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: Promat Australia (Etex)

Suite 201/198 Habour Esplanade

Docklands VIC 3008

Test Number : 24-003464

Issue Date : 18/09/2024

Print Date : 24/09/2024

Sample Description Clients Ref : "EQUITONE (inspira)"

Fibre reinforced cement sheeting with digital print and UV coating End Use: Internal Wall & Ceiling Linings and External Cladding

Nominal Composition: Cement reinforcing fibres, additives, limestone and other natural

mineral fibres

Nominal Mass per Unit Area/Density: 1750kg/m3

Nominal Thickness: 8mm



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Chris Campbell

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Test Number : 24-003464

Issue Date : 18/09/2024

Print Date : 24/09/2024

ISO 5660.1-2015 Reaction to Fire Tests - Heat Release Smoke Production and Mass Loss Rate Part 1: Heat

Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Date Tested 17-09-2024

Operator AWTA Test Operator 21

Face Tested Brown

	Specimen										
	1	2	3	4	5	6	Mean				
Average Heat Release Rate	-0.6	fti	13.2	15.8	fti	10.5	9.7	kW/m²			
Average Specific extinction area	0.0	1.1	63.1	38.1	13.9	2.9	19.9	m²/kg			
	(According to ISO 5660.2-2002)										
Test orientation : Horizontal											
	Specimen										
	1	2	3 4 5			6	Mean				
Irradiance	50	50	50	50	50	50	50	kW/m²			
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m³/s			
Time to sustained flaming	237	fti	551	482	fti	330	400	sec			
Test duration	2037	1800	2351	2282	1800	2130	2067	sec			
Peak heat release after ignition	38.2	n/a	34.5	35.1	n/a	29.8	34.4	kW/m²			
Average heat at 180 s	12.1	n/a	24.6	23.0	n/a	15.2	18.7	kW/m²			
Average heat at 300 s	8.4	n/a	20.9	19.7	n/a	12.8	15.5	kW/m²			
Total heat released	3.6	n/a	23.8	28.5	n/a	18.8	18.7	MJ/m²			
Ave. effective heat of combustion	-0.5	n/a	30.1	23.2	n/a	10.6	15.9	MJ/kg			
Initial thickness	8	8	8	8	8	8	8.0	mm			
Initial mass	166.6	165.6	165.1	166.8	167.6	166.8	166.4	g			
Mass at sustained flaming	158.2	n/a	144.3	148.9	n/a	153.0	151.1	g			
Mass remaining	147.4	138.4	158.6	156.6	138.4	152.3	148.6	g			

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TEST REPORT

Client: Promat Australia (Etex)

Suite 201/198 Habour Esplanade

Docklands VIC 3008

Test Number :

24-003464

Issue Date

18/09/2024

Print Date

24/09/2024

Mass loss	2373.8	n/a	799.6	1261.9	n/a	1784.3	1554.9	g/m²
Average rate of mass loss	1.3	n/a	0.4	0.7	n/a	1.0	0.9	g/m².s
Total smoke Production (Non Flaming phase)	10.9	36.0	26.8	18.6	51.6	15.7	26.6	m²/m²
Total smoke Production (Flaming phase)	1.5	0.0	49.7	47.4	0.0	13.1	-	m²/m²
Total smoke Production (Non Flaming & Flaming phase)	12.4	36.0	76.5	66.0	51.6	28.8	45.2	m²/m²
C-Factor (Calibration Constant)	0.043937	0.043937	0.043937	0.043937	0.043937	0.043937		-

Additional Observations

Loud cracking noted for some specimens.

Difficulties Encountered during Testing

Nil

fti = failed to ignite

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

Note: All calculations are based on ignition + 30 minutes.

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.

Note: The sample has a heat release rate of less than 50 kW/m². In accordance with

New Zealand Building Code verification Method C/VM2 Appendix A this product shall be classified as Group 1.

If a different classification group is obtained for different specimens tested, then the highest (worst) classification for any specimen must be taken as the final classification for that material.

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Chris Campbell

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TEST REPORT

Promat Australia (Etex) Client:

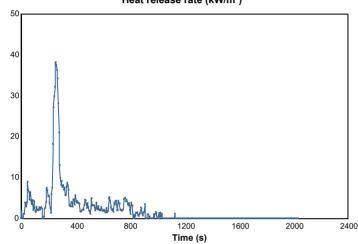
Suite 201/198 Habour Esplanade

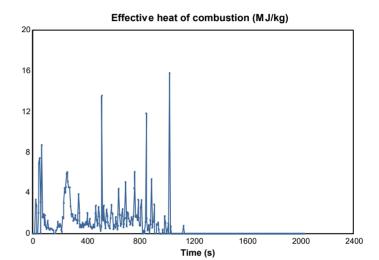
Docklands VIC 3008

24-003464 Test Number : Issue Date 18/09/2024

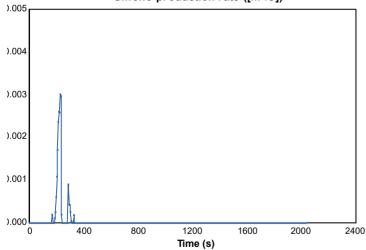
24/09/2024 **Print Date**

Specimen: 1 Heat release rate (kW/m²)

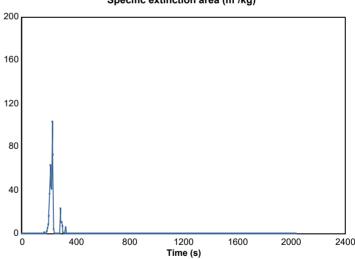




Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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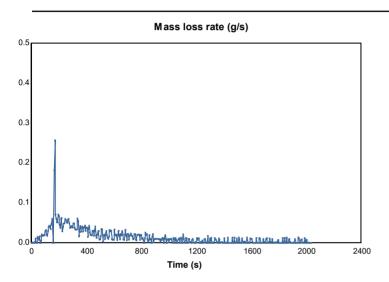
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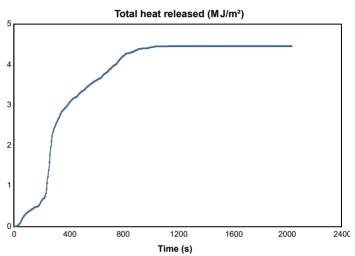
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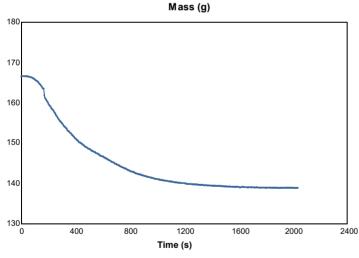
Docklands VIC 3008

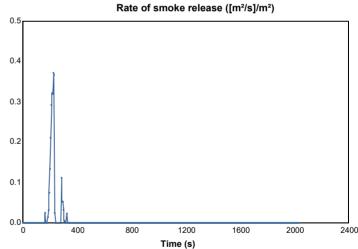
Test Number : 24-003464

Issue Date : 18/09/2024 Print Date : 24/09/2024









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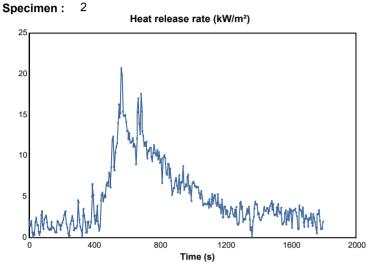
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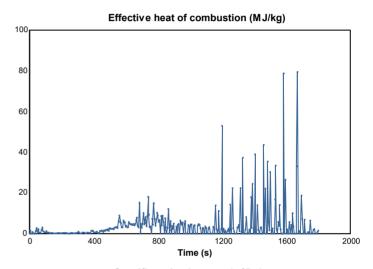
Suite 201/198 Habour Esplanade

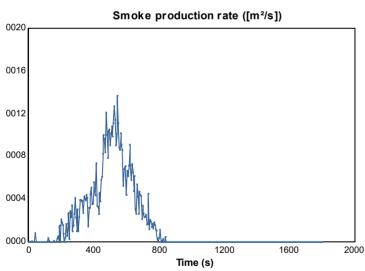
Docklands VIC 3008

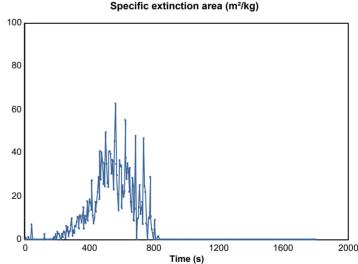
24-003464 Test Number :

Issue Date 18/09/2024 24/09/2024 **Print Date**









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ANAGING DIRECTOR

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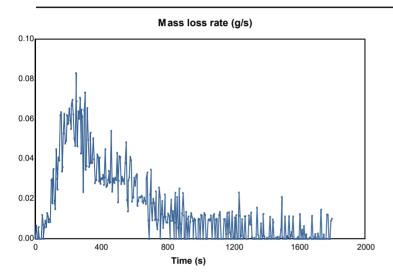
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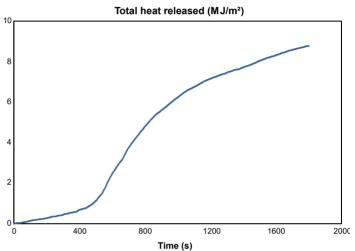
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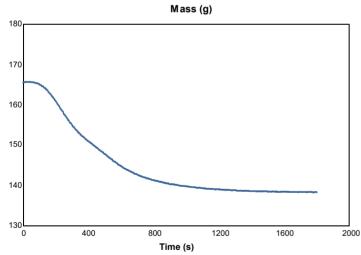
Docklands VIC 3008

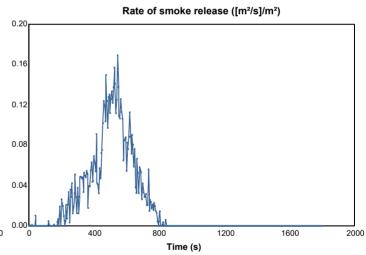
Test Number : 24-003464 Issue Date : 18/09/2024

Print Date : 24/09/2024









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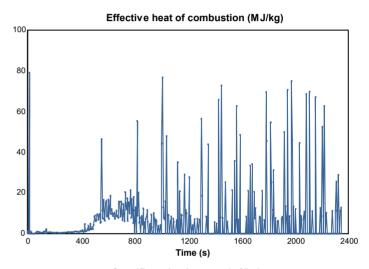
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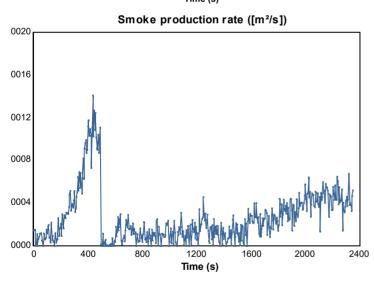
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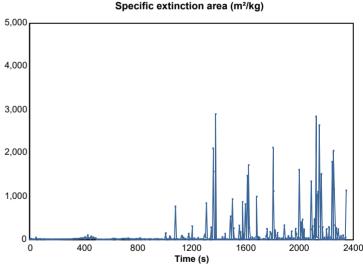
Issue Date : 18/09/2024

Print Date : 24/09/2024

Specimen: 3 Heat release rate (kW/m²) 50 40 30 20 10 400 800 1200 1600 2000 2400 Time (s)







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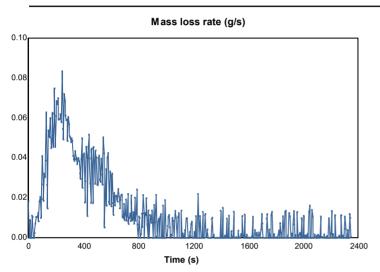
Client: Promat Australia (Etex)

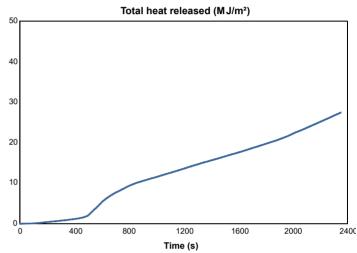
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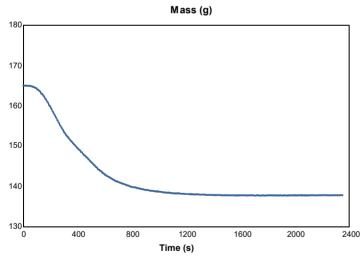
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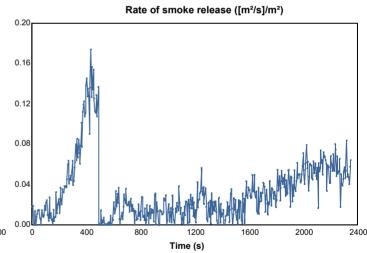
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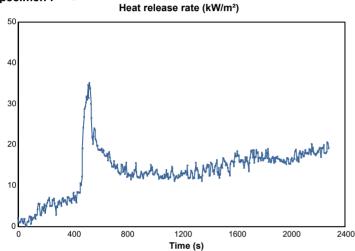
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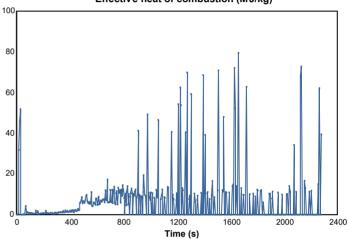
Test Number : 24-003464

Issue Date : 18/09/2024 Print Date : 24/09/2024

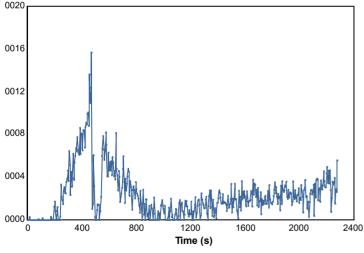
Specimen: 4



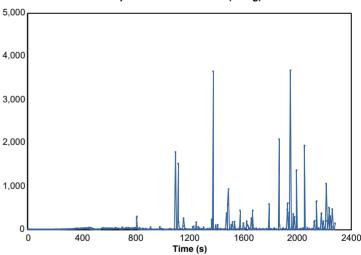
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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TEST REPORT

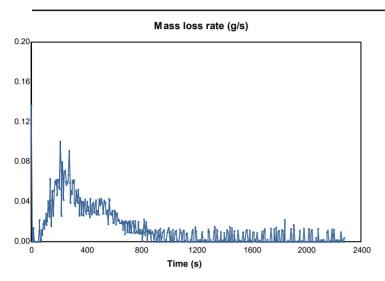
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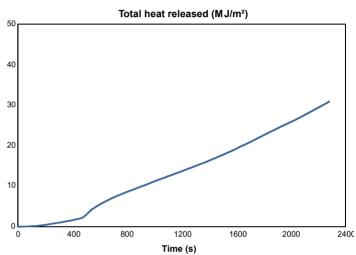
Suite 201/198 Habour Esplanade

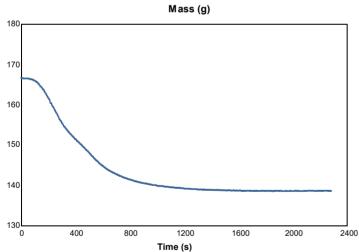
Docklands VIC 3008

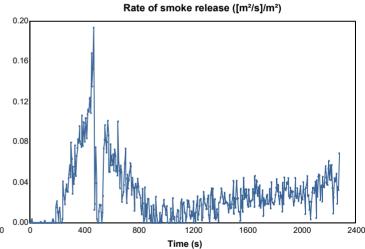
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Issue Date : 18/09/2024 Print Date : 24/09/2024









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NTA Product Testing

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TEST REPORT

Promat Australia (Etex) Client:

Suite 201/198 Habour Esplanade

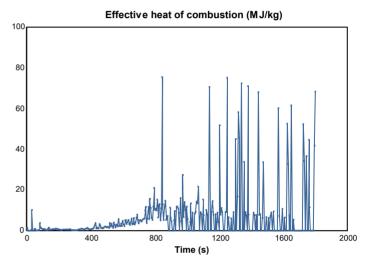
Docklands VIC 3008

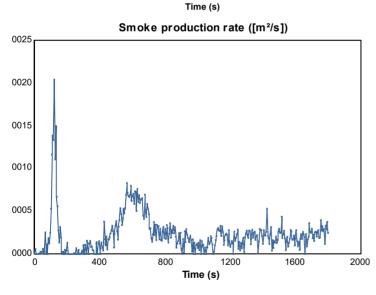
24-003464 Test Number :

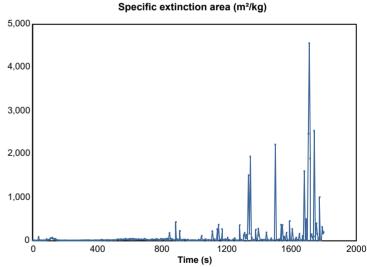
Issue Date 18/09/2024

24/09/2024 **Print Date**

Specimen: Heat release rate (kW/m²) 800 1200 1600 2000







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TEST REPORT

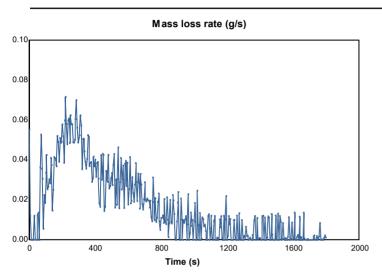
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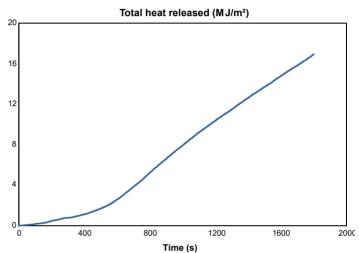
Suite 201/198 Habour Esplanade

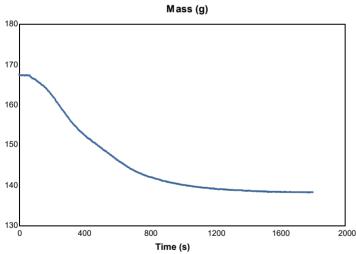
Docklands VIC 3008

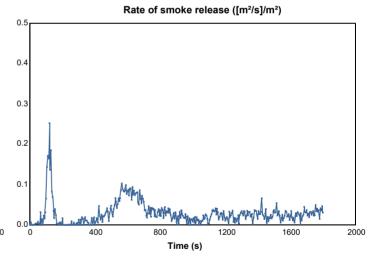
Test Number : 24-003464 Issue Date : 18/09/2024

Print Date : 24/09/2024









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Accreditation Numbers: 983, 985, and 1356

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Chris Campbell

APPROVED SIGNATORY



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: Promat Australia (Etex)

Suite 201/198 Habour Esplanade

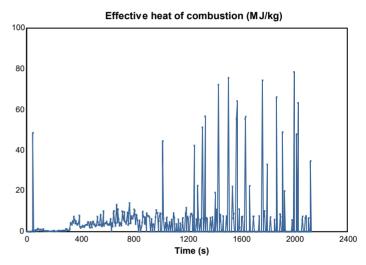
Docklands VIC 3008

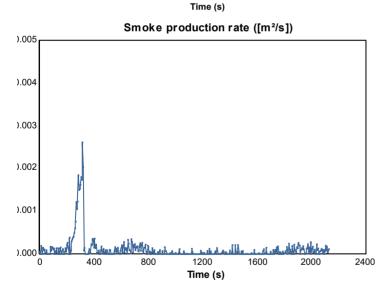
Test Number : 24-003464

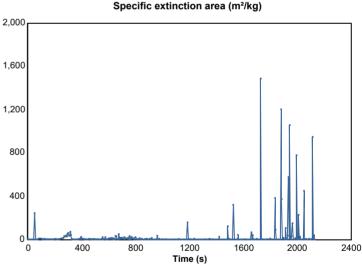
Issue Date : 18/09/2024

Print Date : 24/09/2024

Specimen: 6 Heat release rate (kW/m²) 50 40 30 20 10 0 400 800 1200 1600 2000 2400







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TEST REPORT

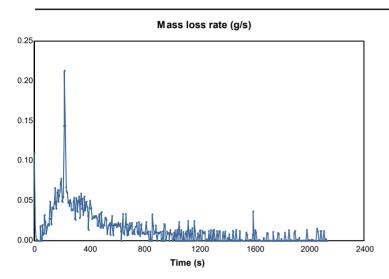
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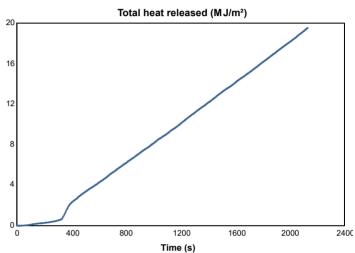
Suite 201/198 Habour Esplanade

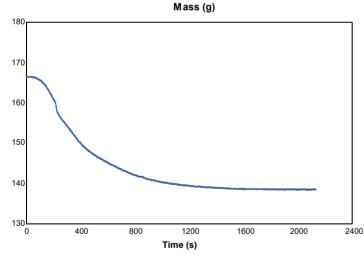
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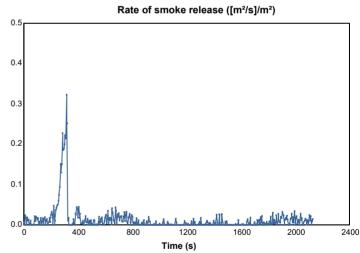
Test Number : 24-003464

Issue Date : 18/09/2024 Print Date : 24/09/2024









212531

72781

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Chris Campbell

APPROVED SIGNATORY



MICHAEL A. JACKSON B.Sc.(Hons)