

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 : Armacell (Guangzhou) Ltd
Guangqiao, Shilou Town Panyu District
Guangzhou City, Guangdong Province 511447 China
China

Test Number : 21-000816
Issue Date : 19/03/2021
Print Date : 22/03/2021

Sample Description Clients Ref : "ArmaFlex FRV"
Flexible rubber
Colour : Black
End Use : Thermal insulation
Nominal Composition : Rubber (TPY 21/002-5-2021)
Nominal Mass per Unit Area/Density : 50-70g/m²
Nominal Thickness : 25mm

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 16-03-2021
Face Tested FACE

	Specimen						Mean	
	1	2	3	4	5	6		
Average Heat Release Rate	8.0	fti	fti	fti	fti	fti	fti	kW/m ²
Average Specific extinction area	108.7	464.6	481.2	463.4	443.4	445.2	401.1	m ² /kg

(According to ISO 5660.2-2002)

Test orientation : Horizontal

	Specimen						Mean	
	1	2	3	4	5	6		
Irradiance	50	50	50	50	50	50	50	kW/m ²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m ³ /s
Time to sustained flaming	107	fti	fti	fti	fti	fti	fti	sec
Test duration	1907	1800	1800	1800	1800	1800	1818	sec
Peak heat release after ignition	52.5	19.4	n/a	16.6	20.9	19.8	26.2	kW/m ²
Average heat at 60 s								

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Average heat at 180 s	21.7	8.8	n/a	8.0	12.5	10.8	12.4	kW/m ²
Average heat at 300 s	17.9	11.0	n/a	10.1	14.8	13.2	13.7	kW/m ²
Total heat released	14.5	22.1	35.8	8.0	20.9	23.8	20.9	MJ/m ²
Ave. effective heat of combustion	9.0	11.0	17.5	3.2	10.0	11.7	10.4	MJ/kg
Initial thickness	31	31	31	31	31	31	31.0	mm
Initial mass	72	62.6	67.9	66.8	66.9	65	66.9	g
Mass at sustained flaming	72.0	62.6	67.9	66.8	66.9	65.0	66.9	g
Mass remaining	58.5	46.4	51.4	50.5	50.0	48.5	50.9	g
Mass percentage pyrolysed							24.0	
Mass loss	1667.5	2003.7	2039.9	2017.0	2087.2	2037.9	1975.5	g/m ²
Average rate of mass loss	0.9	1.1	1.1	1.1	1.2	1.1	1.1	g/m ² .s
Total smoke Production (Non Flaming phase)	607.4	934.5	981.6	935.6	925.9	926.1	885.2	m ² /m ²
Total smoke Production (Flaming phase)	191.9	0.0	0.0	0.0	0.0	0.0	32.0	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	799.3	934.5	981.6	935.6	925.9	926.1	917.2	m ² /m ²
Specimen Surface area							-	
C-Factor (Calibration Constant)	0.042221	0.042221	0.042127	0.042221	0.042221	0.042127	-	
Additional Observations		NONE						
Difficulties Encountered during Testing		NONE						

fti = failed to ignite

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Michael A. Jackson
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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.

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

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

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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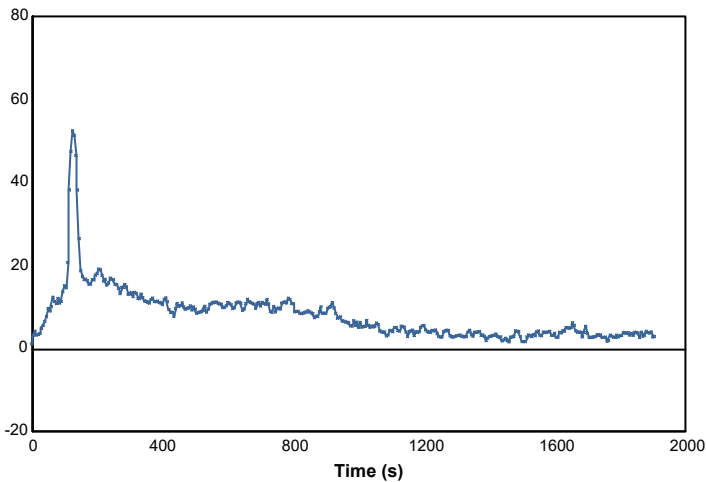
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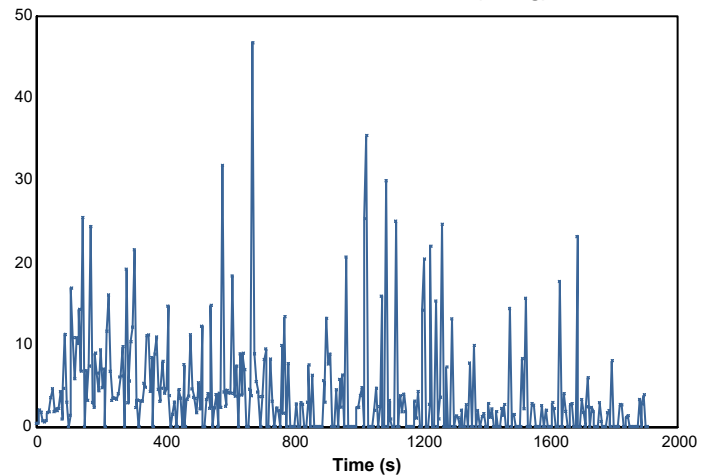
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Specimen : 1

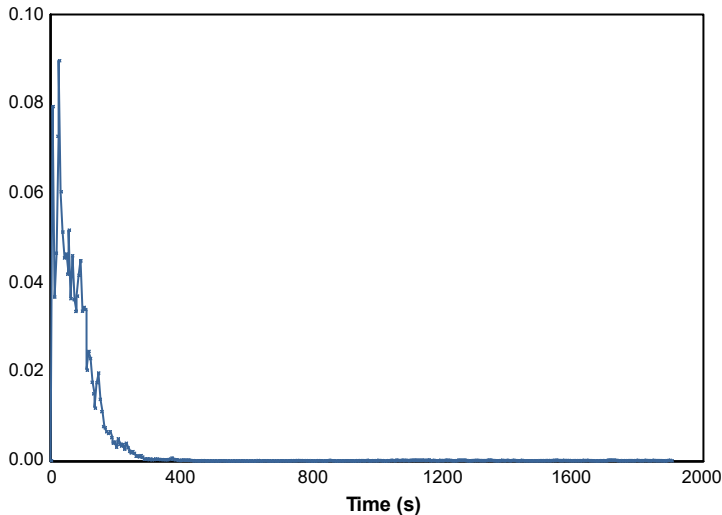
Heat release rate (kW/m²)



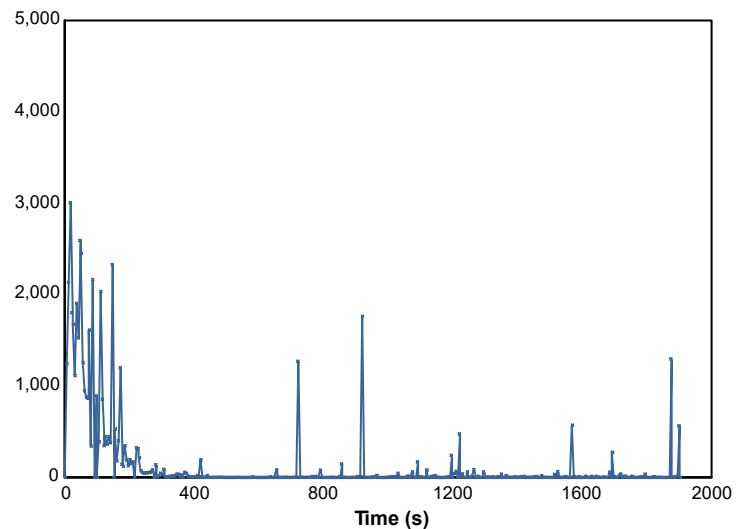
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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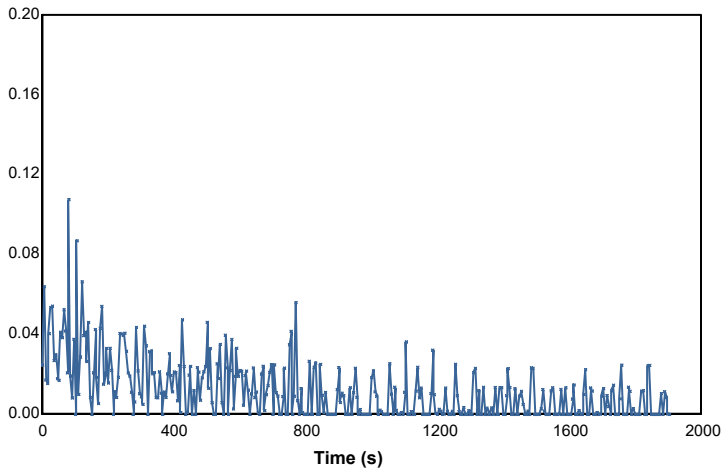
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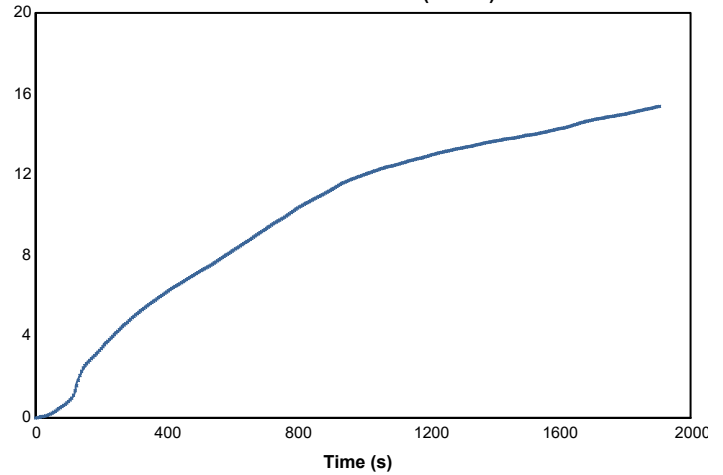
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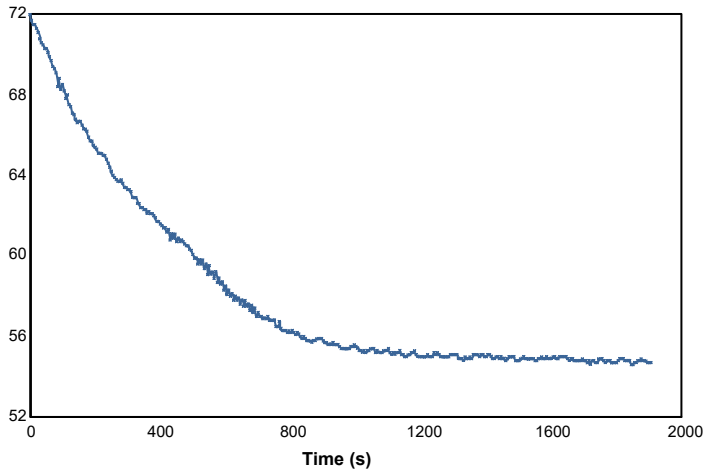
Mass loss rate (g/s)



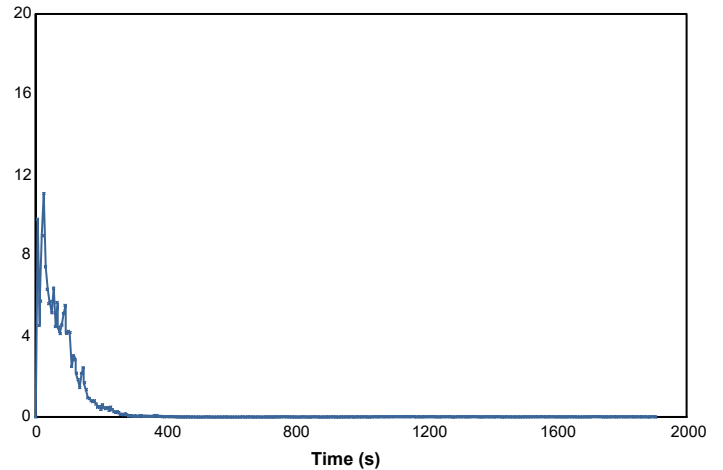
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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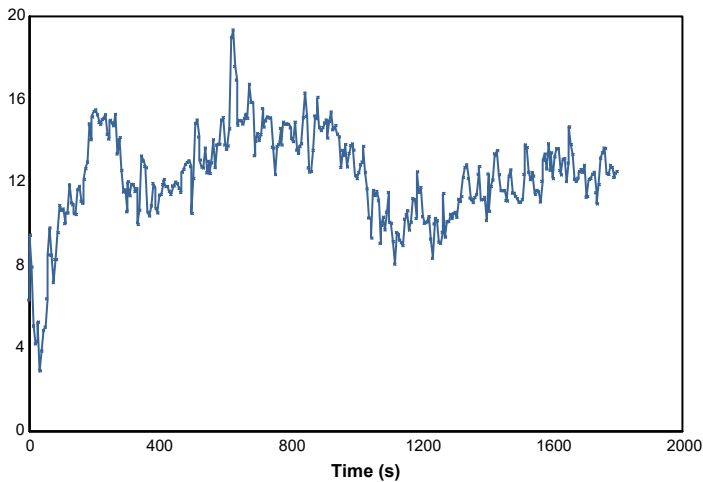
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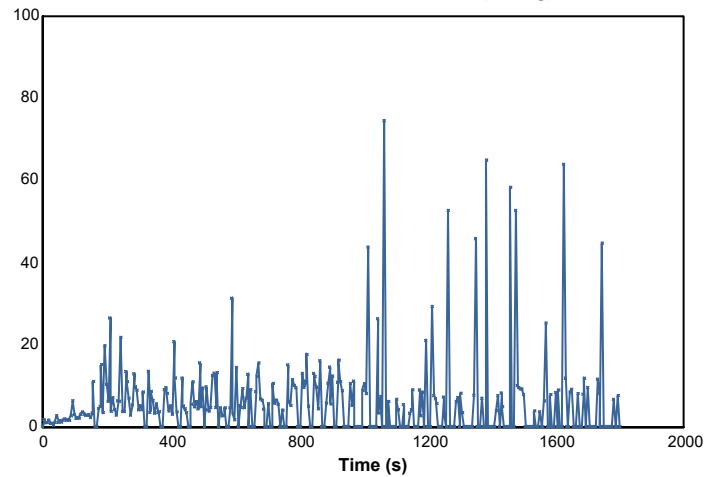
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Specimen : 2

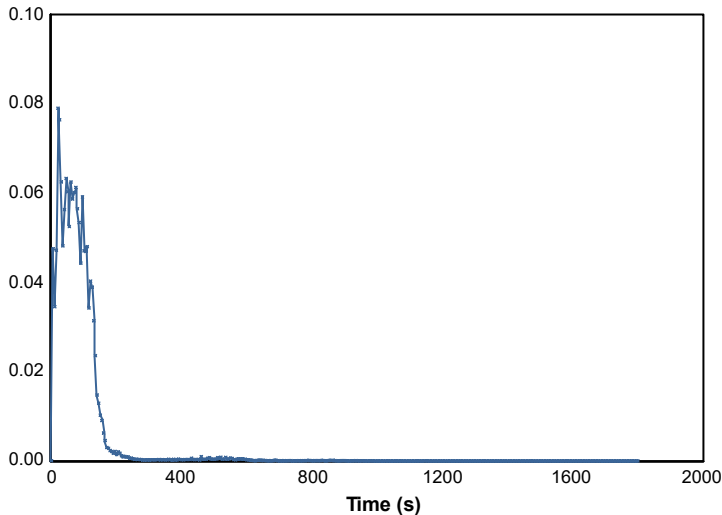
Heat release rate (kW/m²)



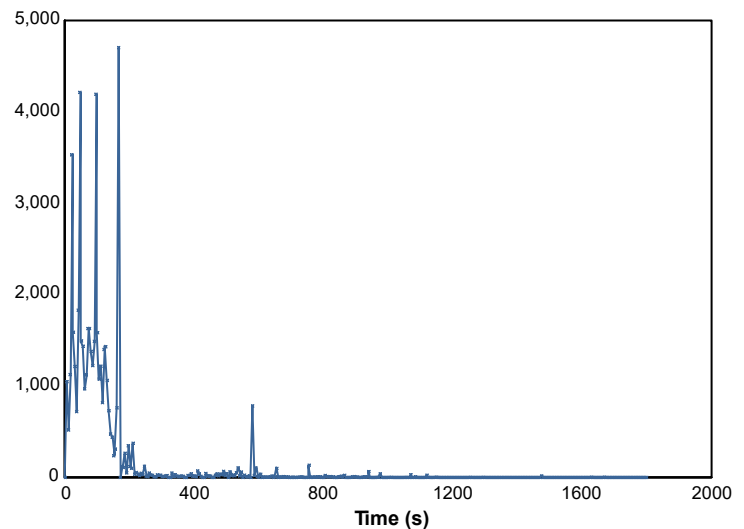
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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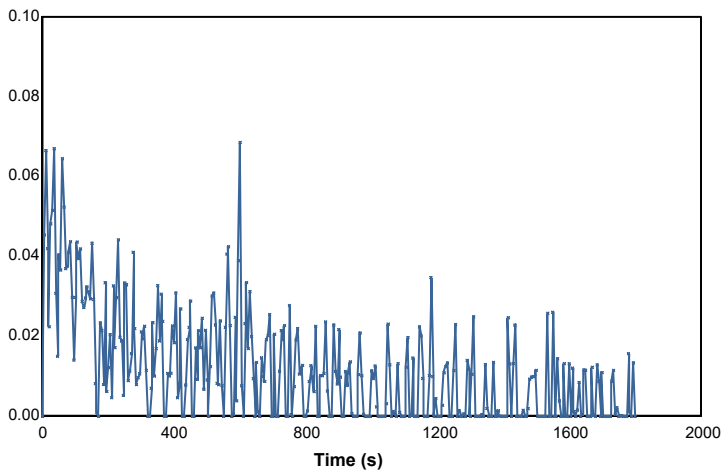
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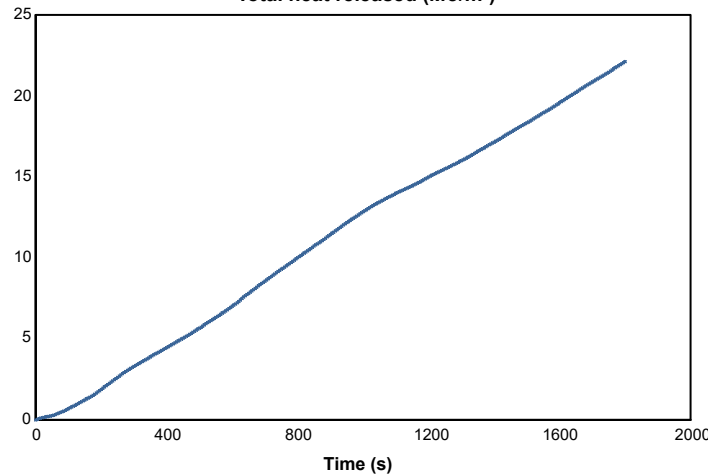
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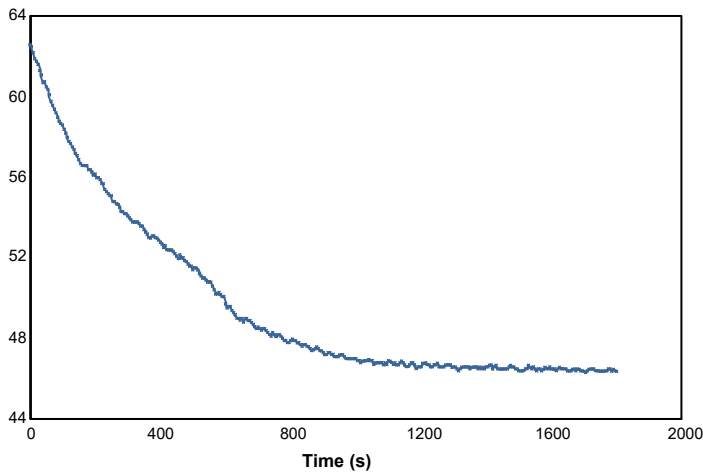
Mass loss rate (g/s)



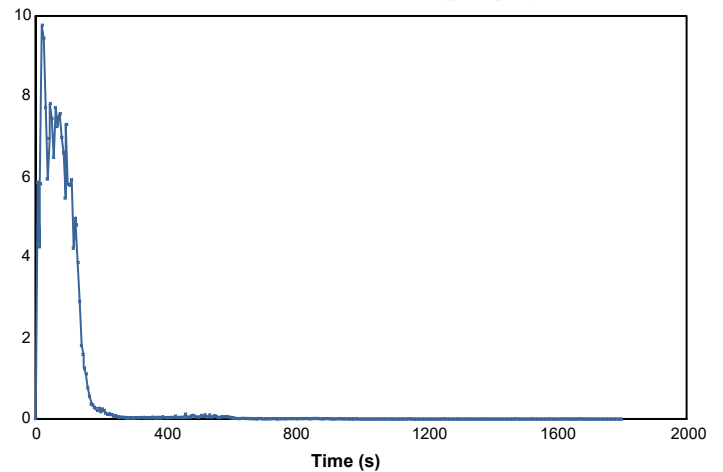
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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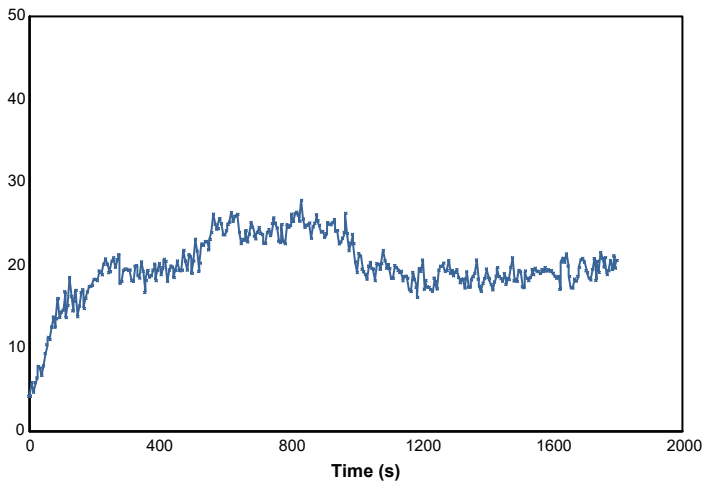
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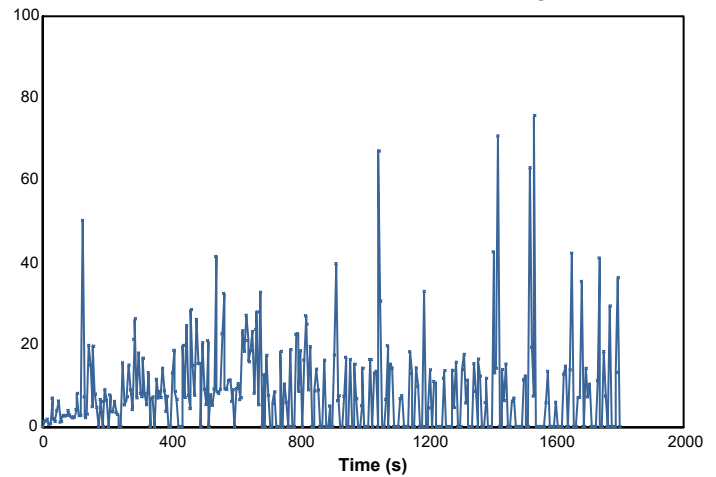
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Specimen : 3

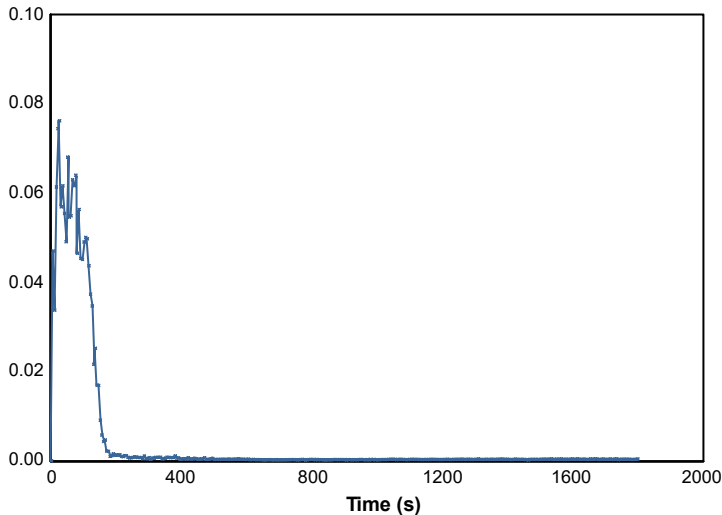
Heat release rate (kW/m²)



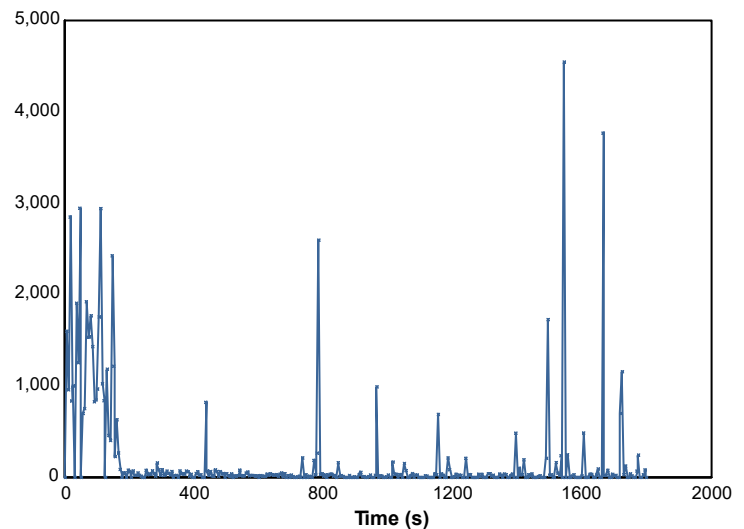
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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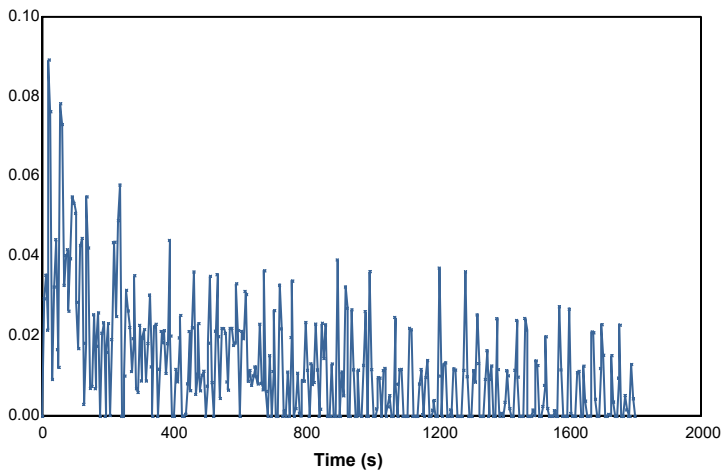
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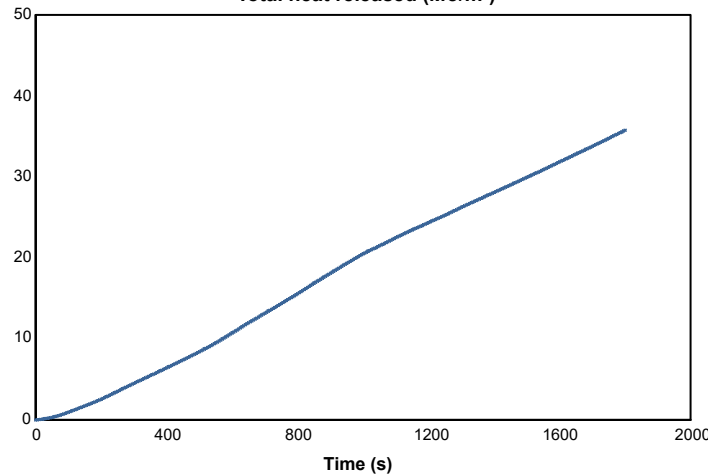
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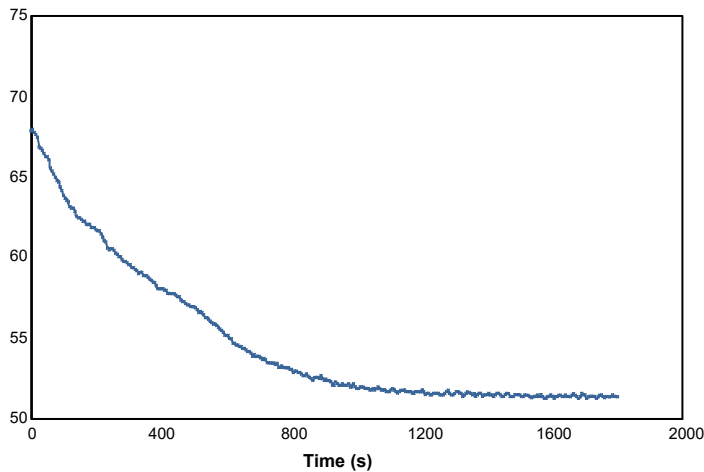
Mass loss rate (g/s)



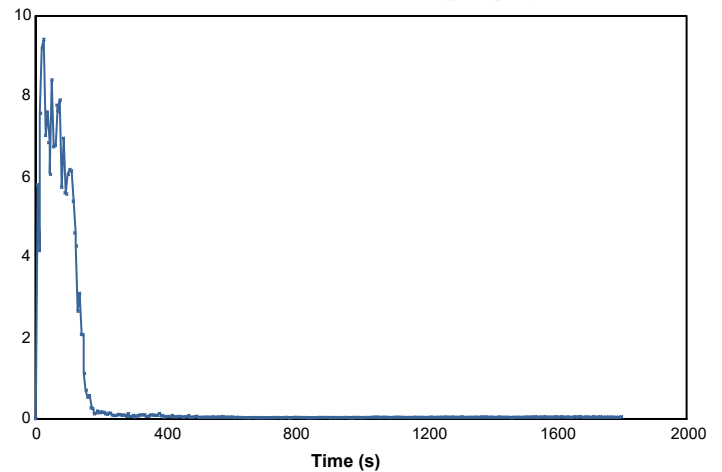
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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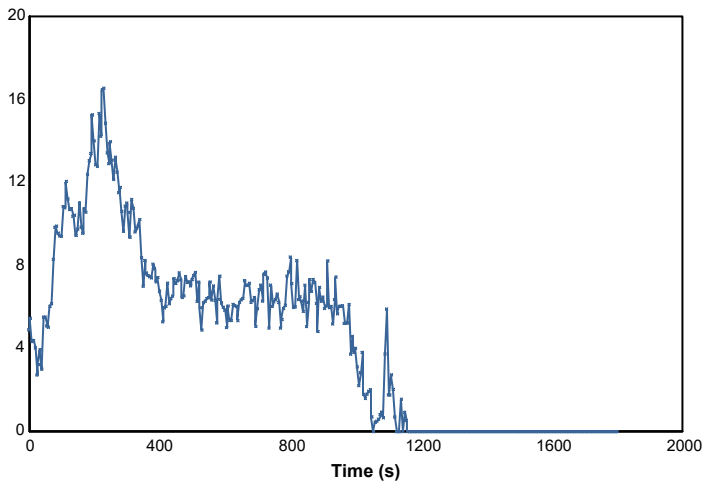
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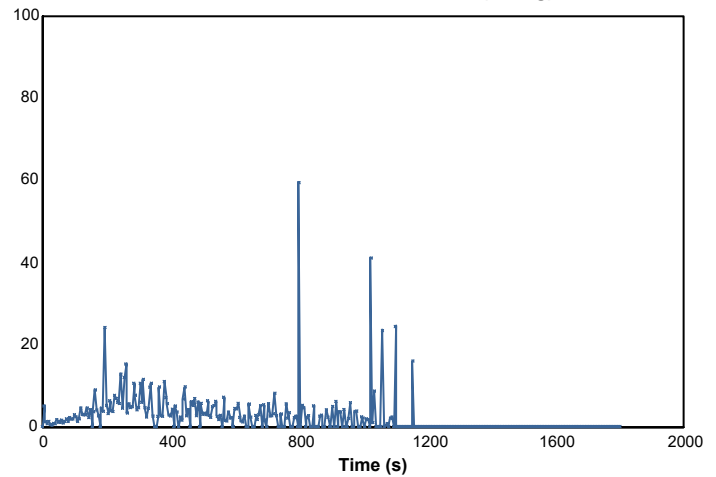
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Specimen : 4

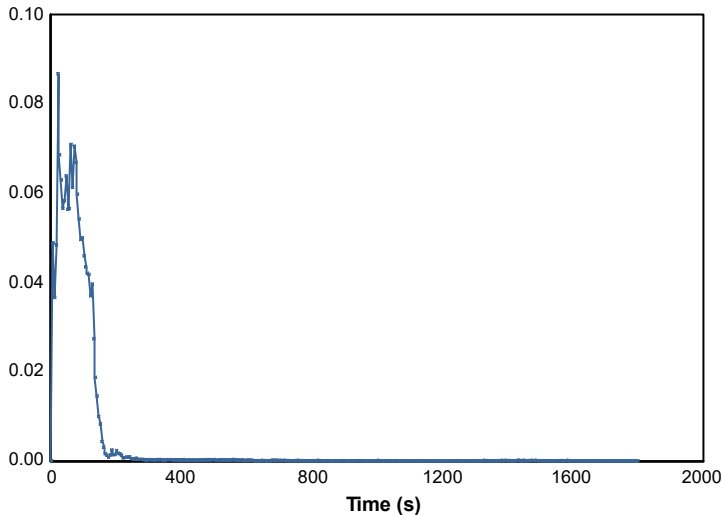
Heat release rate (kW/m²)



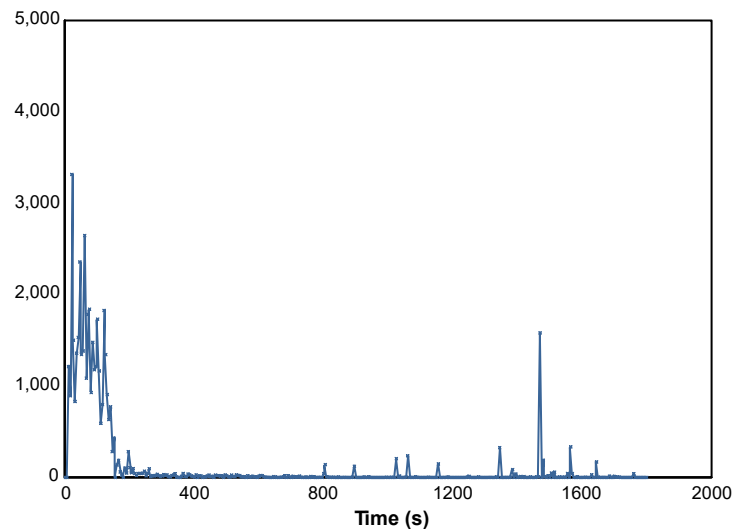
Effective heat of combustion (MJ/kg)



Smoke production rate (m²/s)



Specific extinction area (m²/kg)



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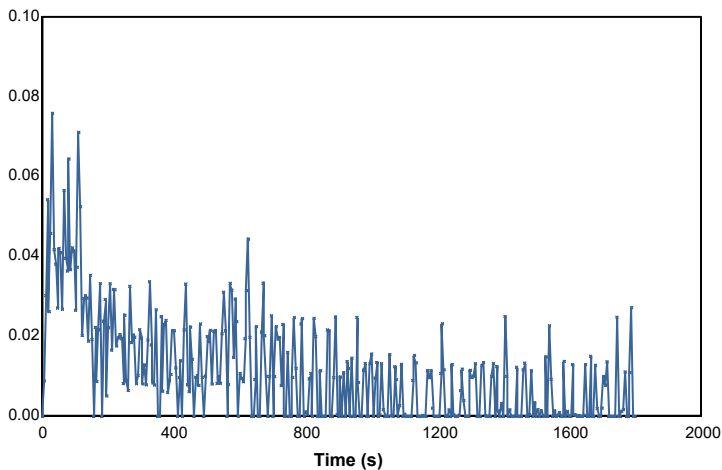
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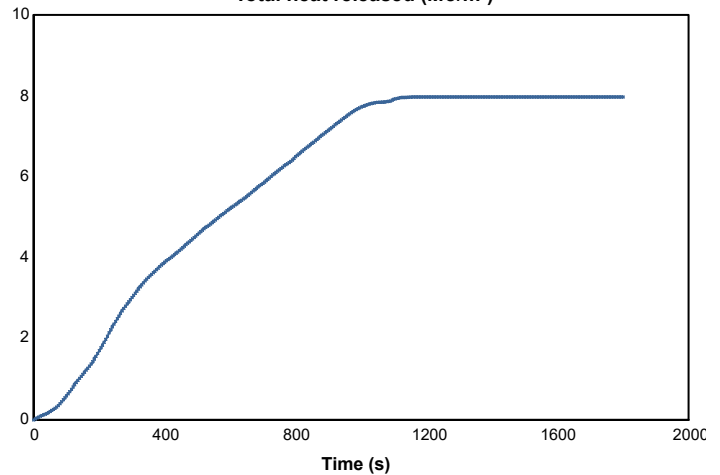
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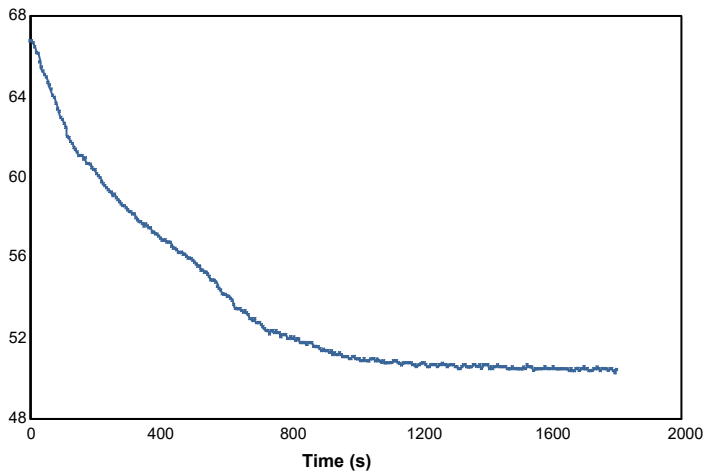
Mass loss rate (g/s)



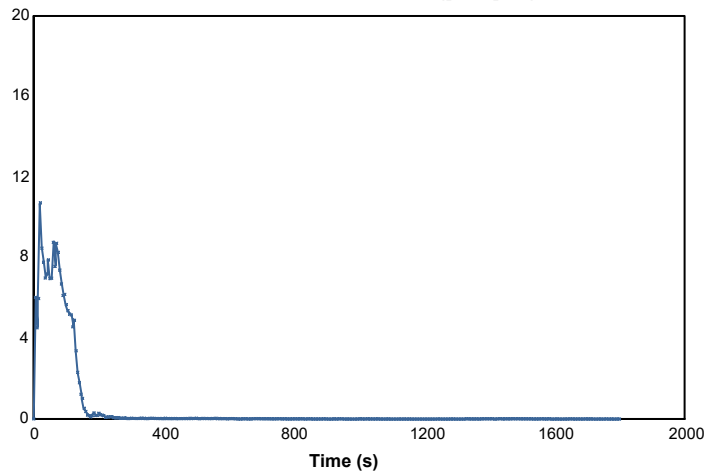
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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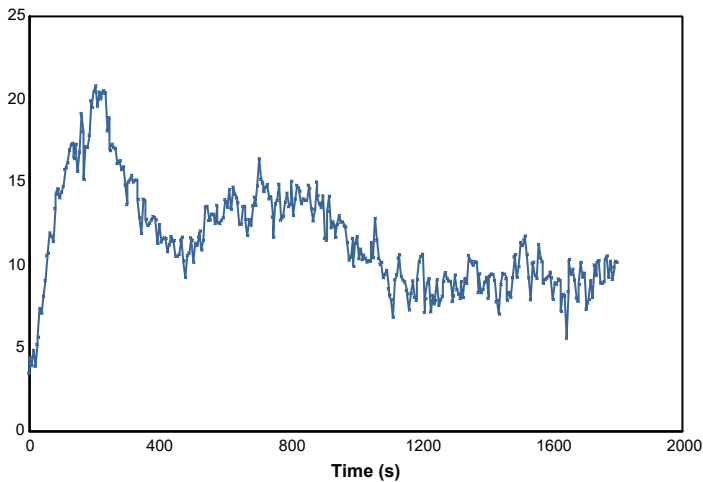
TEST REPORT

Client : Armacell (Guangzhou) Ltd
Guangqiao, Shilou Town Panyu District
Guangzhou City, Guangdong Province 511447 China
China

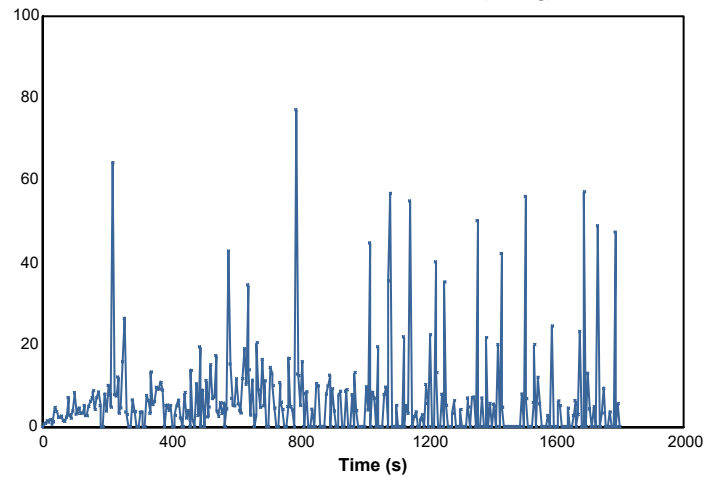
Test Number : 21-000816
Issue Date : 19/03/2021
Print Date : 22/03/2021

Specimen : 5

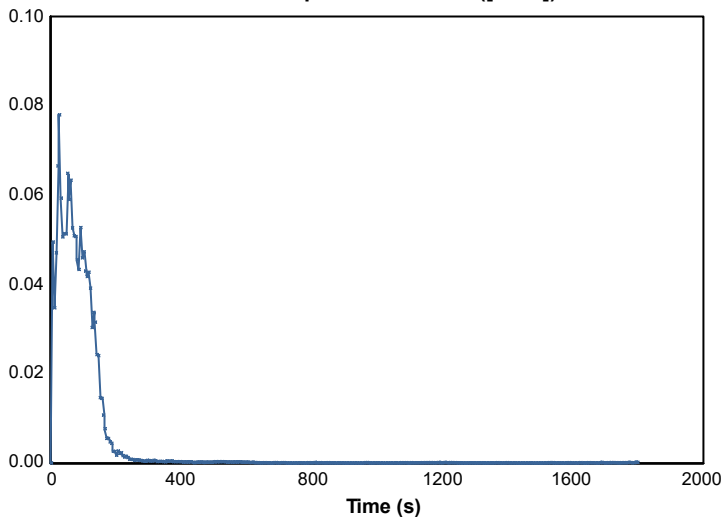
Heat release rate (kW/m²)



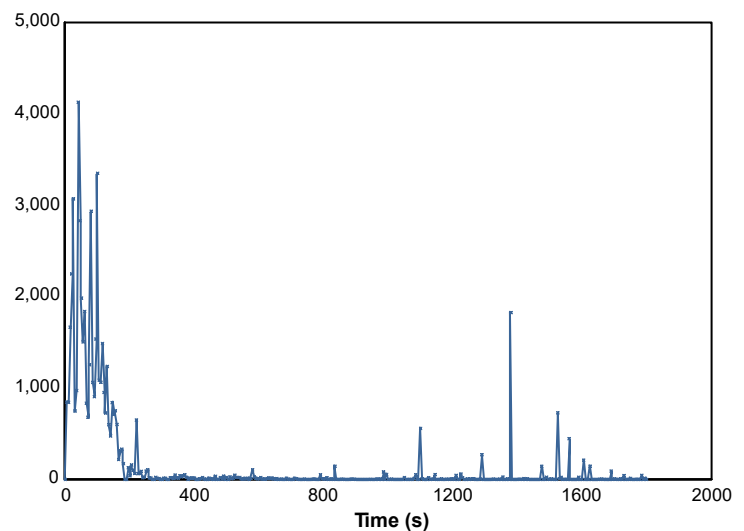
Effective heat of combustion (MJ/kg)



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

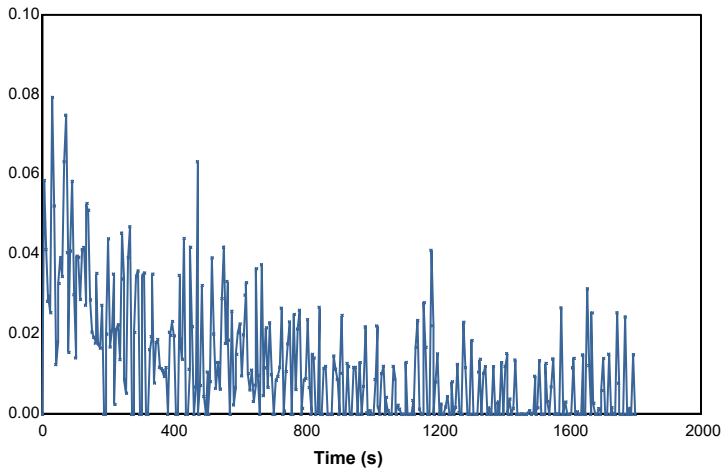
Phone (03) 9371 2400

TEST REPORT

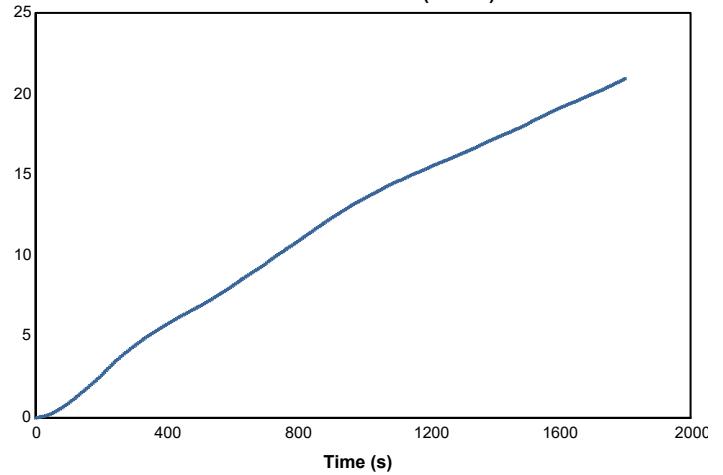
Client : Armacell (Guangzhou) Ltd
Guangqiao, Shilou Town Panyu District
Guangzhou City, Guangdong Province 511447 China
China

Test Number : 21-000816
Issue Date : 19/03/2021
Print Date : 22/03/2021

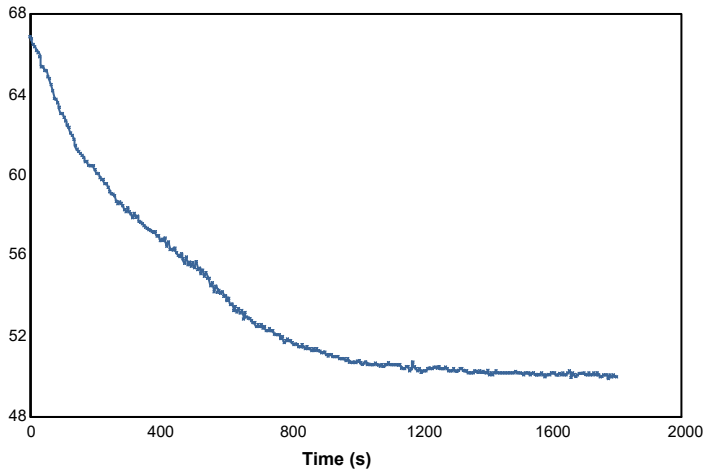
Mass loss rate (g/s)



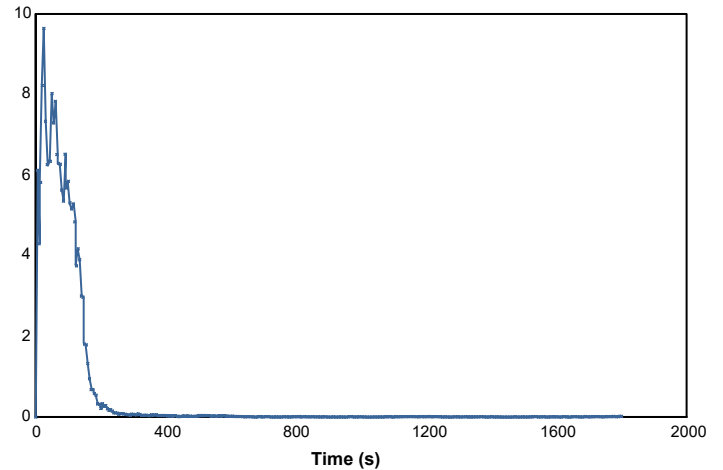
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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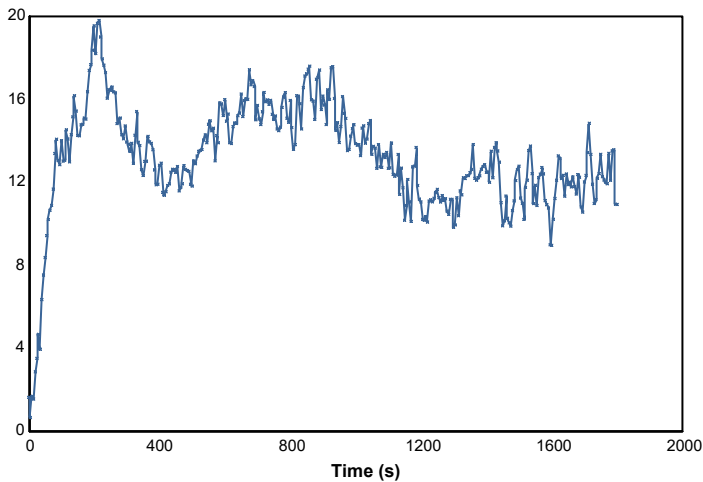
TEST REPORT

Client : Armacell (Guangzhou) Ltd
Guangqiao, Shilou Town Panyu District
Guangzhou City, Guangdong Province 511447 China
China

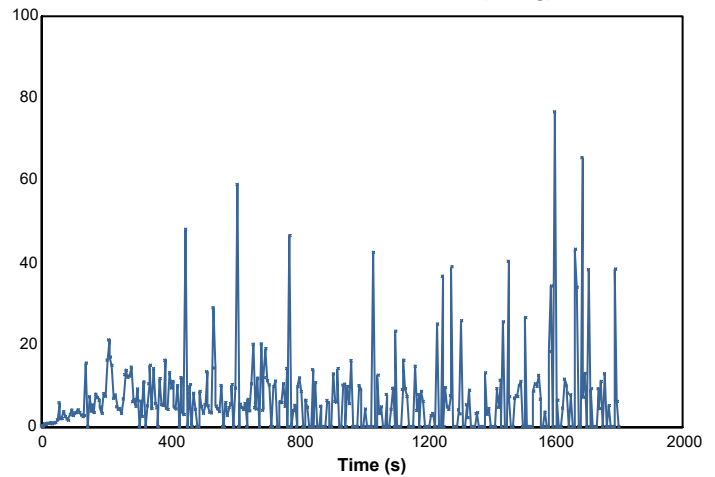
Test Number : 21-000816
Issue Date : 19/03/2021
Print Date : 22/03/2021

Specimen : 6

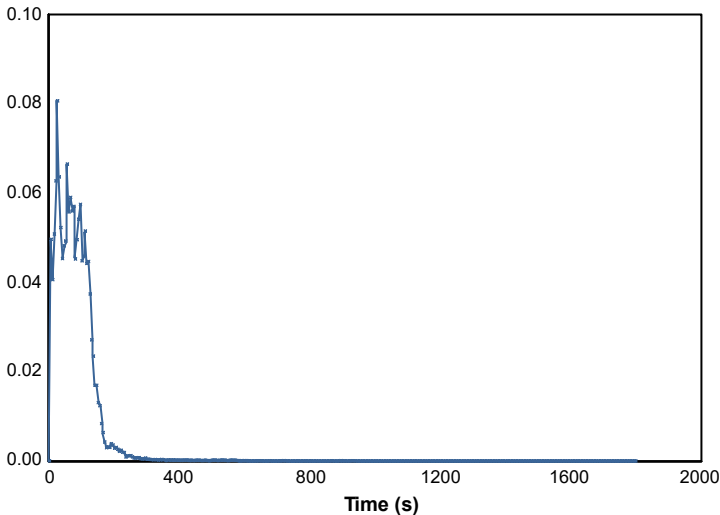
Heat release rate (kW/m²)



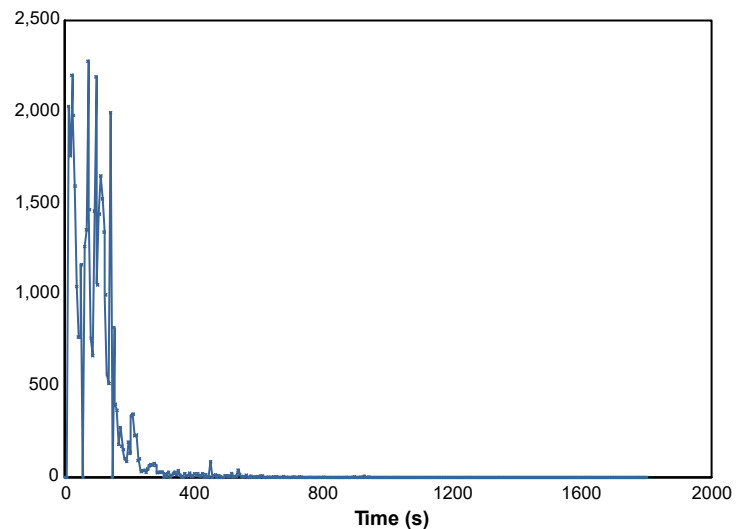
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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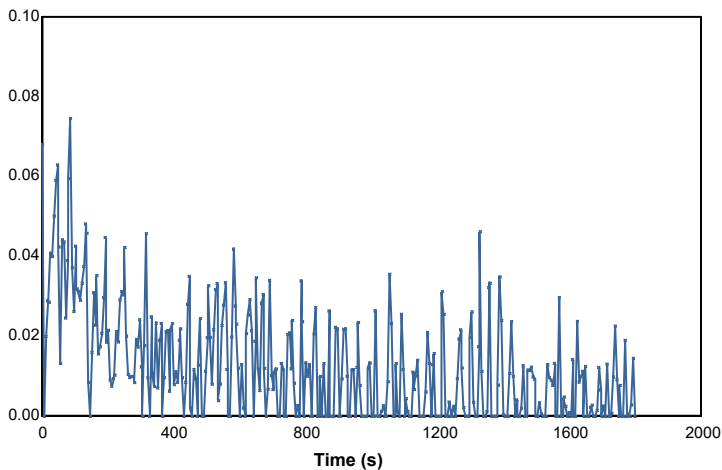
Phone (03) 9371 2400

TEST REPORT

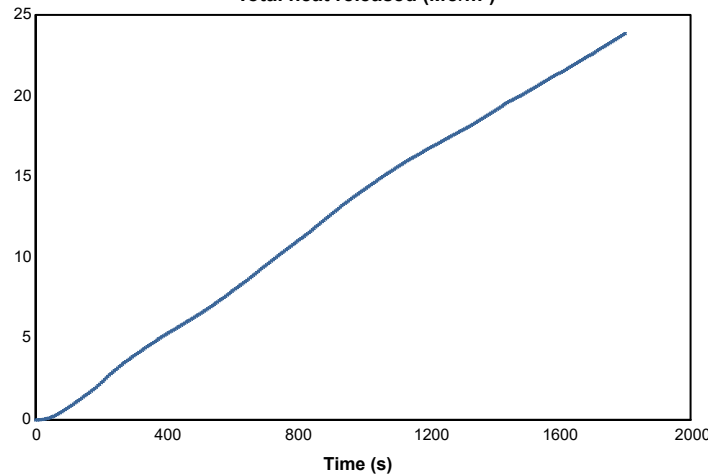
Client : Armacell (Guangzhou) Ltd
Guangqiao, Shilou Town Panyu District
Guangzhou City, Guangdong Province 511447 China
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Test Number : 21-000816
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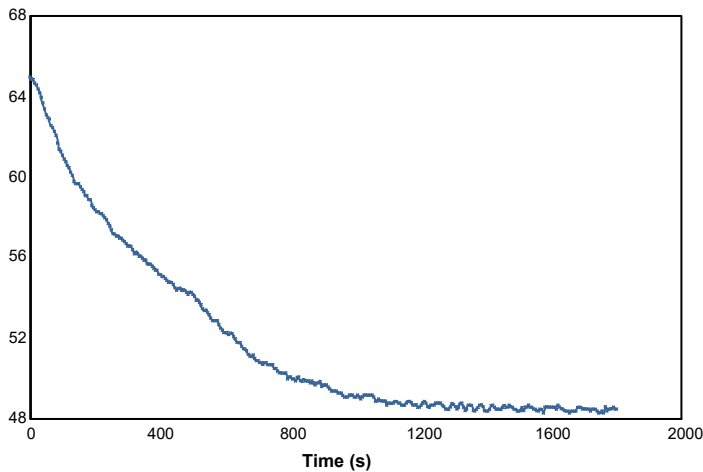
Mass loss rate (g/s)



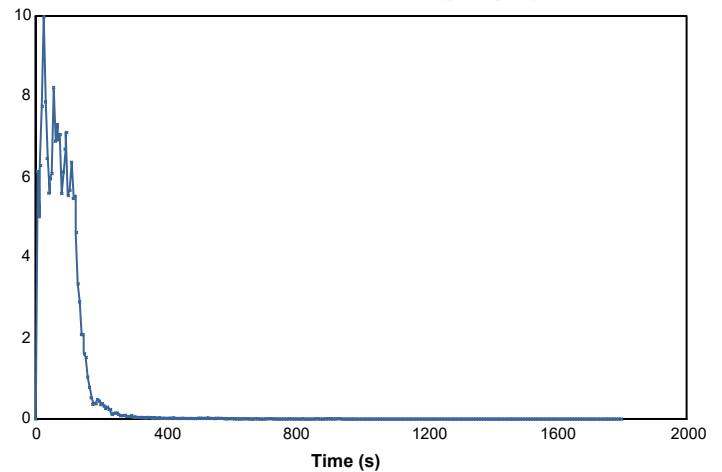
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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