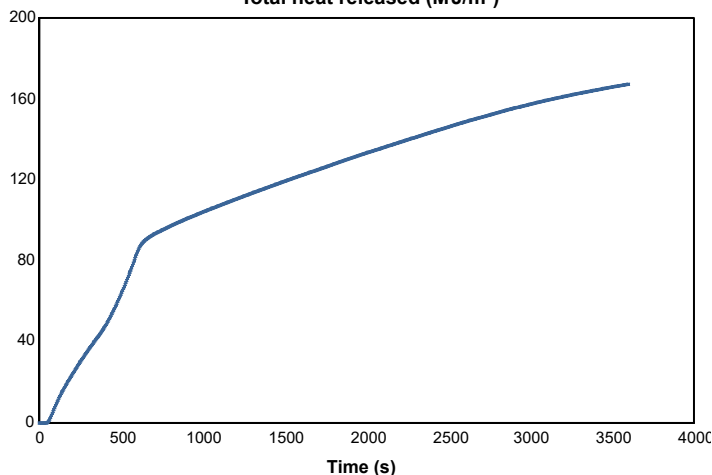
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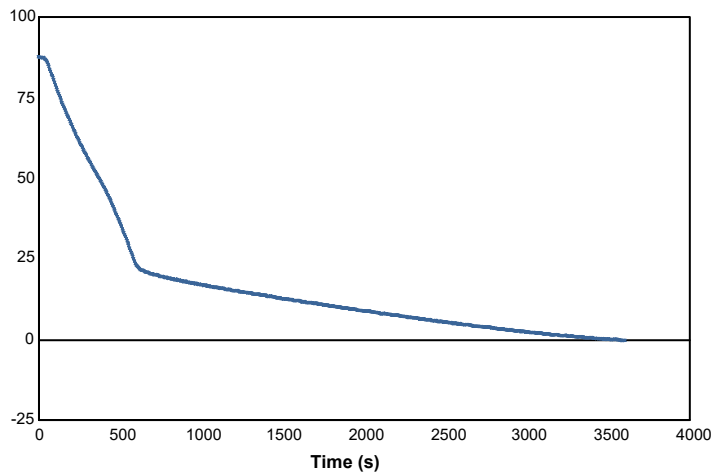
Mass loss rate (g/s)



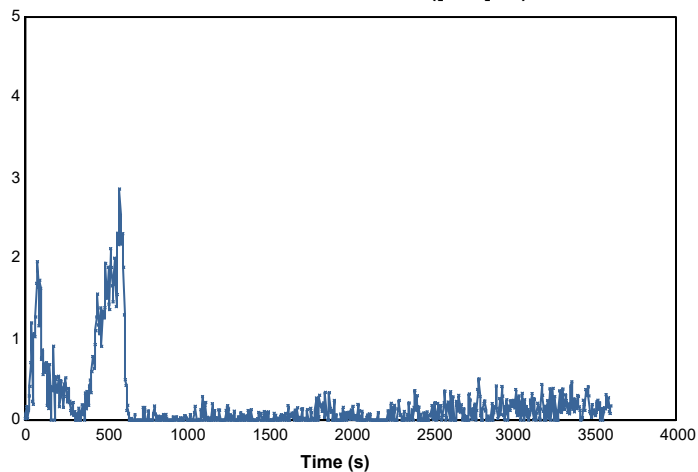
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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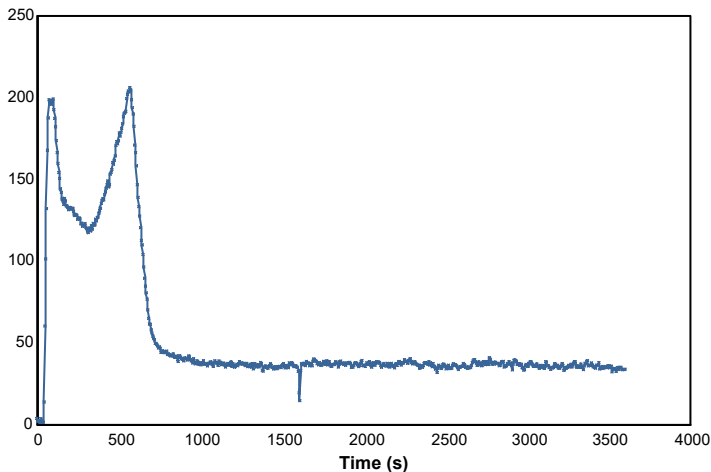
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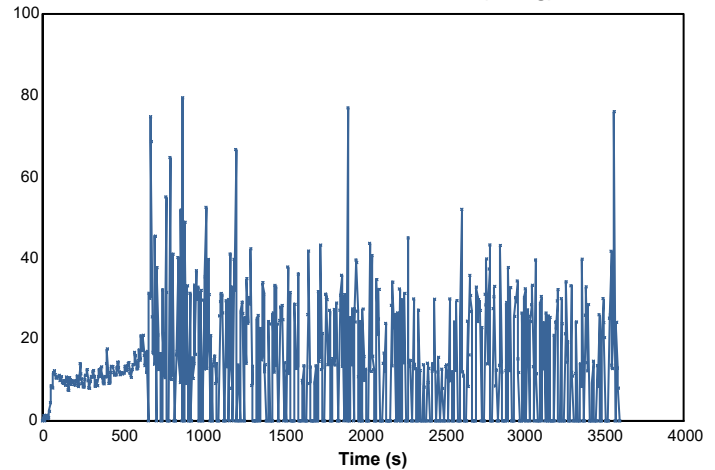
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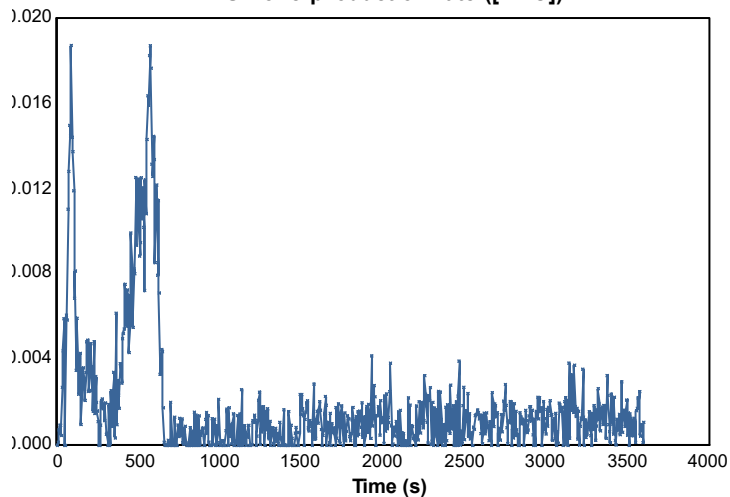
Heat release rate (kW/m²)



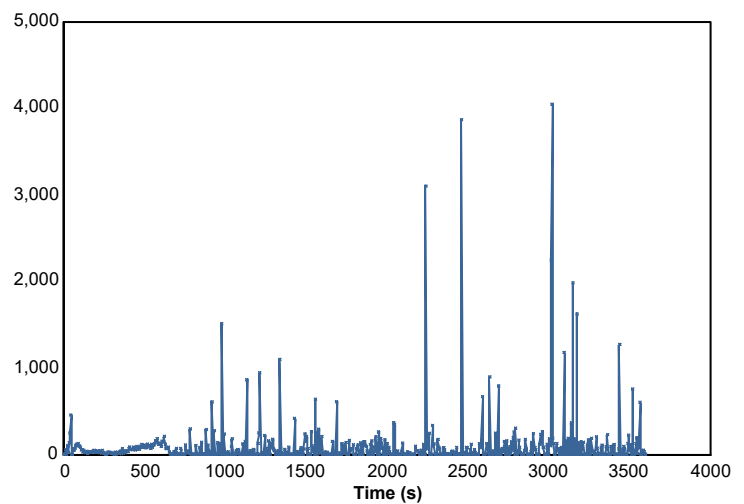
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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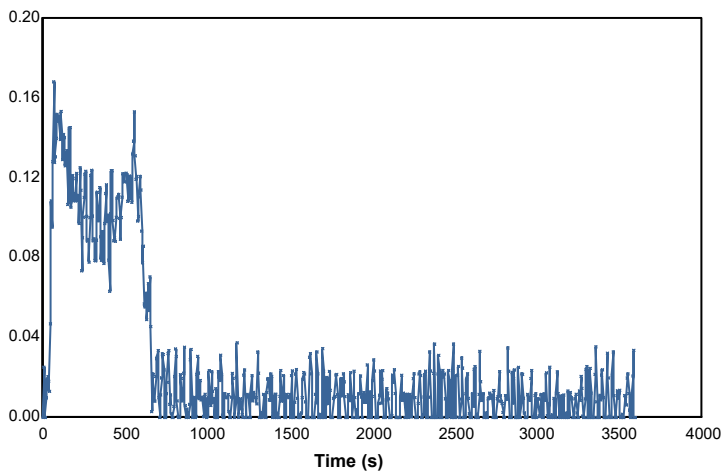
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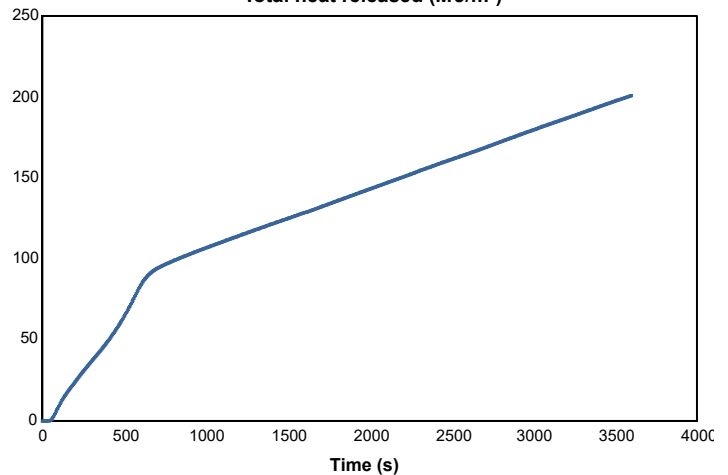
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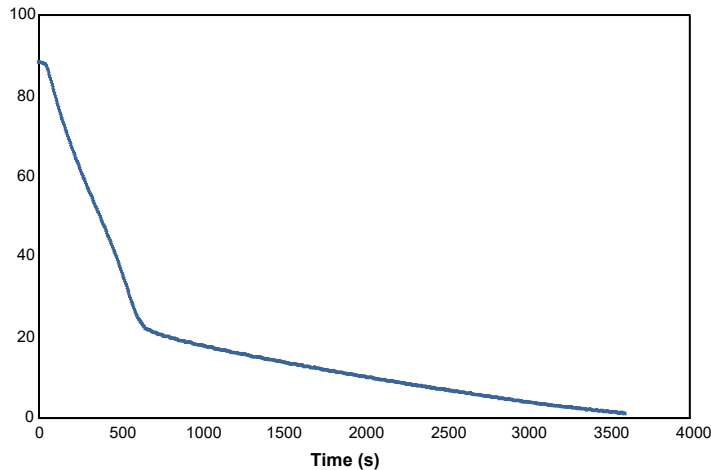
Mass loss rate (g/s)



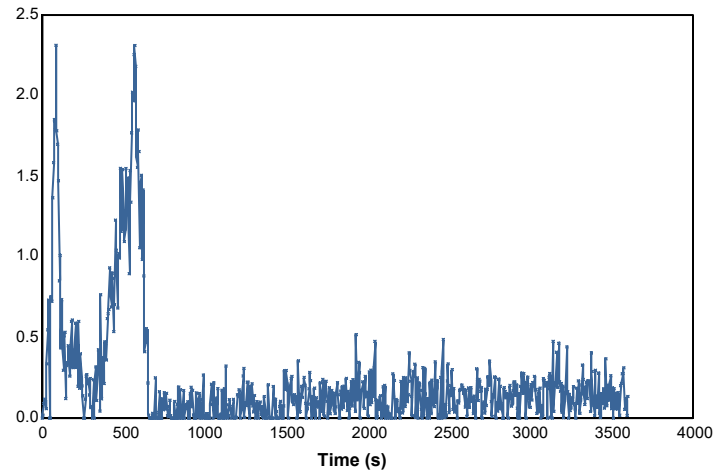
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



222729

76386

Page 36 of 36

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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