

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 : NSW Leather Co Pty Ltd
16 Anderson Street
Banksmeadow NSW 2019

Test Number : 21-001209
Issue Date : 06/04/2021
Print Date : 10/05/2021

Sample Description Clients Ref : "Murano"
Leather sample
Colour : Olive
End Use : Wallcovering
Nominal Composition : Leather
Nominal Mass per Unit Area/Density : Approx 650g/m²
Nominal Thickness : Approx 1mm

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 01-04-2021
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	11.9	11.7	15.8	13.1	kW/m ²
Average Specific extinction area	15.2	27.4	17.7	20.1	m ² /kg

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	49	39	65	51	sec
Test duration	1849	1839	1865	1851	sec
Peak heat release after ignition	96.2	100.9	94.2	97.1	kW/m ²
Average heat at 180 s	50.5	49.4	45.9	48.6	kW/m ²
Average heat at 300 s	35.9	35.3	35.3	35.5	kW/m ²

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Fiona McDonald

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

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Total heat released	21.4	21.0	28.5	23.6	MJ/m ²
Average effective heat of combustion	9.3	8.1	13.4	10.3	MJ/kg
Initial thickness	7	7	7	7.0	mm
Initial mass	86.3	88.7	86.3	87.1	g
Mass at sustained flaming	85.4	88.1	84.5	86.0	g
Mass remaining	67.5	67.3	69.1	67.9	g
Mass loss	2321.2	2644.3	2128.8	2364.7	g/m ²
Average rate of mass loss	1.3	1.5	1.2	1.3	g/m ² .s
Total smoke Production (Non Flaming phase)	34.6	19.5	137.6	63.9	m ² /m ²
Total smoke Production (Flaming phase)	43.5	81.1	41.1	55.2	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	78.1	100.6	178.7	119.1	m ² /m ²
Specimen Surface area				-	
C-Factor (Calibration Constant)	0.043007	0.042945	0.043007	-	
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

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

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.

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.

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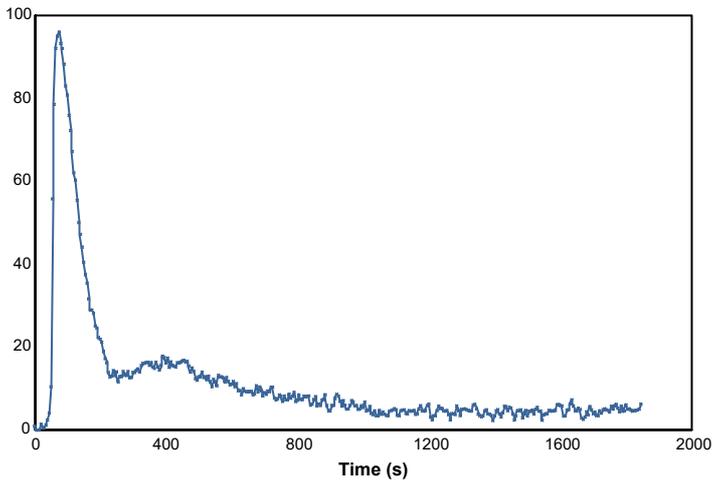
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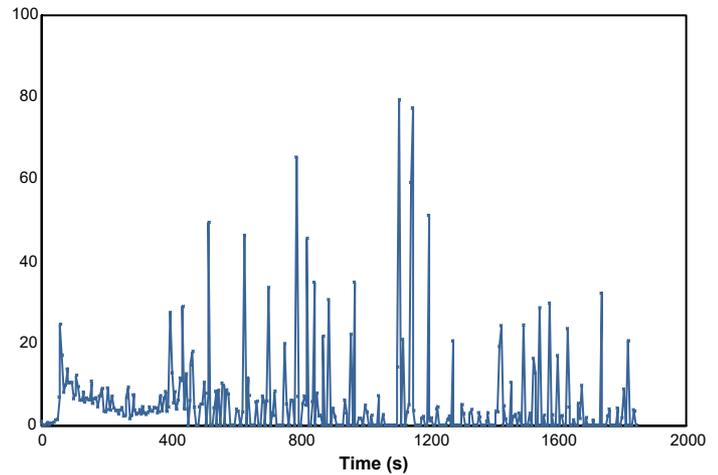
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Specimen : 1

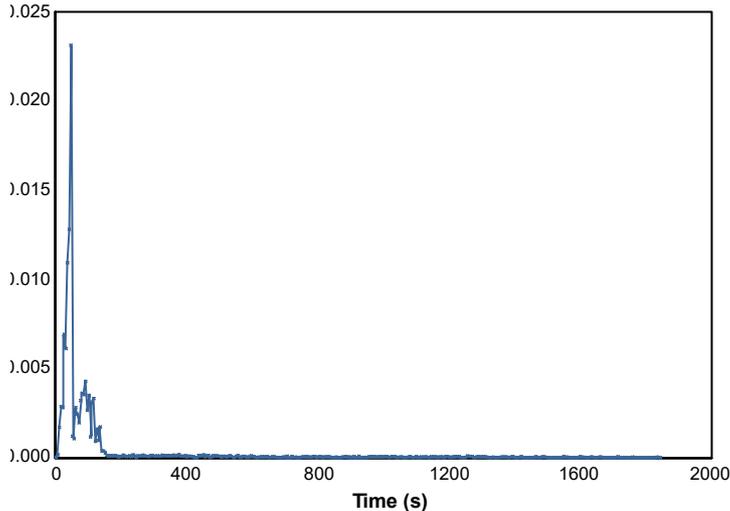
Heat release rate (kW/m²)



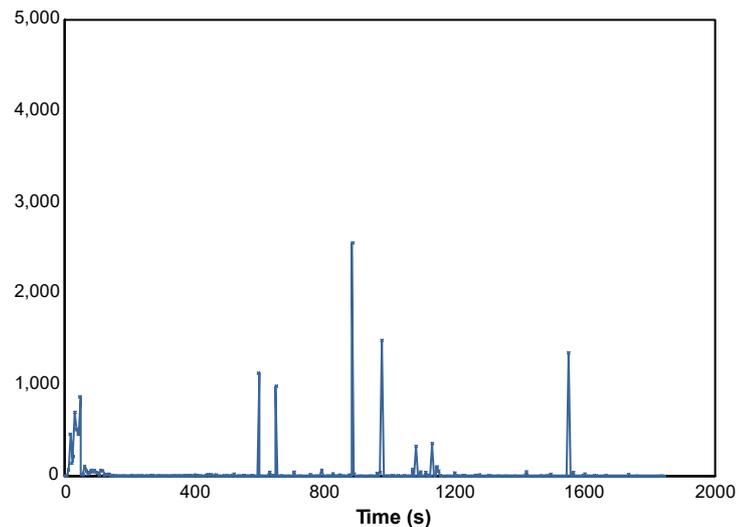
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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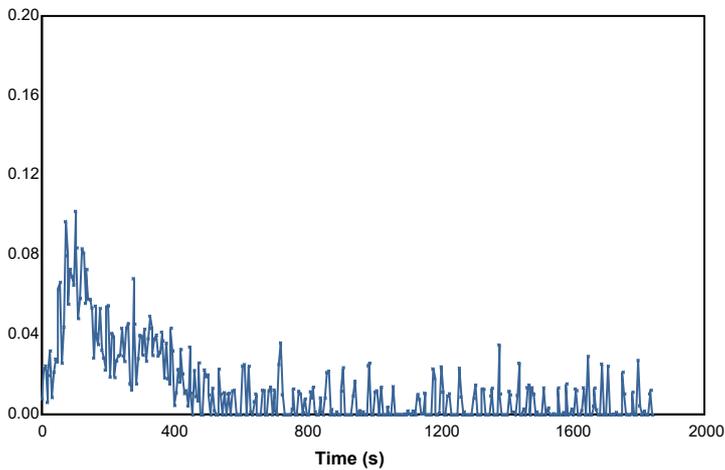
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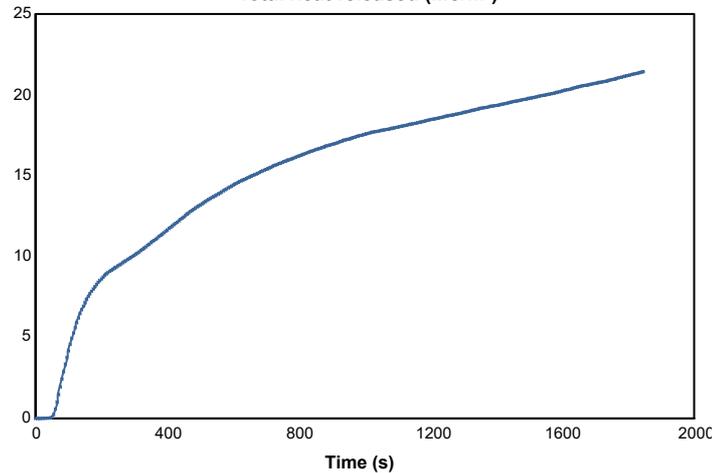
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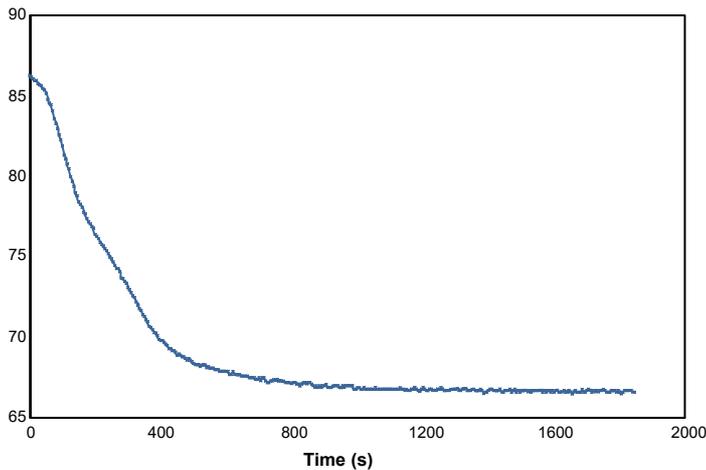
Mass loss rate (g/s)



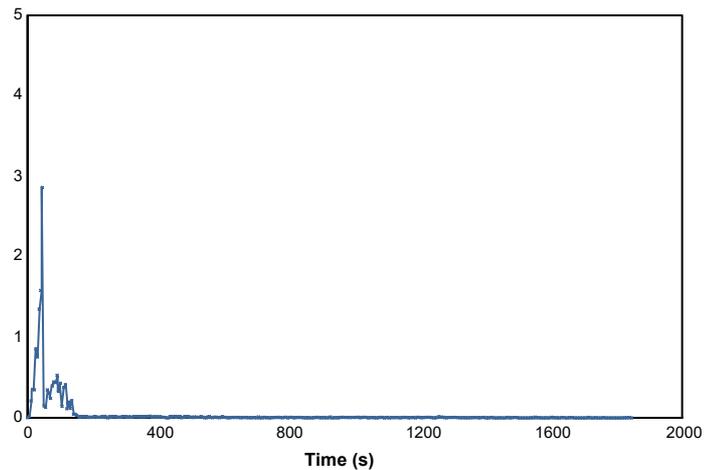
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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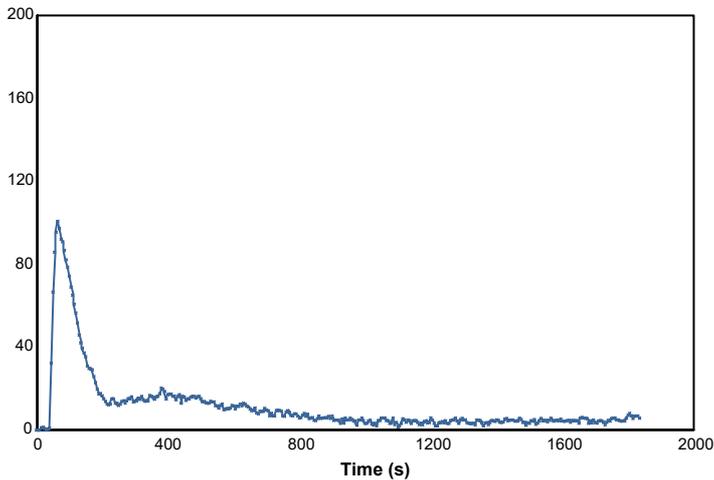
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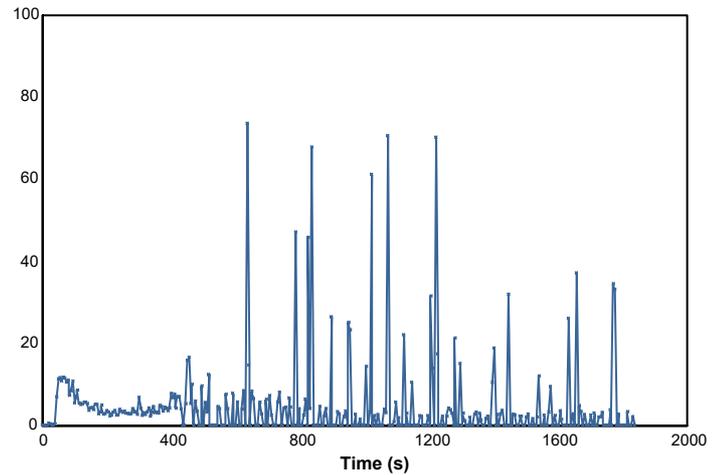
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Specimen : 2

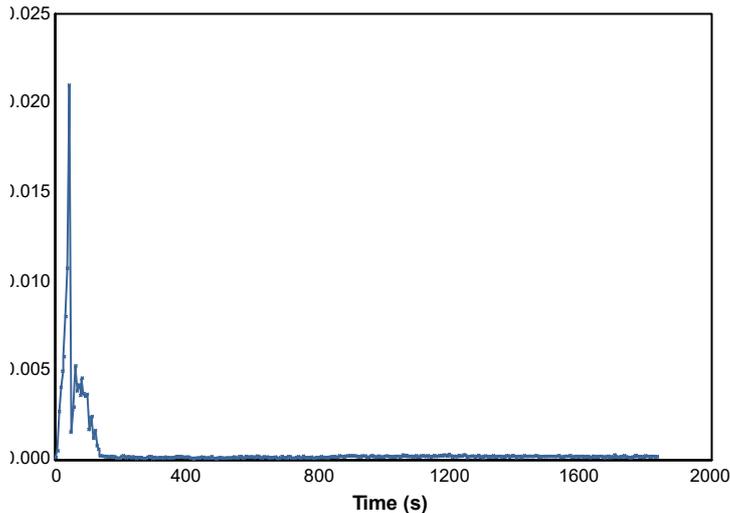
Heat release rate (kW/m²)



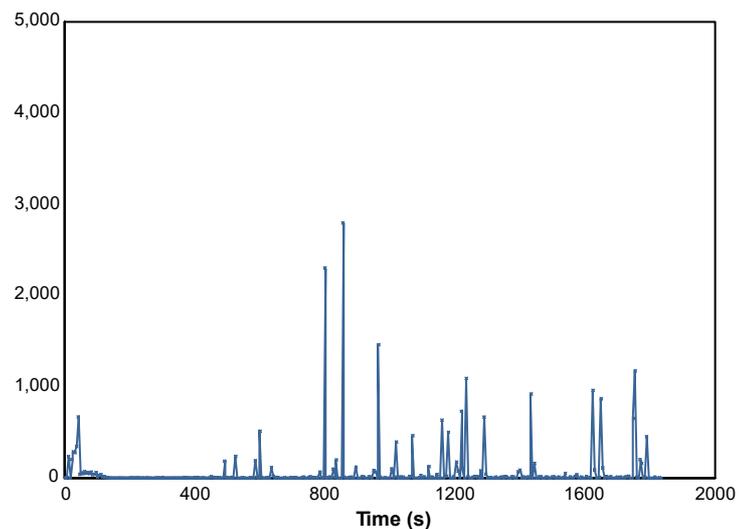
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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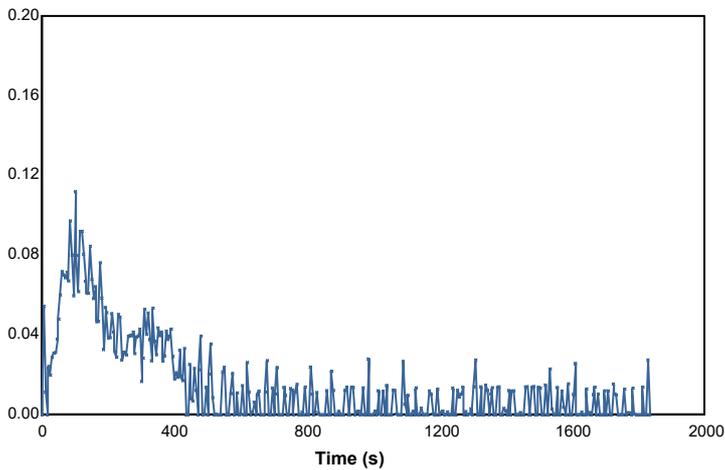
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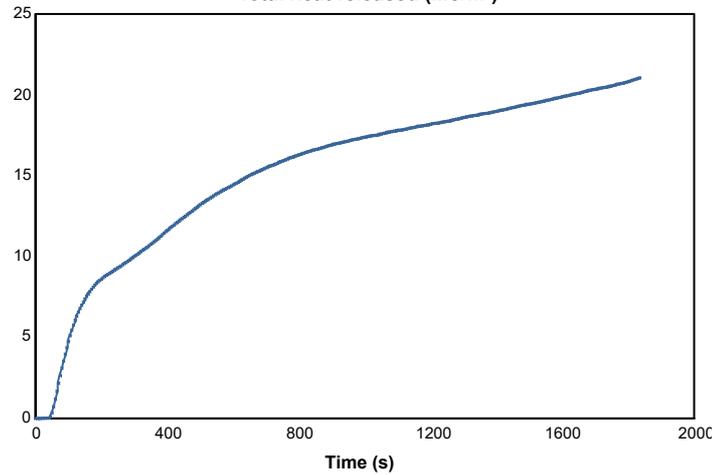
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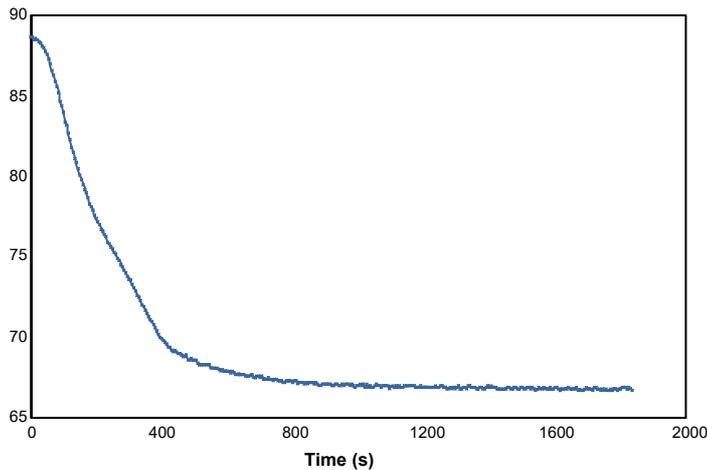
Mass loss rate (g/s)



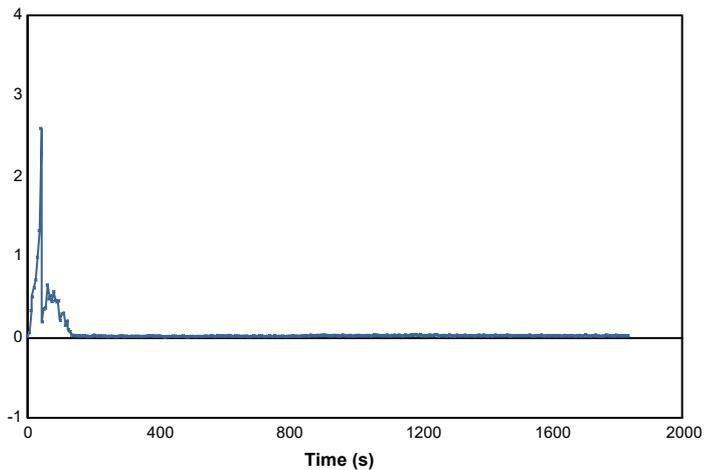
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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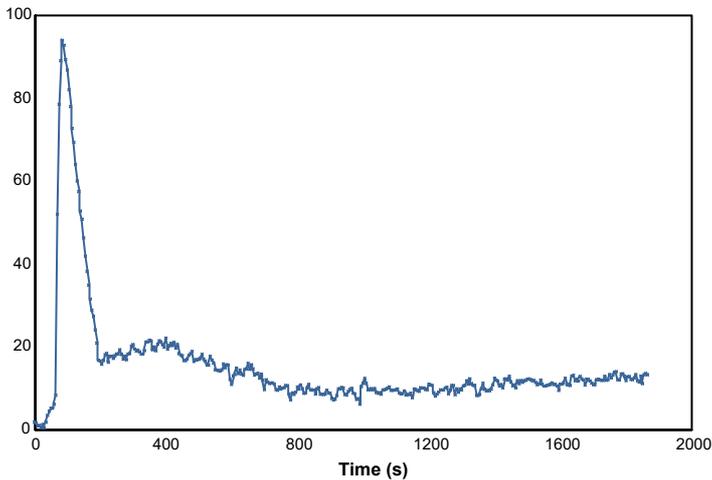
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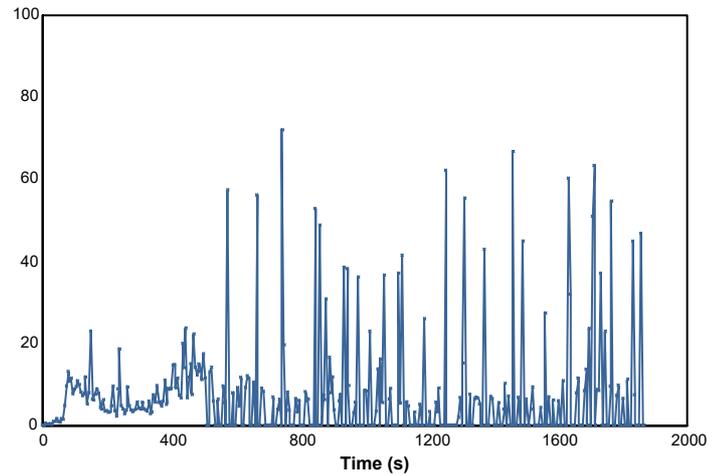
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Specimen : 3

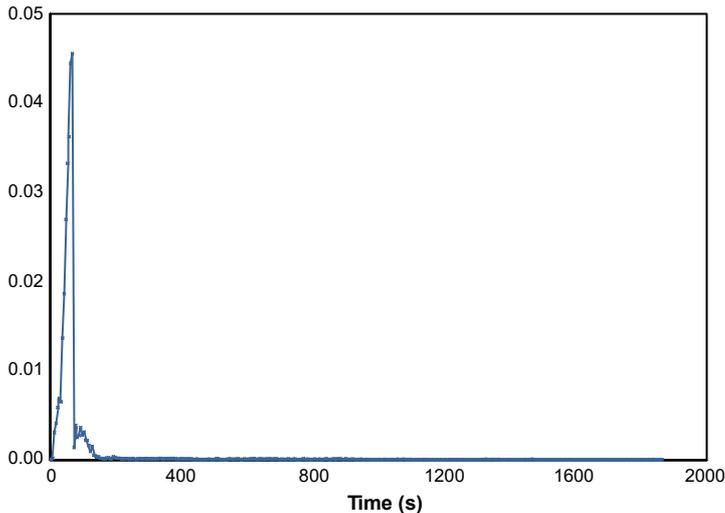
Heat release rate (kW/m²)



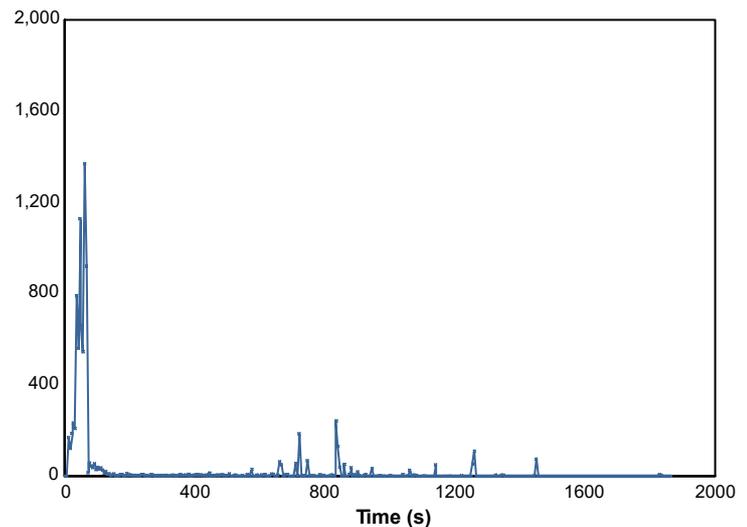
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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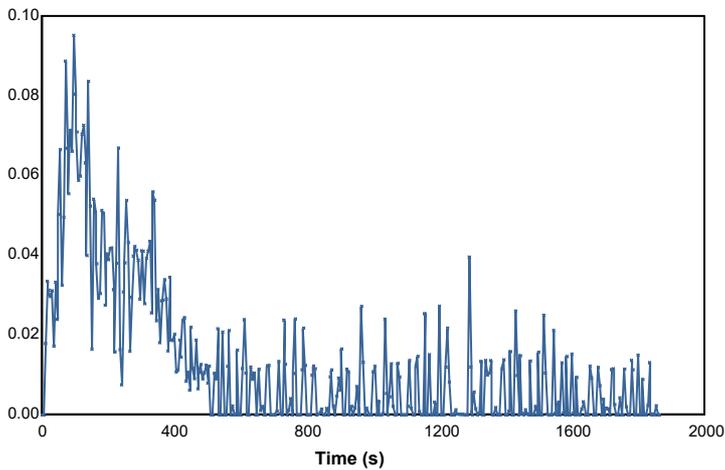
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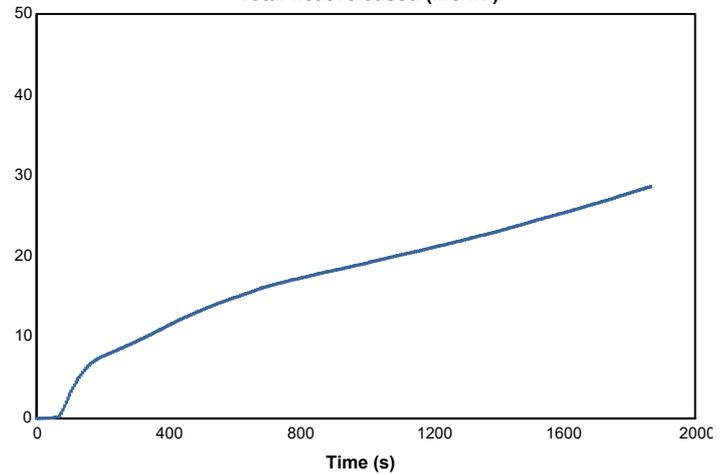
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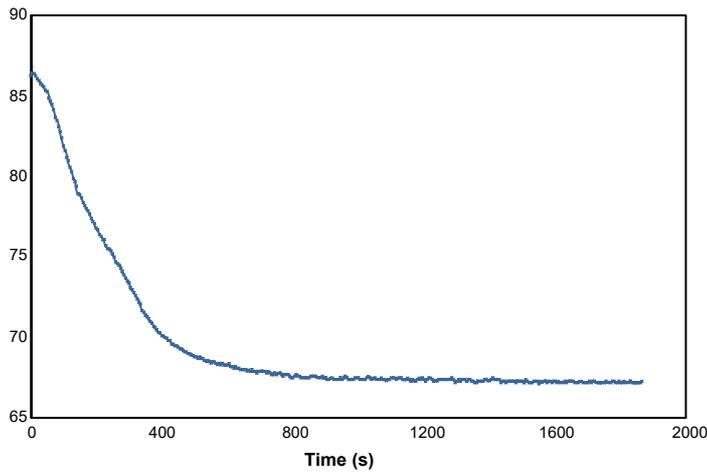
Mass loss rate (g/s)



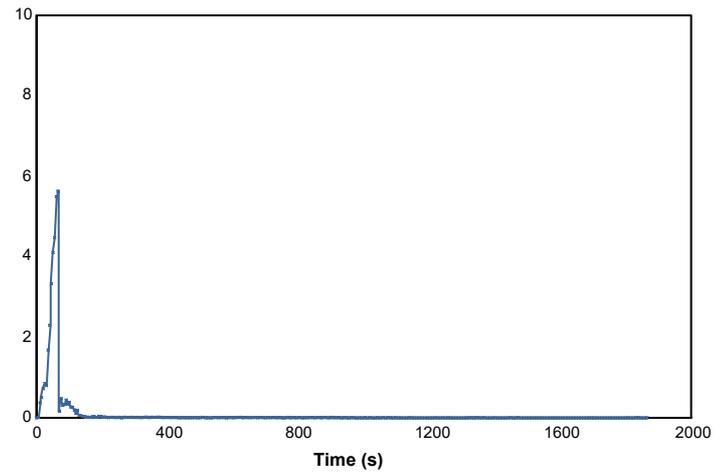
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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