

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)

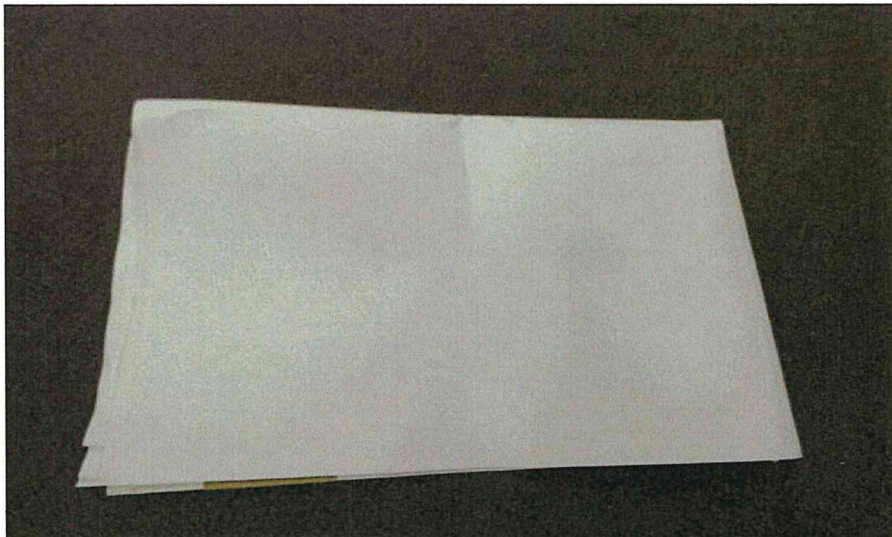
This is to confirm that the product as described below has been tested by AWTA Product Testing .

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 :	Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221	Test Number :	23-003541
		Issue Date :	14/09/2023
		Print Date :	14/09/2023

Sponsor Product :	Clients Ref : "TPO Wall Covering"
	Wall Covering Sample
	Colour : White
	End Use : Wall Covering
	Nominal Composition : Thermoplastic polyolefin/Paper back
	Nominal Mass per Unit Area/Density : Approx: 390g/m2



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	19 Heath Road	Issue Date :	14/09/2023
	Blakehurst NSW 2221	Print Date :	14/09/2023

Product Group Number Classification : 2

Average Specific Extinction Area : 58.5 m²/kg



Chris Campbell
Client Relations Manager

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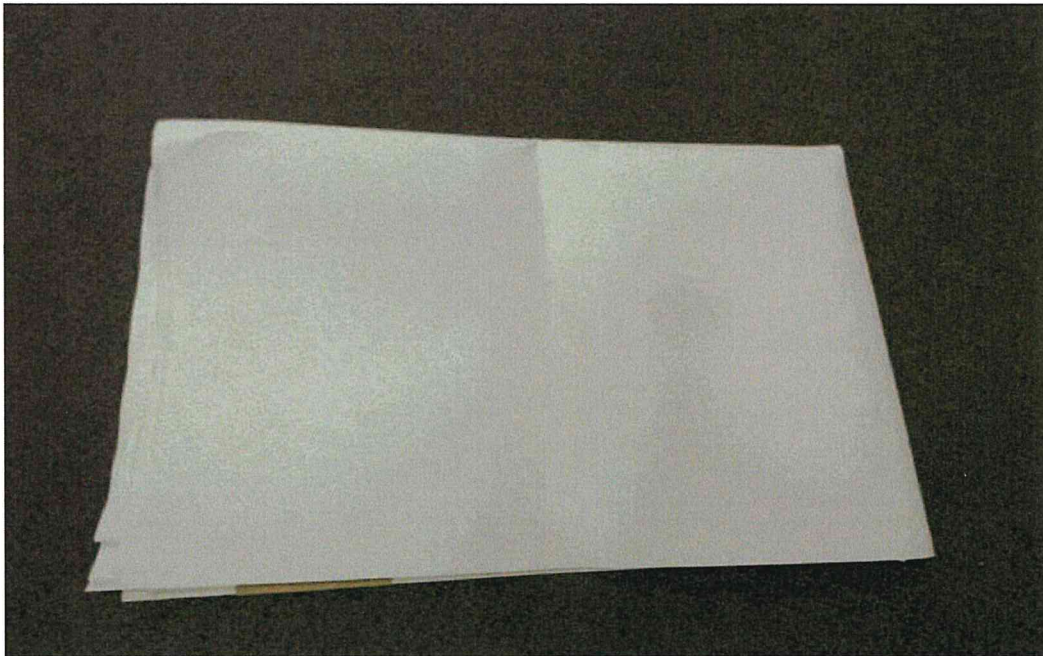
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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 23-003541
Issue Date : 12/09/2023
Print Date : 14/09/2023
Order Number : 000318

Sample Description Clients Ref : "TPO Wall Covering"
Wall Covering Sample
Colour : White
End Use : Wall Covering
Nominal Composition : Thermoplastic polyolefin/Paper back
Nominal Mass per Unit Area/Density : Approx: 390g/m2



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AS/NZS 3837-1998

Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen Consumption Calorimeter

Date Tested 12-09-2023
Operator AWTA Test Operator 9
Face Tested FACE

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	79.5	78.0	74.5	77.4	kW/m ²
Average Specific extinction area	63.3	54.6	57.5	58.5	m ² /kg

(according to Specification C1.10 of the Building Code of Australia)

Test orientation : Horizontal

	Specimen			Mean	
	1	2	3		
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	34	31	21	29	sec
Test duration	251	262	268	260	sec
Peak heat release after ignition	220.8	202.2	200.4	207.8	kW/m ²
Average heat at 60 s	171.4	161.4	153.0	162.0	kW/m ²
Average heat at 180 s	92.7	93.3	94.0	93.3	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	17.6	18.0	18.2	18.0	MJ/m ²
Average effective heat of combustion	12.5	12.3	12.1	12.3	MJ/kg
Initial thickness	10.5	10.5	10.5	10.5	mm
Initial mass	64.1	63	63.7	63.6	g
Mass remaining	52.7	51.2	51.5	51.8	g
Mass percentage pyrolysed	17.8	18.7	19.1	18.5	%

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Mass loss	1.4	1.5	1.5	1.5	kg/m ²
Average rate of mass loss	6.4	6.3	6.2	6.3	g/m ² .s
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.

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 adhered to a substrate of 10mm thick plasterboard using Roberts 656 wallcovering adhesive prior to testing.

The results of these fire tests may be used to directly assess fire hazard, but it should be recognised that a single test method will not provide a full assessment of the fire hazard under all fire conditions.

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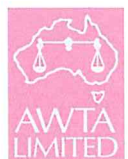
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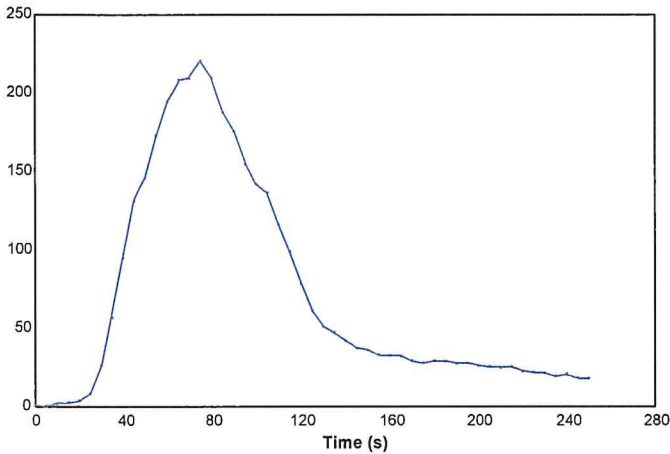
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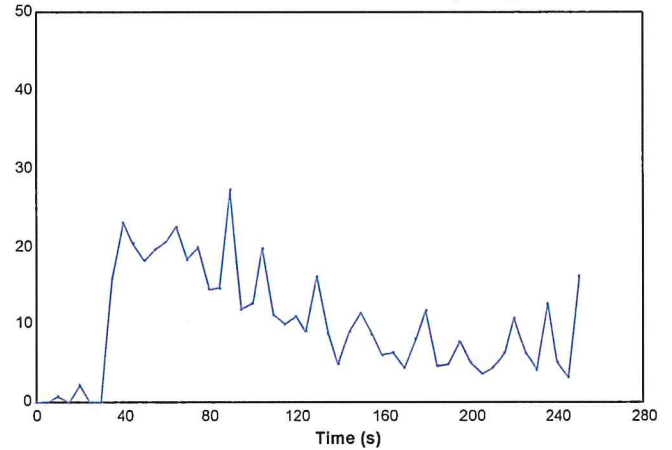
Test Number : 23-003541
Issue Date : 12/09/2023
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Order Number : 000318

Specimen : 1

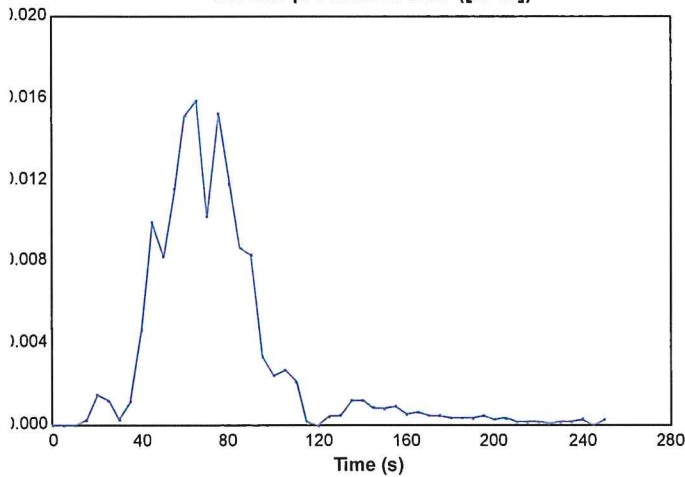
Heat release rate (kW/m²)



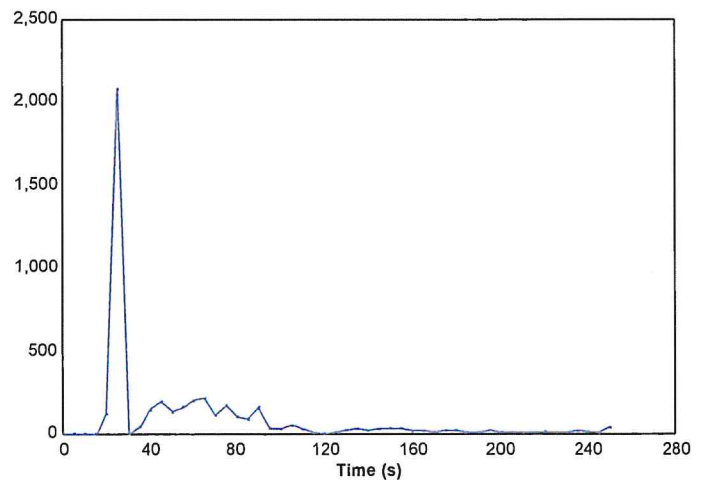
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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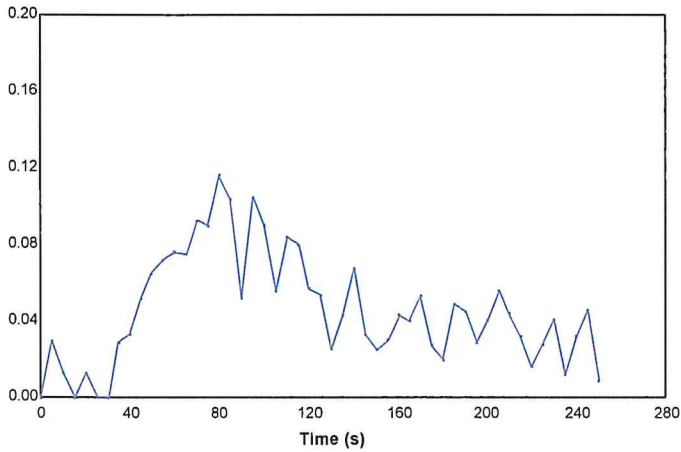
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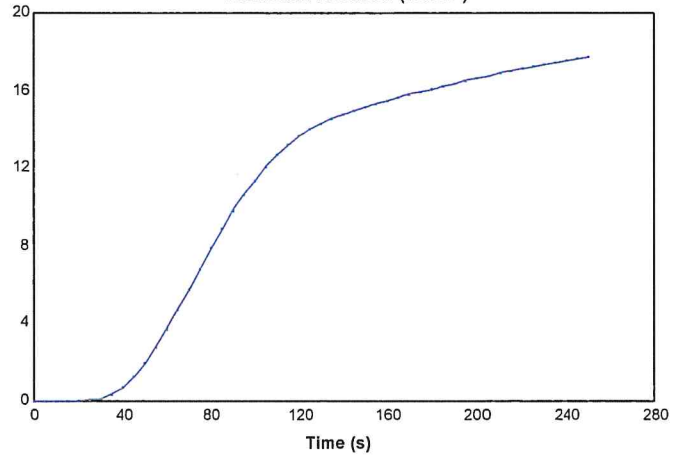
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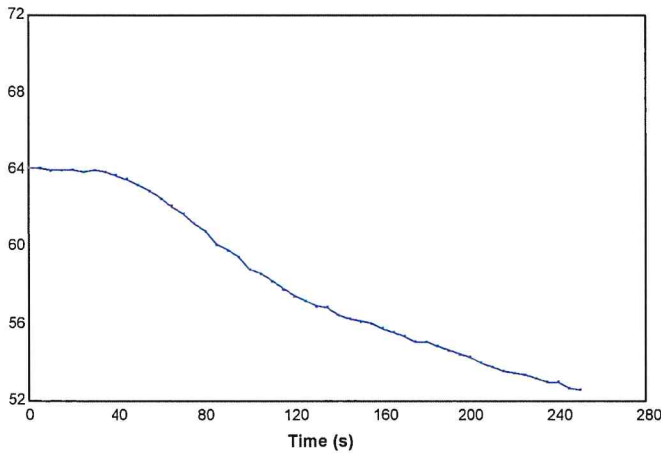
Mass loss rate (g/s)



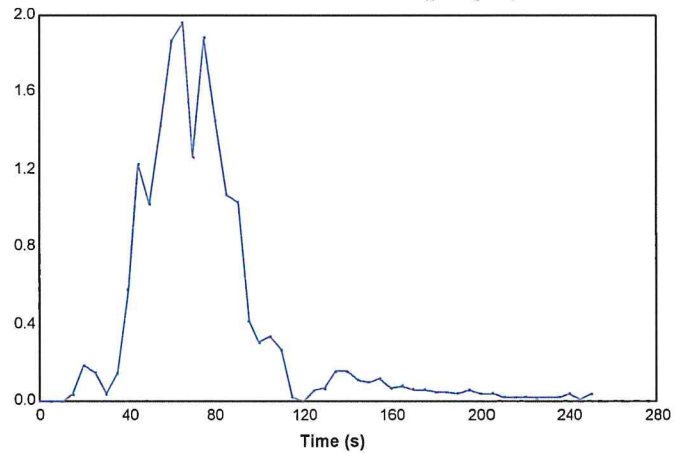
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m³/s]/m²)



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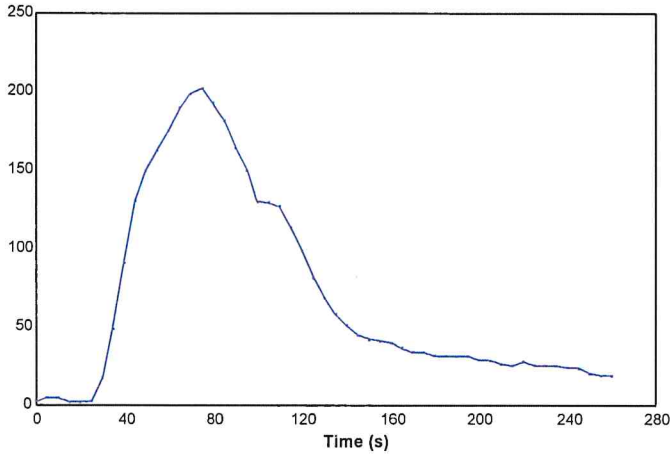
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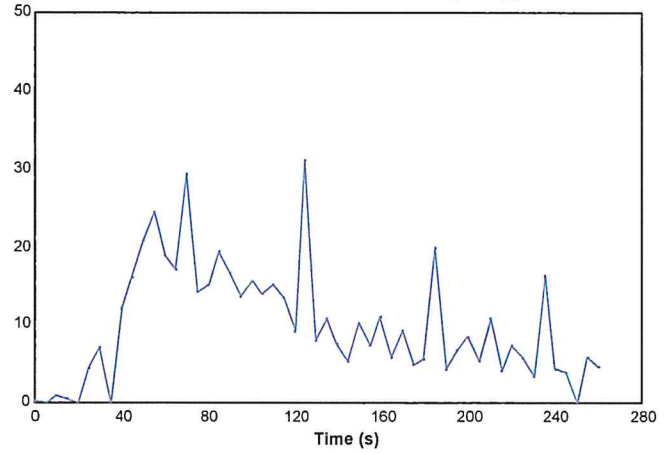
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Specimen : 2

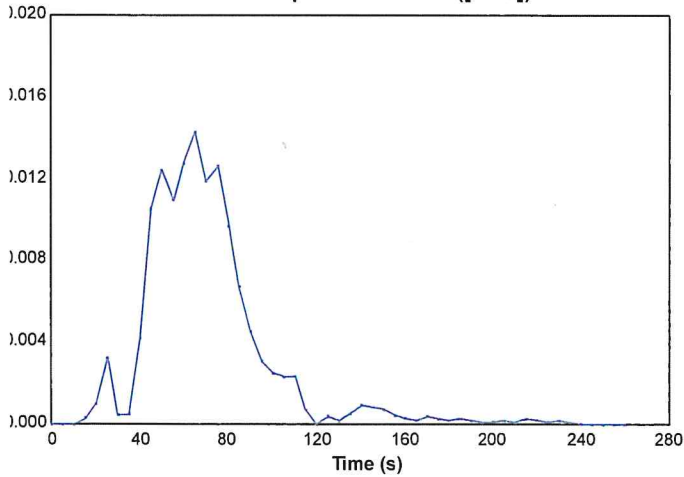
Heat release rate (kW/m²)



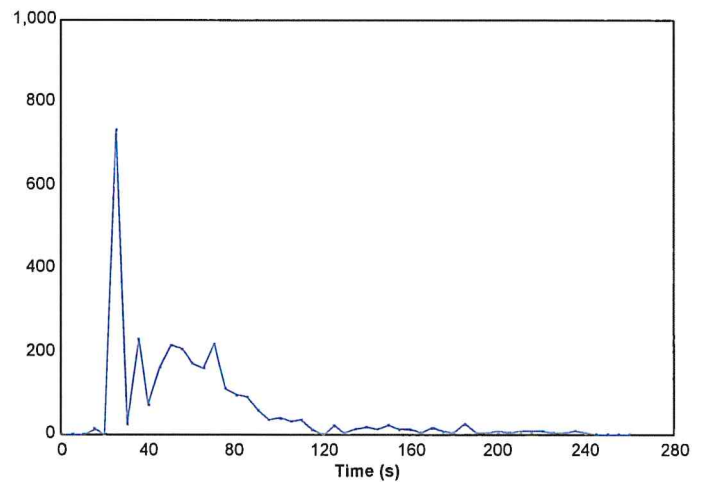
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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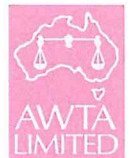
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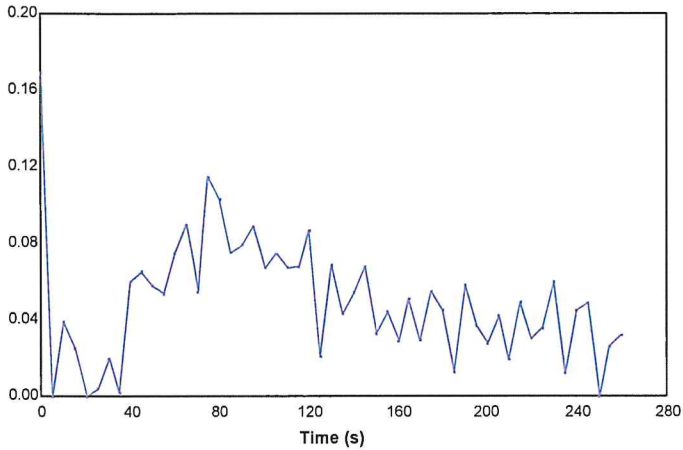
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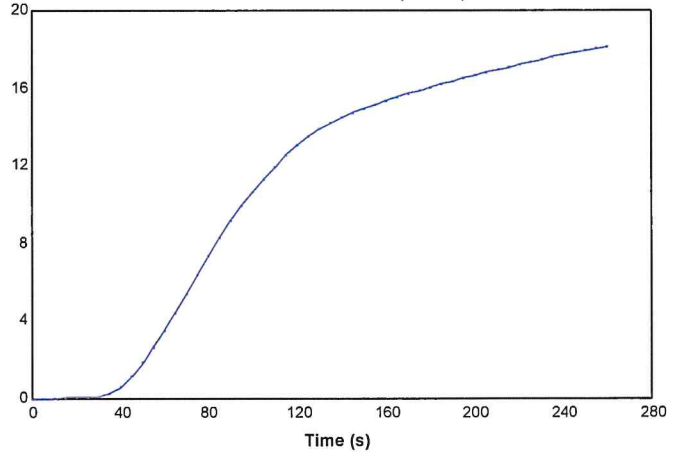
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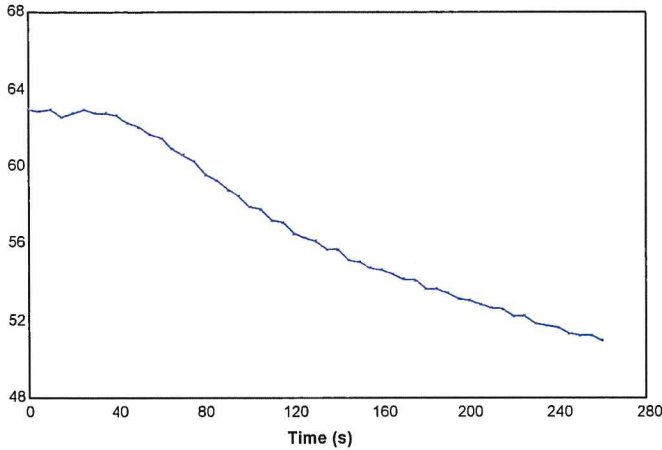
Mass loss rate (g/s)



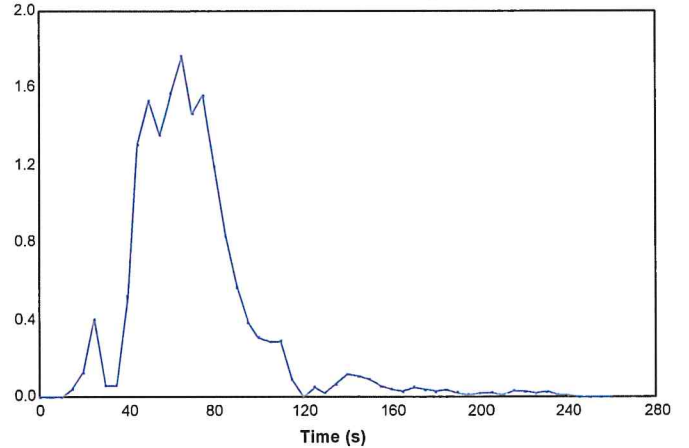
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m³/s]/m²)



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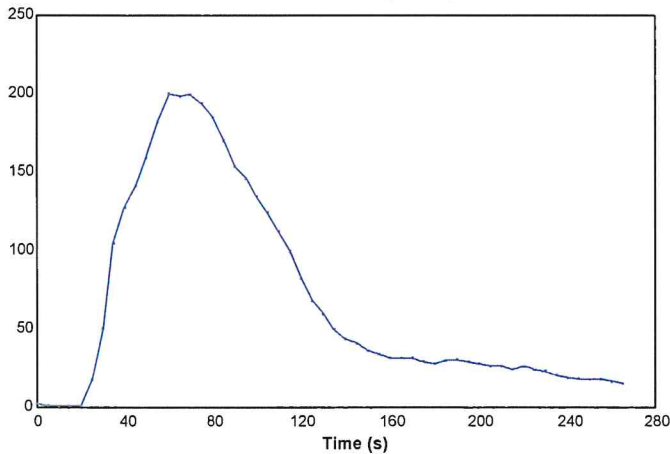
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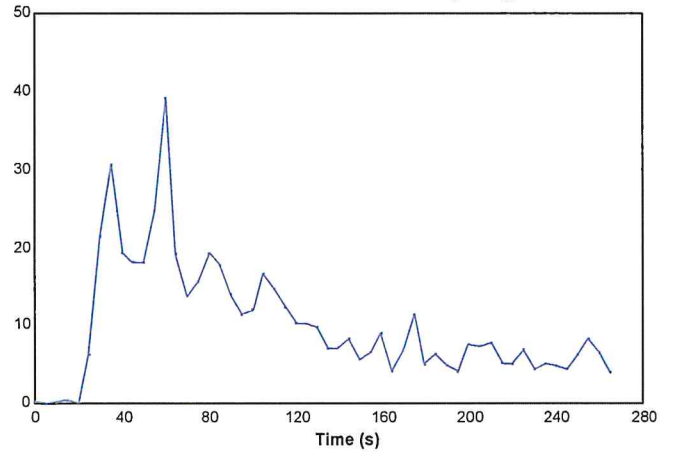
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Specimen : 3

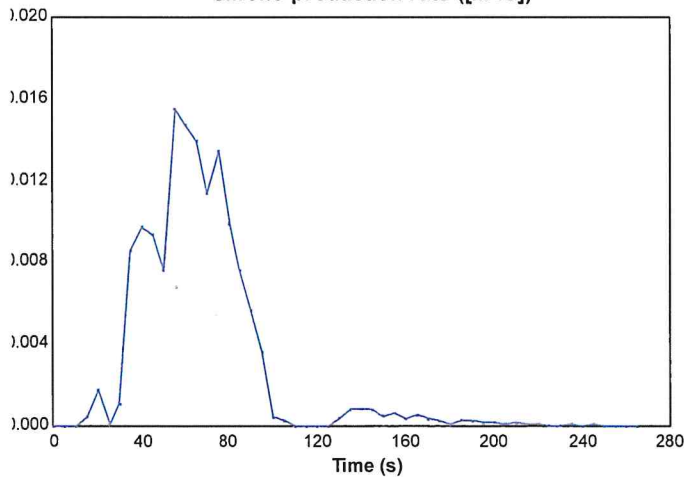
Heat release rate (kW/m²)



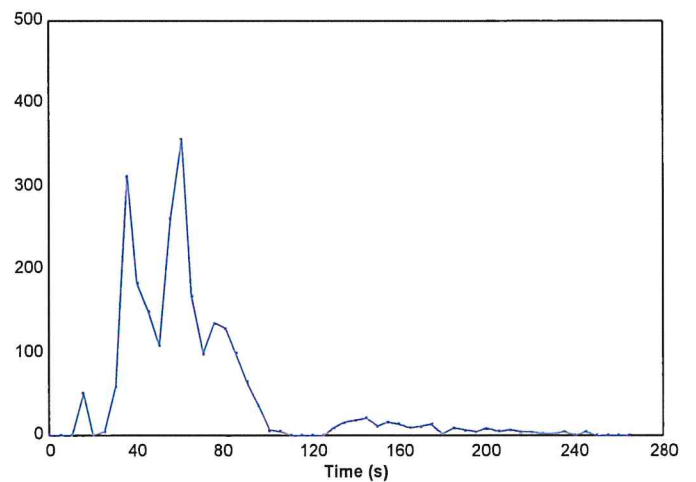
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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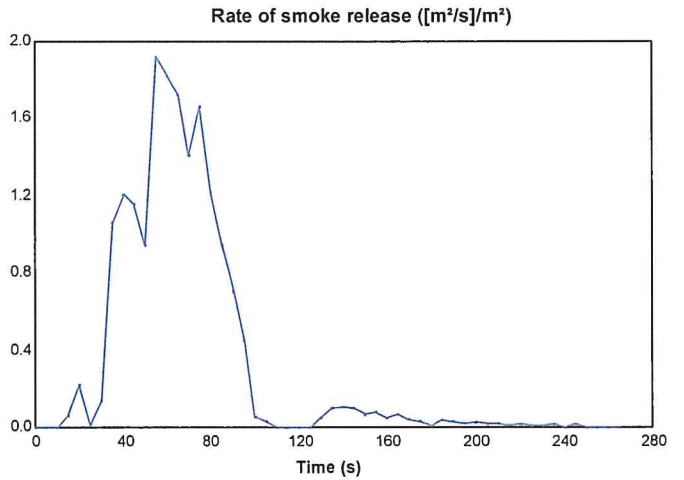
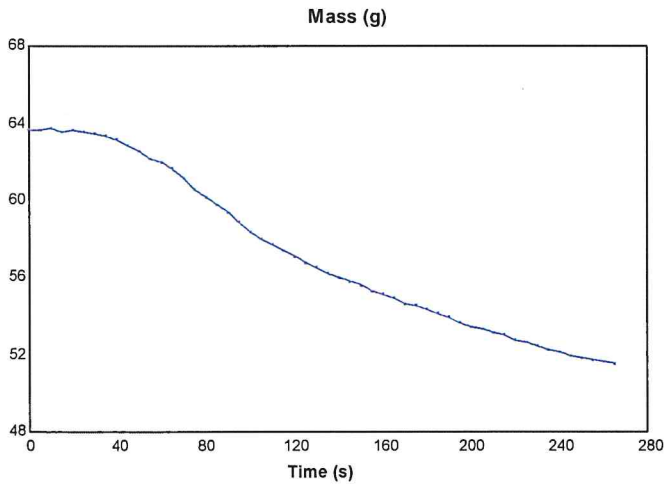
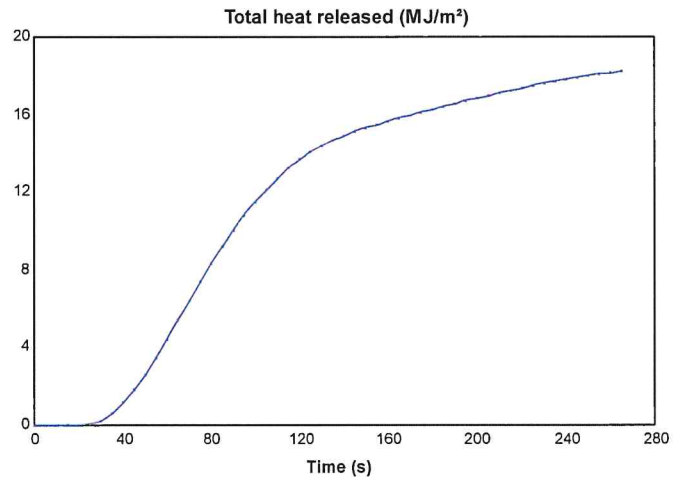
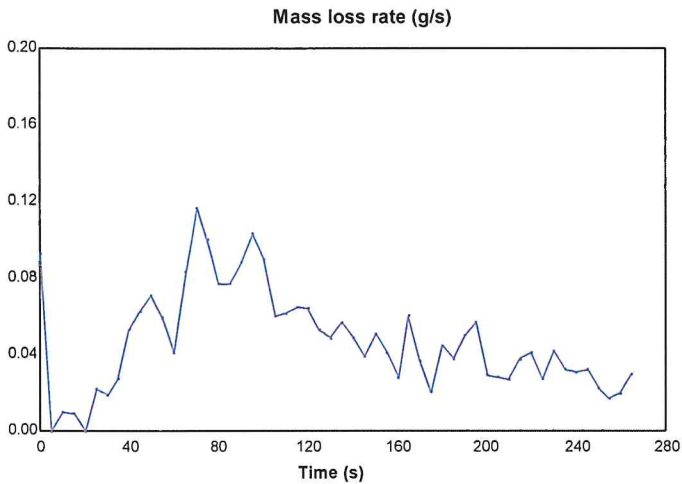
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