

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

Group Number Assessment

(In accordance with AS 5637.1-2015)

This is to confirm that the product as described below has been tested by AWTA Product Testing .

Testing was performed in accordance with AS/NZS 3837-1998 Method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

As per AS 5637.1 Clause 9(n) it was valid to test this particular material / system in the cone calorimeter for the assignment of a NCC Group Number.

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

Test Number : 21-004552
Issue Date : 13/09/2021
Print Date : 13/09/2021

Sponsor Product Clients Ref : "Manila 73080 (Type 1)"
Wallpaper on non-woven backing
Colour : Sand
End Use : Wall Covering
Nominal Mass per Unit Area/Density : 160g/m2
Nominal Thickness : Approx 0.5mm

Product Group Number Classification : 1

Average Specific Extinction Area : 36.1 m²/kg



Fiona McDonald
Testing Technologist

54031

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TEST REPORT

Client : Unique Fabrics
6 Mt Eden Road
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New Zealand

Test Number : 21-004553
Issue Date : 09/09/2021
Print Date : 13/09/2021

Sample Description Clients Ref : "Manila 73080 (Type 1)"
Wallpaper on non woven baking
Colour : Sand
End Use : Wall Covering
Nominal Mass per Unit Area/Density : 160g/m2
Nominal Thickness : 0.5mm

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 08-09-2021
Face Tested FACE

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	5.1	8.0	8.4	7.2	kW/m ²
Average Specific extinction area	18.7	24.7	14.8	19.4	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	27	25	28	27	sec
Test duration	1827	1825	1828	1827	sec
Peak heat release after ignition	147.2	133.5	136.6	139.1	kW/m ²
Average heat at 180 s	38.8	40.5	40.6	40.0	kW/m ²
Average heat at 300 s	24.1	26.9	26.2	25.7	kW/m ²
Total heat released	9.9	14.4	15.1	13.1	MJ/m ²

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

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Average effective heat of combustion	4.7	7.3	7.7	6.6	MJ/kg
Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	58.9	58.7	58.7	58.8	g
Mass at sustained flaming	58.7	58.5	58.6	58.6	g
Mass remaining	43.2	42.8	42.9	43.0	g
Mass loss	1936.9	1963.4	1950.9	1950.4	g/m ²
Average rate of mass loss	1.1	1.1	1.1	1.1	g/m ² .s
Total smoke Production (Non Flaming phase)	5.1	4.8	3.6	4.5	m ² /m ²
Total smoke Production (Flaming phase)	50.1	51.2	39.3	46.9	m ² /m ²
Total smoke Production (Non Flaming & Flaming phase)	55.2	56.0	42.9	51.4	m ² /m ²
Specimen Surface area				-	
C-Factor (Calibration Constant)	0.035073	0.035073	0.035073	-	
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

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 Roberts 656 wallcovering adhesive prior to testing.

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: All calculations are based on ignition + 30 minutes.

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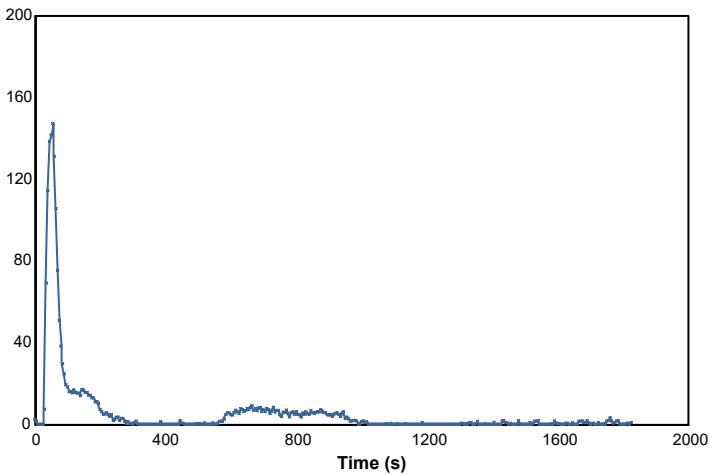
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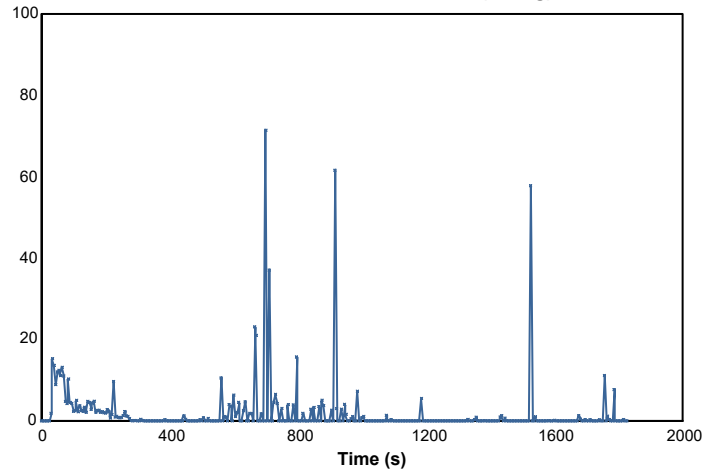
Test Number : 21-004553
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Specimen : 1

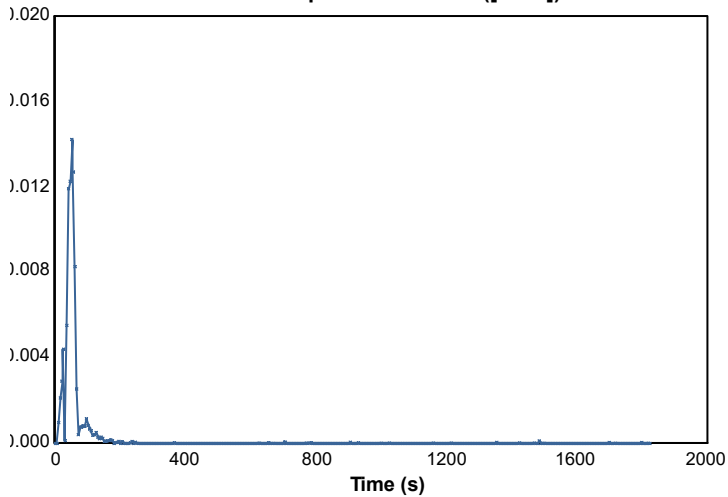
Heat release rate (kW/m²)



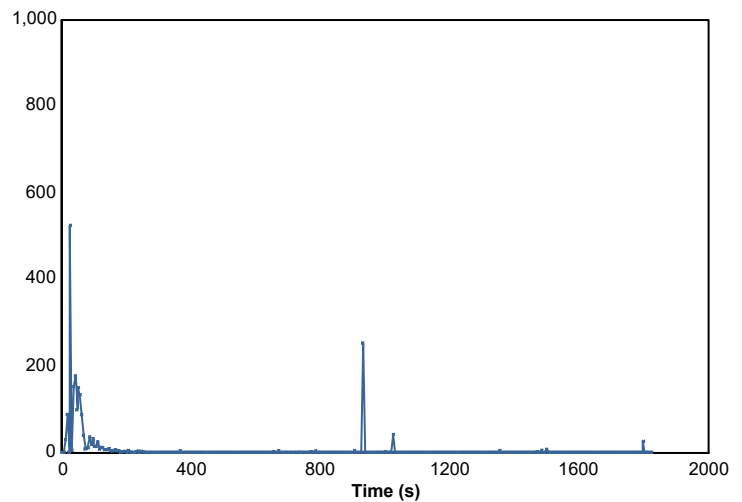
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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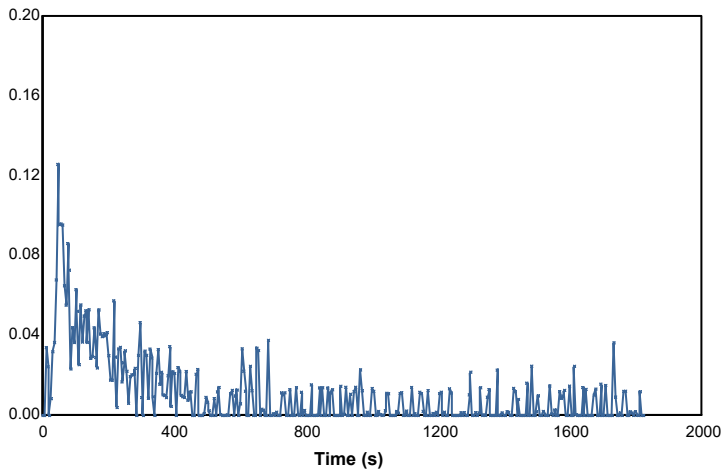
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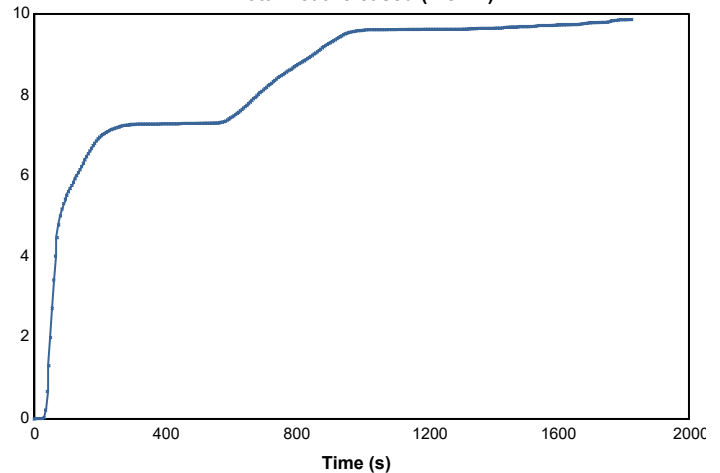
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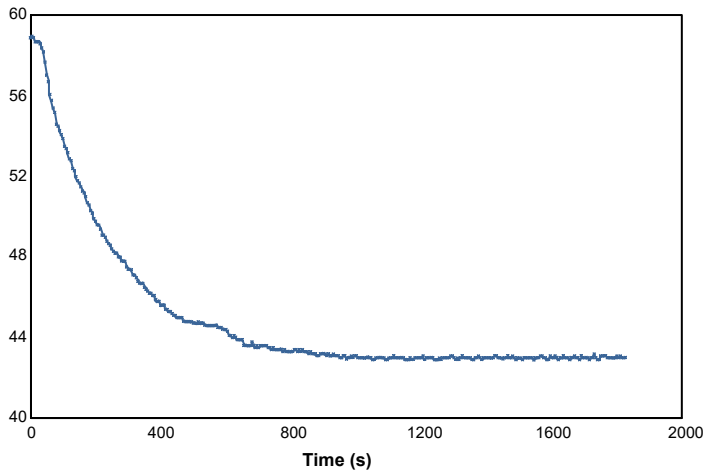
Mass loss rate (g/s)



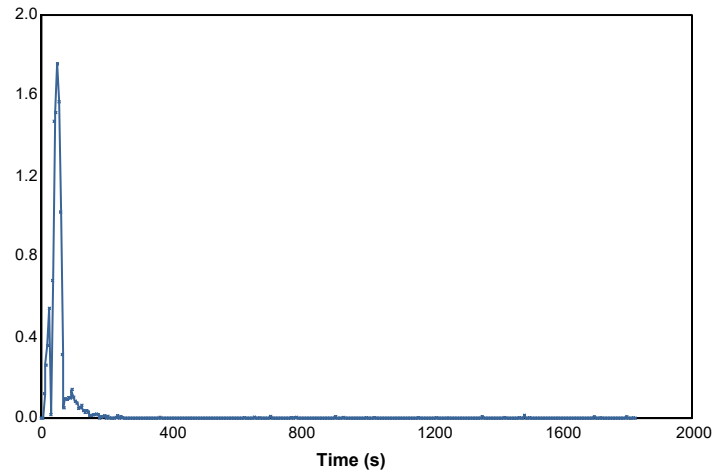
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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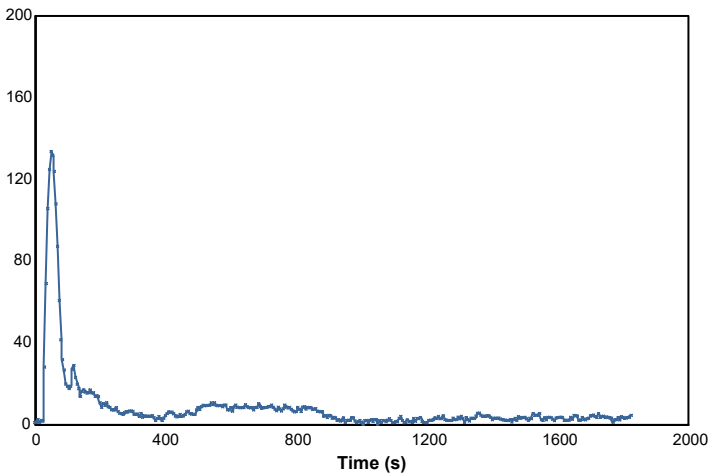
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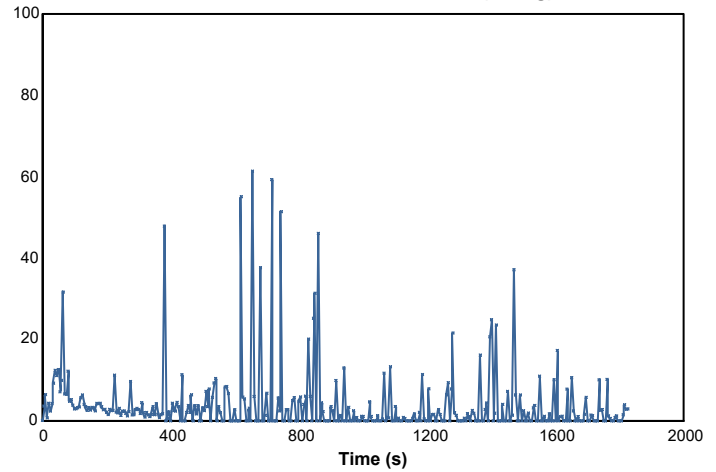
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Specimen : 2

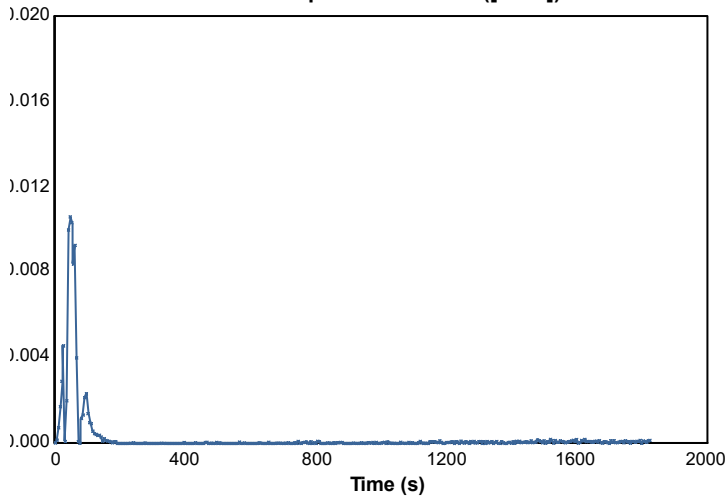
Heat release rate (kW/m²)



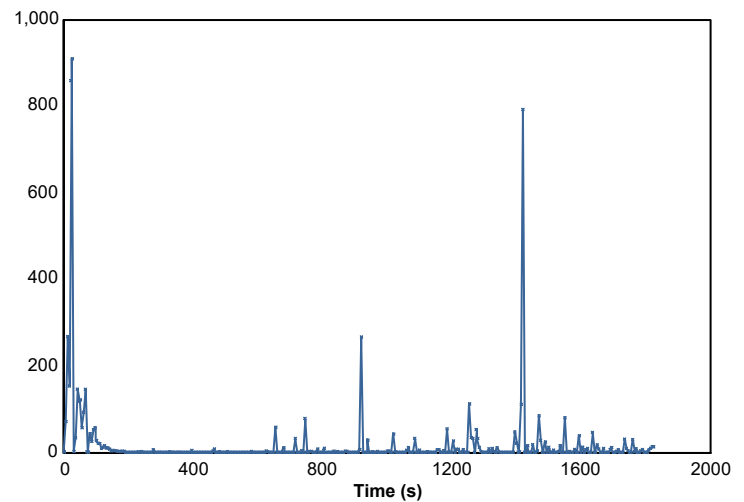
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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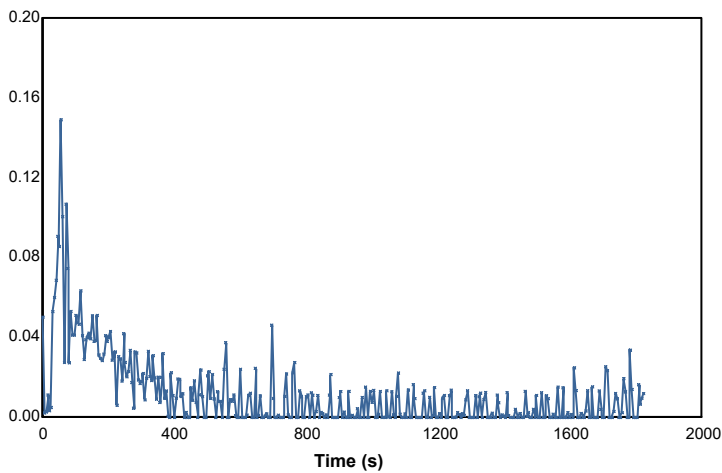
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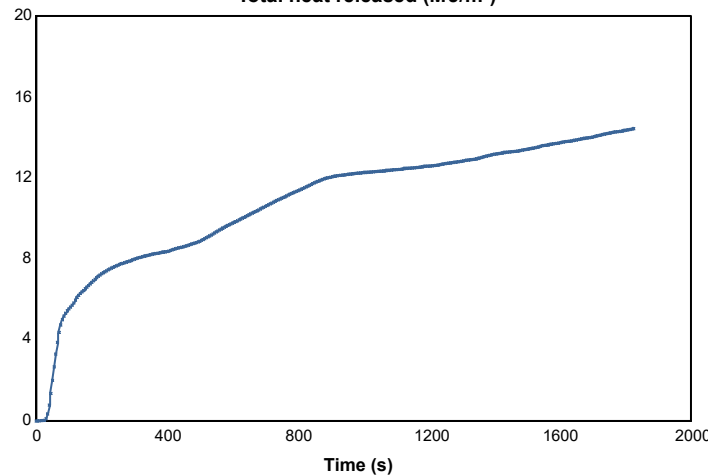
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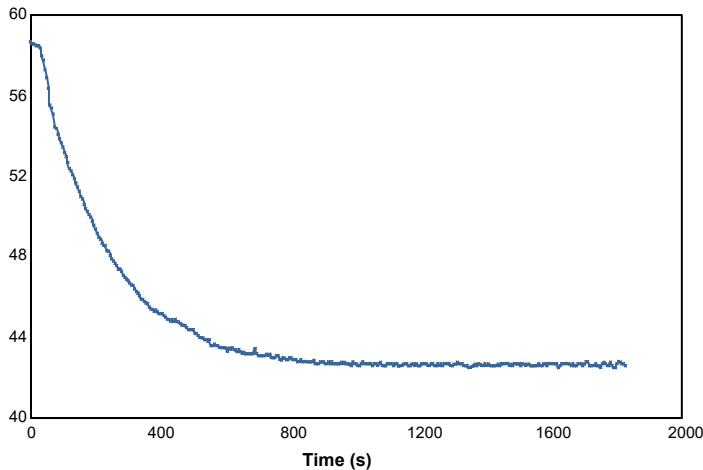
Mass loss rate (g/s)



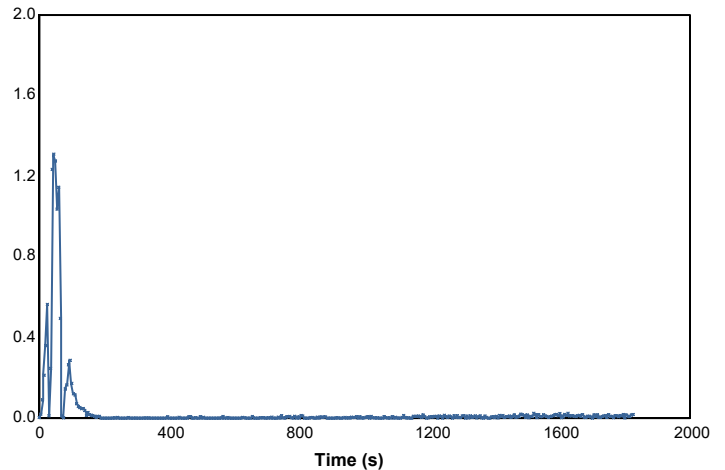
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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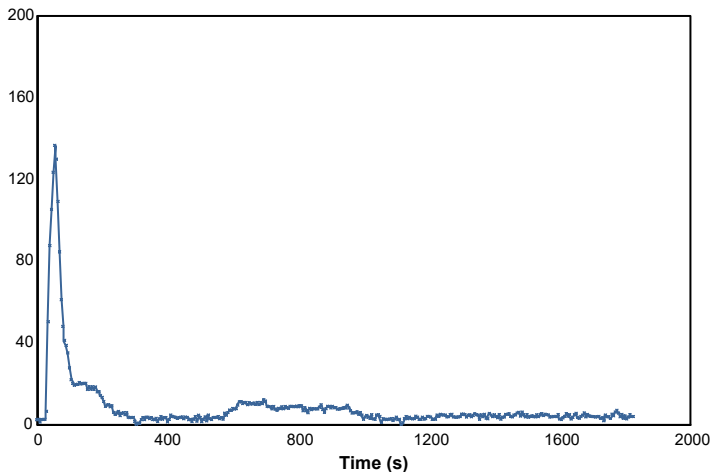
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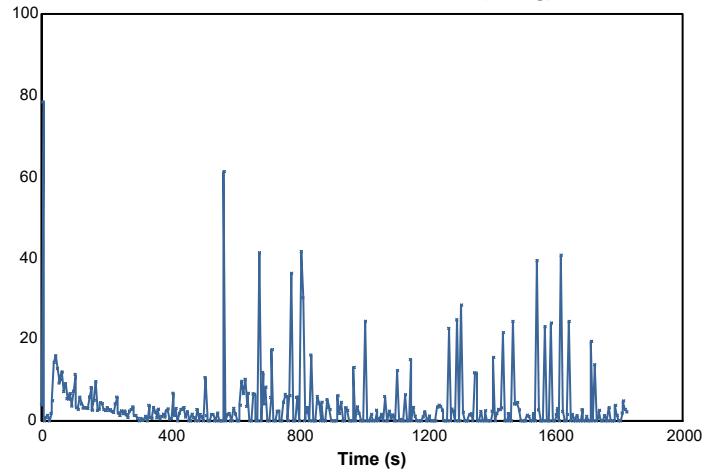
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Specimen : 3

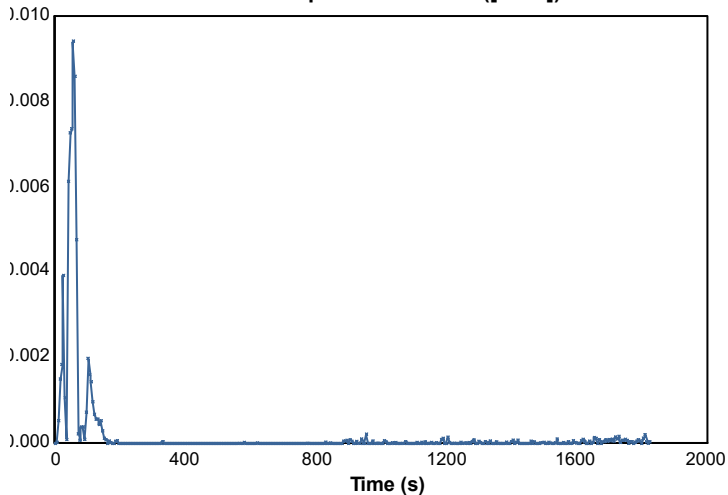
Heat release rate (kW/m²)



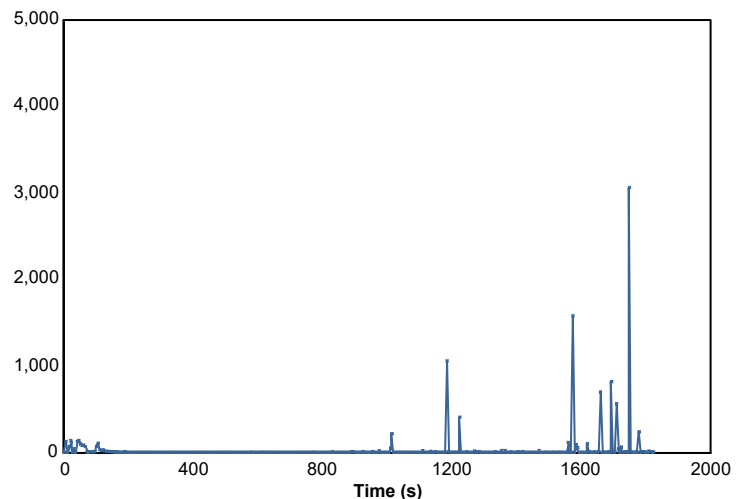
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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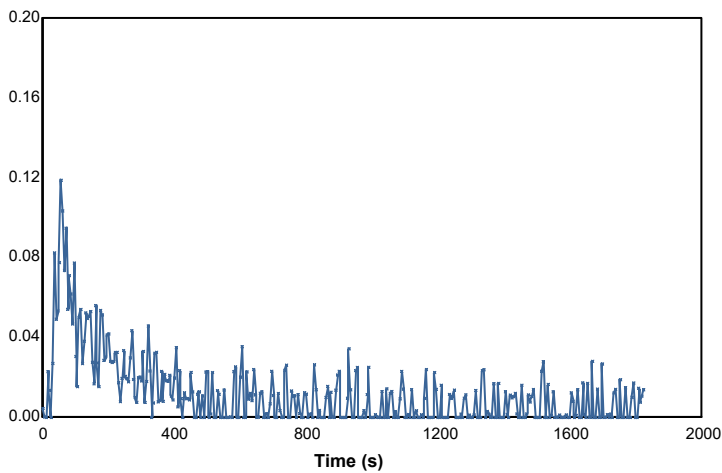
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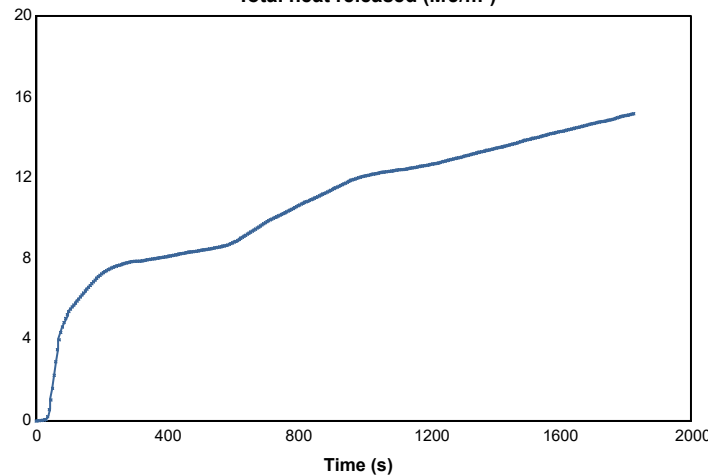
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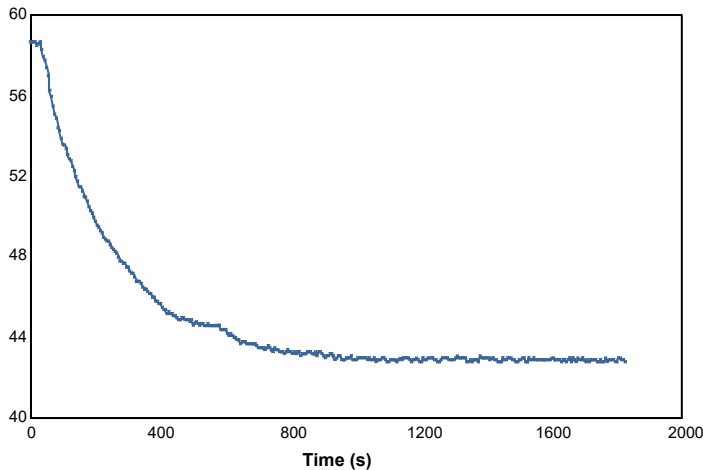
Mass loss rate (g/s)



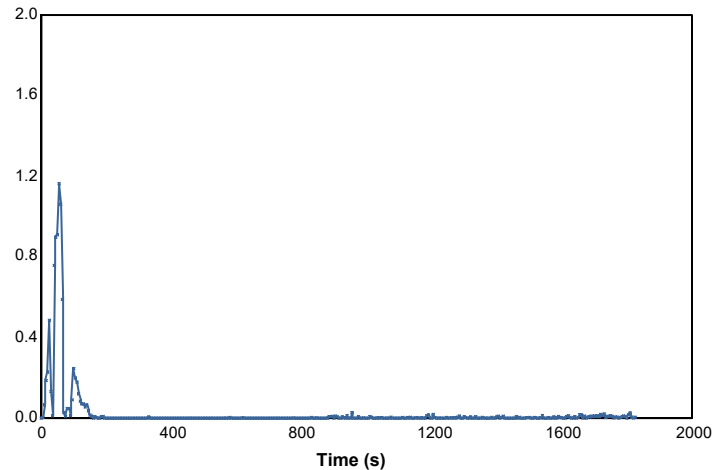
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s)/m²)



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