

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 : Unique Fabrics
6 Mt Eden Road
Eden Terrace, Auckland New Zealand
New Zealand

Test Number : 19-006162
Issue Date : 26/11/2019
Print Date : 13/08/2020

Replacement of Initial Report dated :02/12/2019

Sample Description Clients Ref : "Type 03 Atelier,Artic Fever, Avalon, Curiosa, Figura, Focus, Galena, Lino, Mahlia, Mirage, Monsoon, New Heritage, Signature, Selva, Expedition"
Paperbacked vinyl wall covering
Nominal Composition : PVC on paper backing
Nominal Mass per Unit Area/Density : 605g/m2

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 26/11/2019
Face Tested Face

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	9.2	9.8	11.6	10.2	kW/m ²
Average Specific extinction area				59.3	

Test orientation : Horizontal

	Specimen				
	1	2	3	Mean	
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	5	4	8	6	sec
Test duration	1805	1804	1808	1806	sec
Peak heat release after ignition	91.6	173.1	113.4	126.0	kW/m ²
Average heat at 180 s	39.4	47.4	43.4	43.4	kW/m ²
Average heat at 300 s	30.7	35.1	33.3	33.0	kW/m ²
Total heat released	16.7	17.7	20.8	18.4	MJ/m ²
Average effective heat of combustion	7.0	6.9	8.3	7.4	MJ/kg

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APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)
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Initial thickness	11	11	11	11.0	mm
Initial mass	66.6	66.6	68.3	67.2	g
Mass at sustained flaming	66.1	66.6	68.3	67.0	g
Mass remaining	47.3	45.8	47.7	46.9	g
Mass loss	2385.3	2571.0	2545.4	2500.6	g/m ²
Average rate of mass loss	1.3	1.4	1.4	1.4	g/m ² .s
Total smoke Production (Non Flaming phase)	0.9	0.0	0.0	0.3	m ² /m ²
Total smoke Production (Flaming phase)	114.9	261.0	114.6	163.5	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	115.8	261.0	114.6	163.8	m ² /m ²
Specimen Surface area				-	
C-Factor (Calibration Constant)	0.039848	0.039848	0.039848	-	
Additional Observations	None				
Difficulties Encountered during Testing	None				

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 wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Samples were adhered to a substrate of 10mm thick plasterboard using Professional Ultra Clear PRO 880 wallcovering adhesive prior to testing.

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

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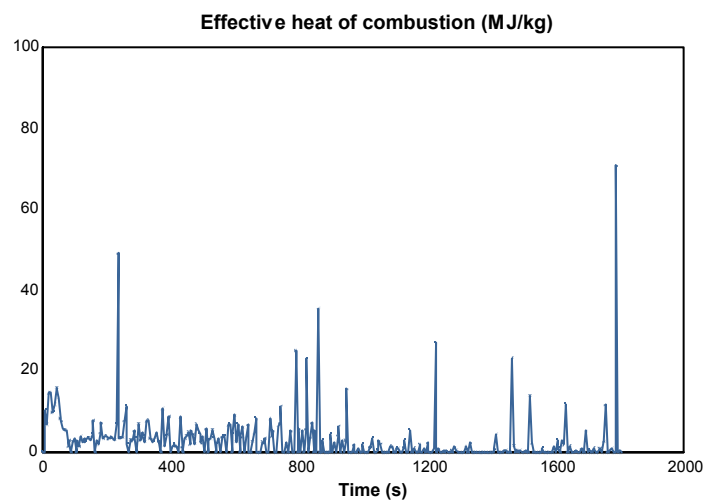
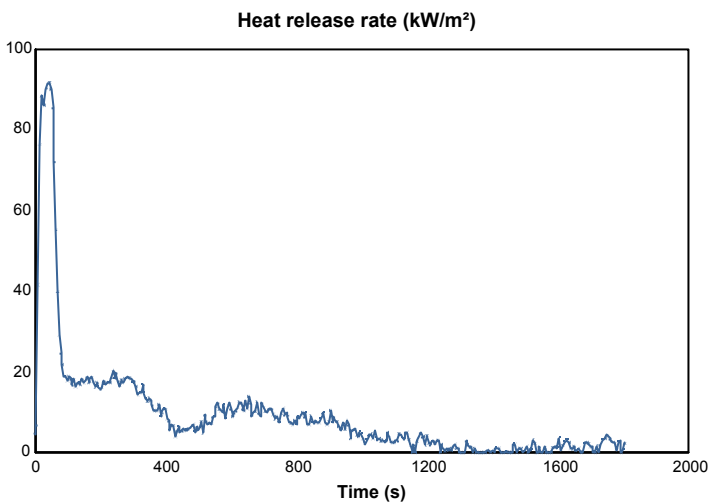
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Specimen : 1



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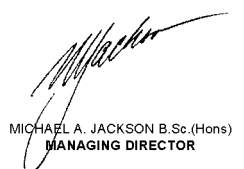
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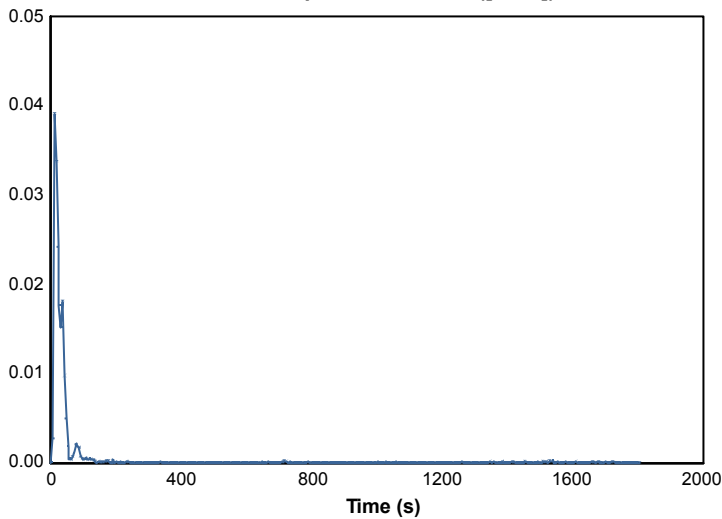
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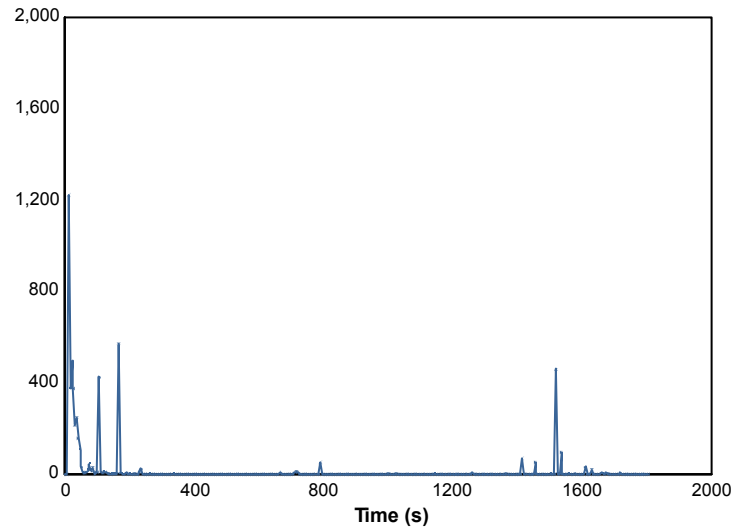
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Smoke production rate (m^2/s)



Specific extinction area (m^2/kg)



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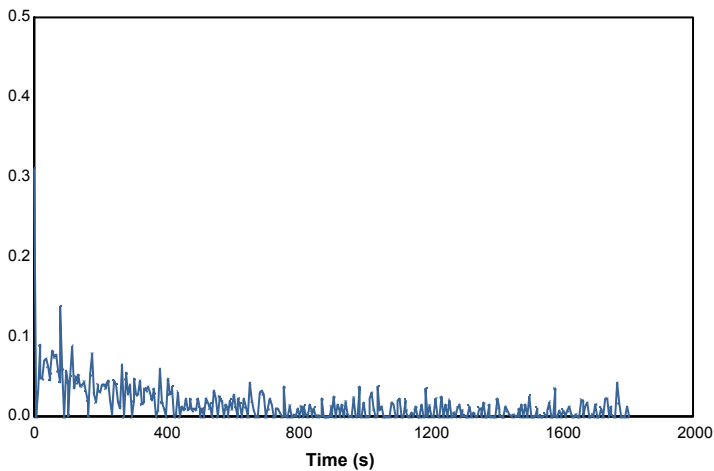
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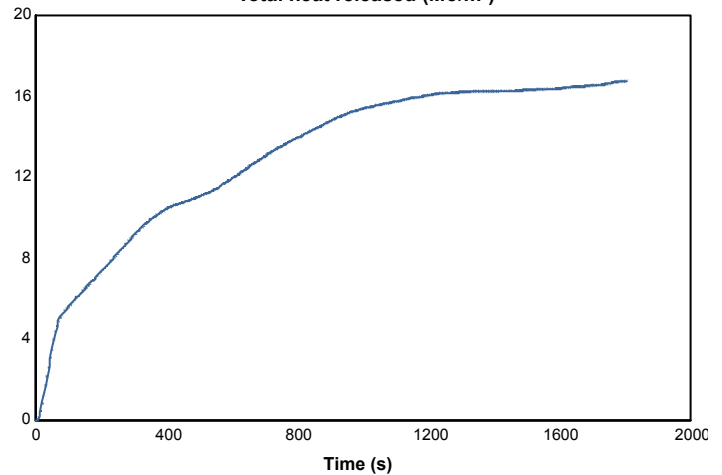
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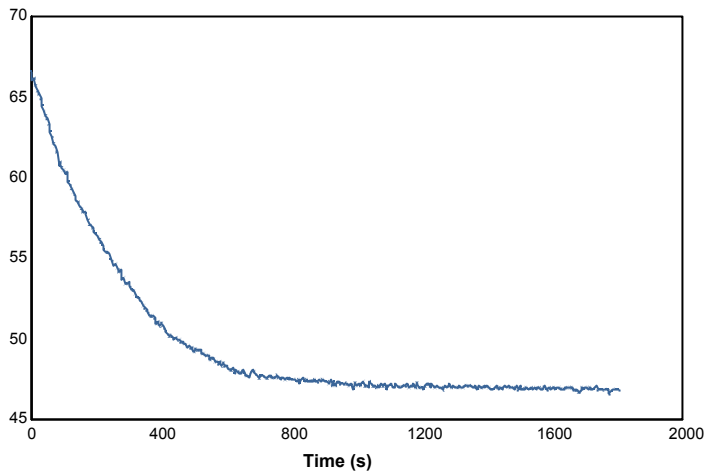
Mass loss rate (g/s)



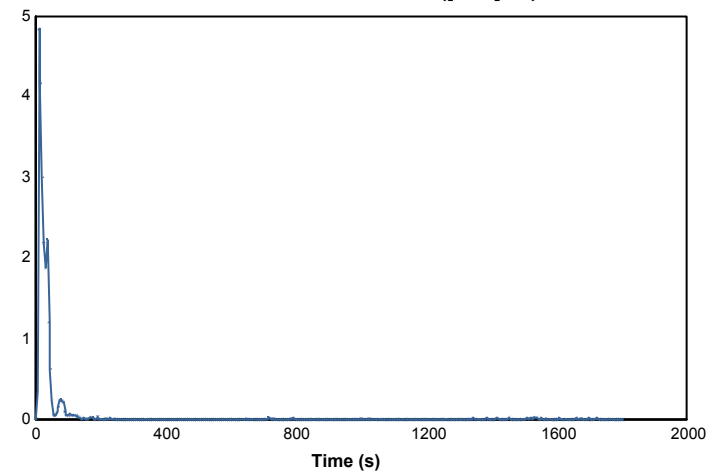
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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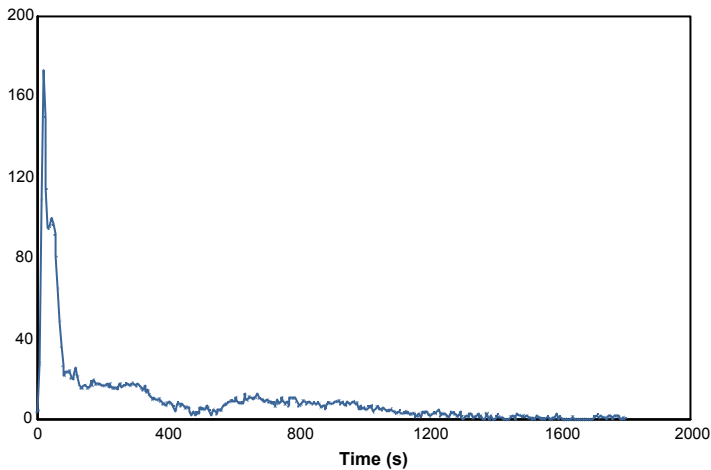
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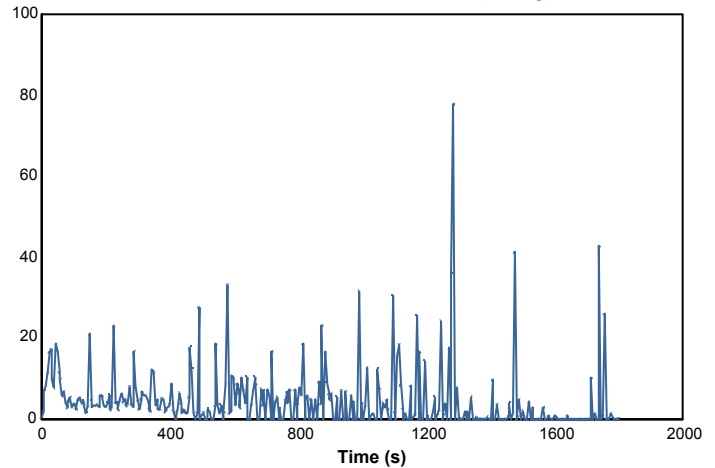
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Specimen : 2

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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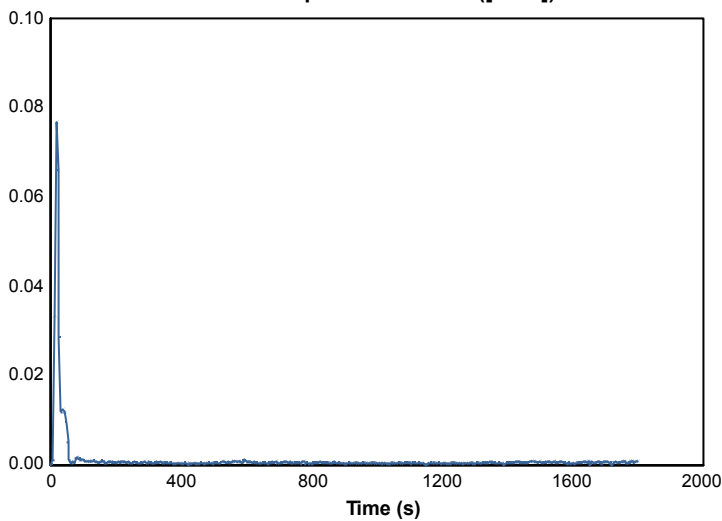
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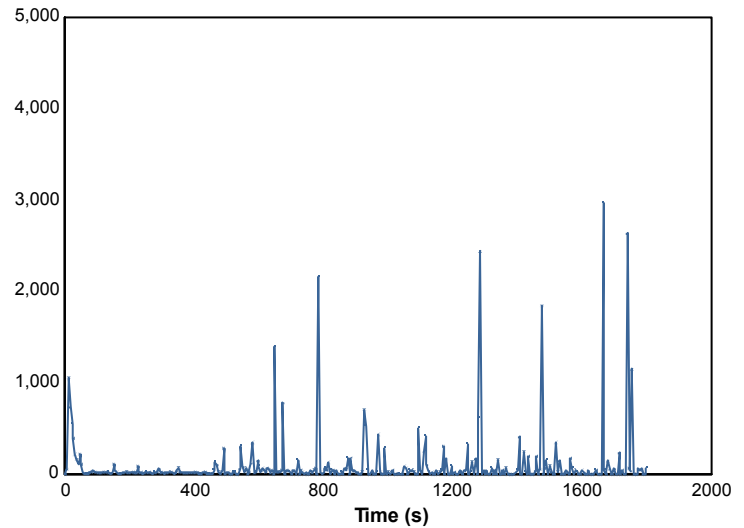
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Smoke production rate (m^2/s)



Specific extinction area (m^2/kg)



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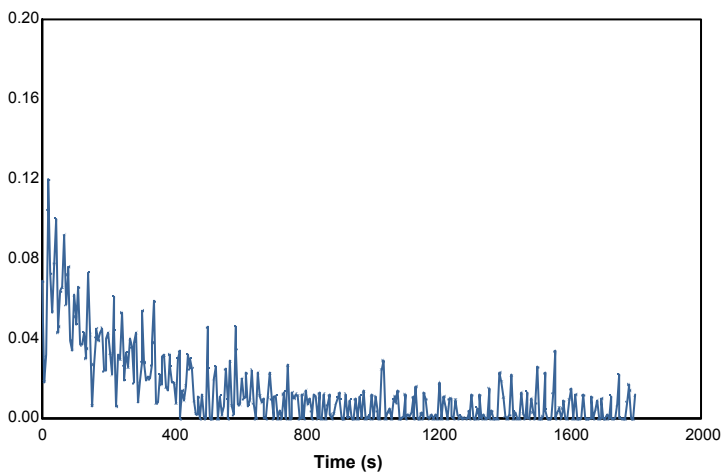
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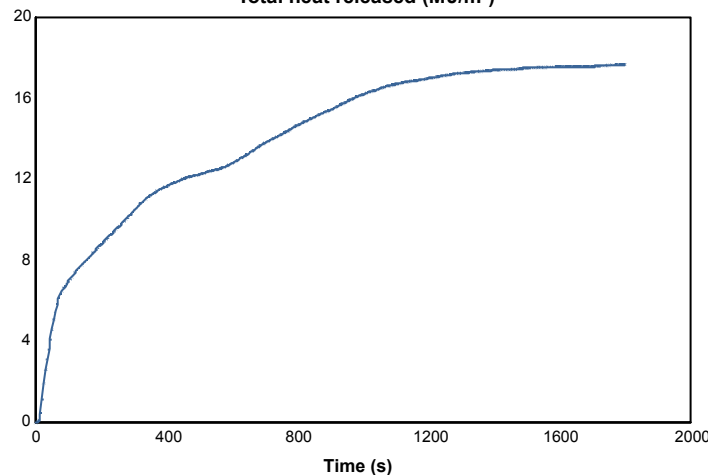
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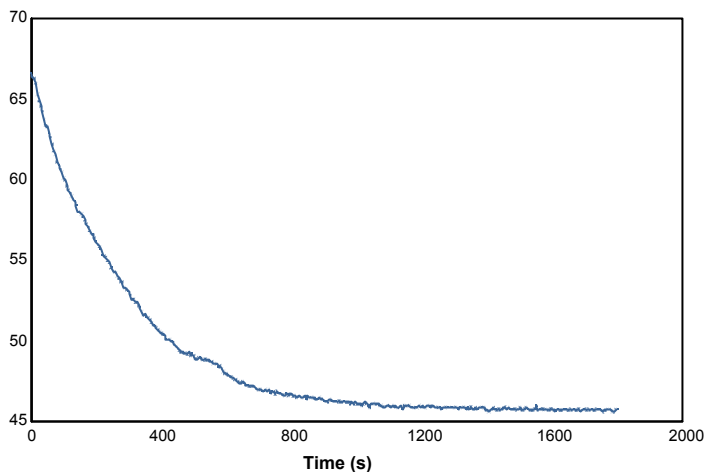
Mass loss rate (g/s)



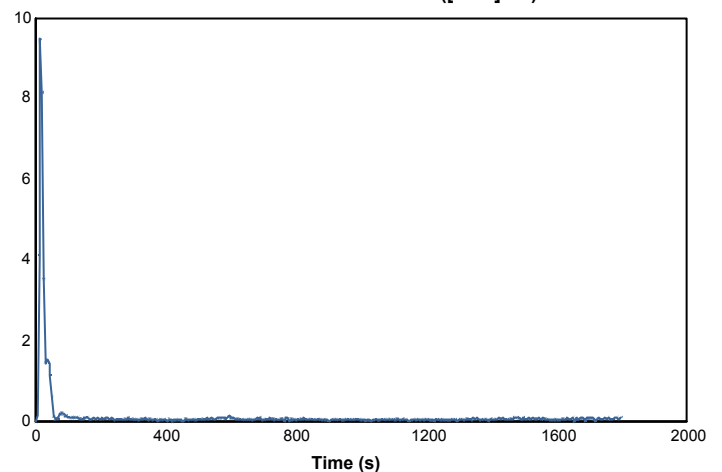
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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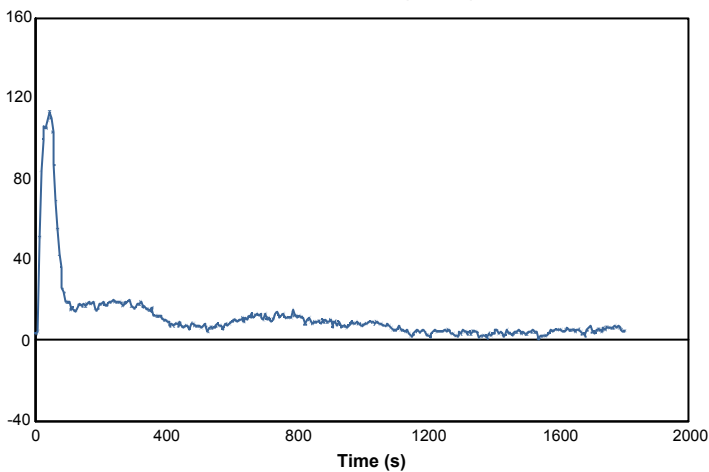
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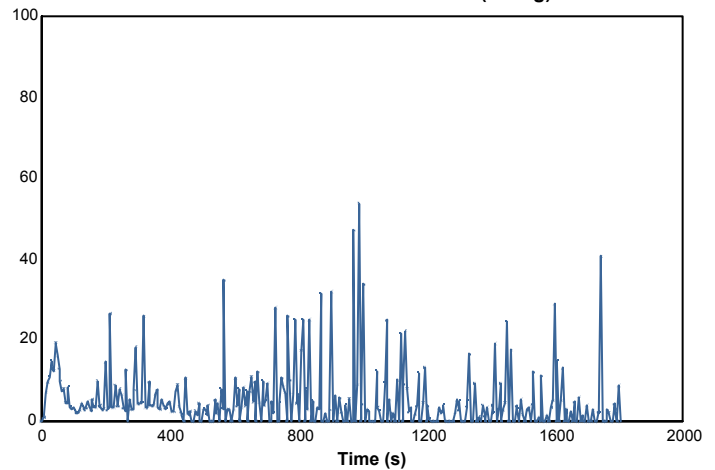
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Specimen : 3

Heat release rate (kW/m²)



Effective heat of combustion (MJ/kg)



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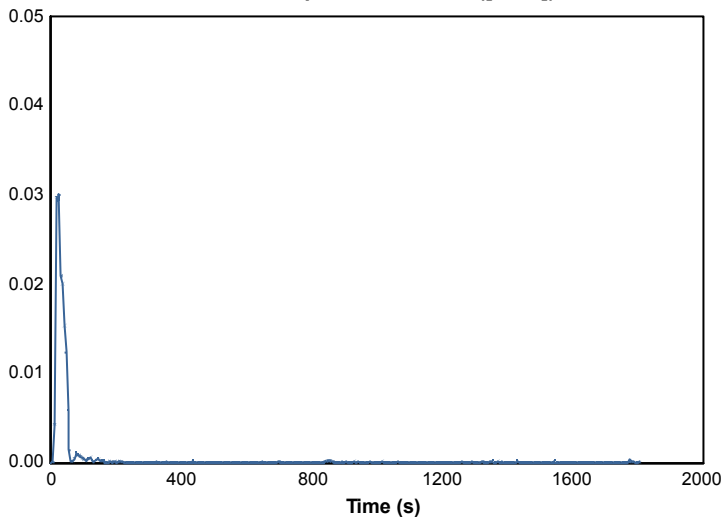
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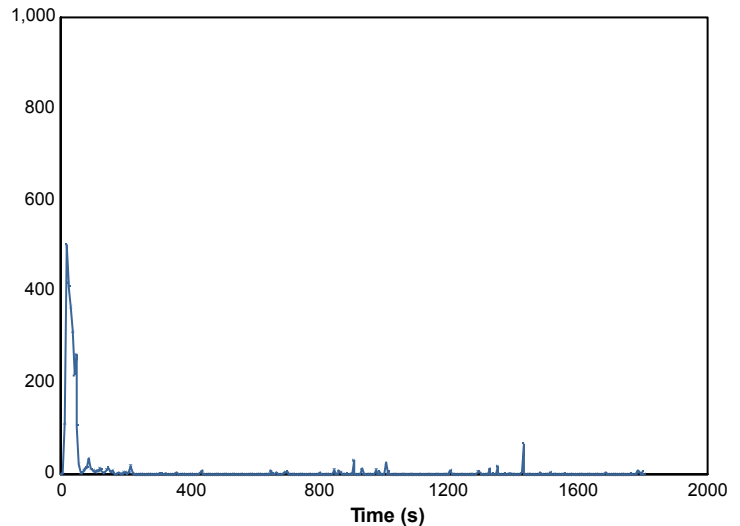
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Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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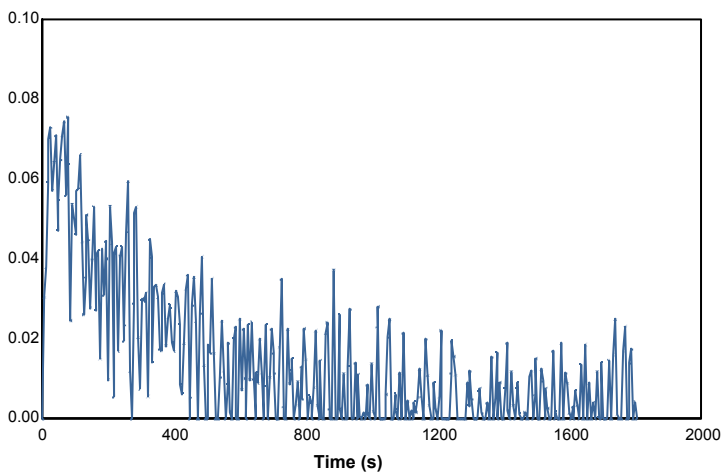
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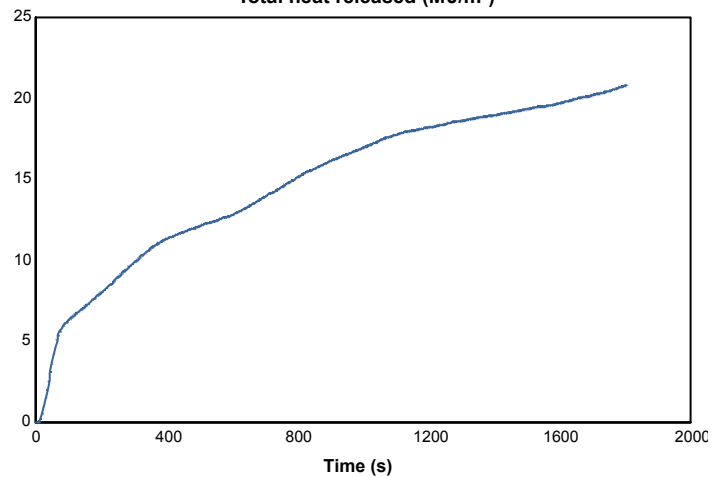
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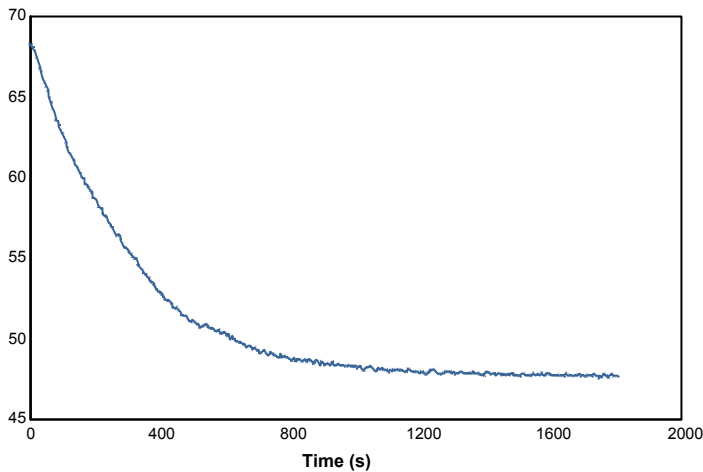
Mass loss rate (g/s)



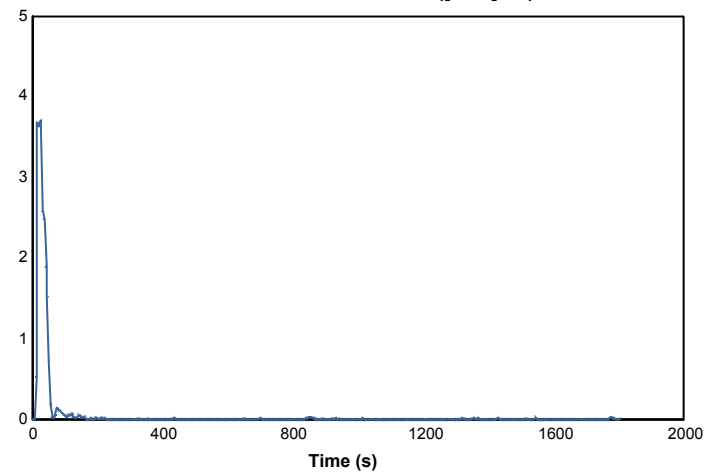
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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