

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 Fax (03) 9371 2499

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.

Test Sponsor : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 17-004556
Issue Date : 07/09/2017
Print Date : 7/09/2017

Sponsor Product Clients Ref : "Mylar"
Printable wallcovering substrate
Colour : Silver
End Use : Wallcovering
Nominal Composition : Polyester
Nominal Mass per Unit Area/Density : Approx 500g/m2

Product Group Number Classification : 1
Average Specific Extinction Area : 80.6 m²/kg



Chris Campbell
Client Relations Manager

21810

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TEST REPORT

Client : Materialised Pty Ltd
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Blakehurst NSW 2221

Test Number : 17-004556
Issue Date : 07/09/2017
Print Date : 7/09/2017
Order Number : 36309

Sample Description Clients Ref : "Mylar"
Printable wallcovering substrate
Colour : Silver
End Use : Wallcovering
Nominal Composition : Polyester
Nominal Mass per Unit Area/Density : Approx 500g/m²

AS/NZS 3837-1998

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

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	42.4	42.1	40.2	41.5	kW/m ²
Average Specific extinction area	76.9	79.1	85.8	80.6	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	24	24	24	24	L/sec
Time to sustained flaming	31	30	27	29	sec
Test duration	260	256	260	259	sec
Peak heat release after ignition	96.4	106.2	93.6	98.7	kW/m ²
Average heat at 60 s	71.9	74.4	68.6	71.6	kW/m ²
Average heat at 180 s	47.8	46.9	45.9	46.9	kW/m ²
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m ²
Total heat released	9.8	9.5	9.4	9.5	MJ/m ²
Average effective heat of combustion	6.9	6.6	6.6	6.7	MJ/kg

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Accredited for compliance with ISO/IEC 17025
- Chemical Testing
- Mechanical Testing
- Performance & Approvals Testing

: Accreditation No. 983
: Accreditation No. 985
: Accreditation No. 1356



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Initial thickness	11.0	11.0	11.0	11.0	mm
Initial mass	61.1	61.7	65.9	62.9	g
Mass remaining	49.6	49.8	54.0	51.1	g
Mass percentage pyrolysed	18.8	19.3	18.1	18.7	%
Mass loss	11.5	11.9	11.9	11.8	g
Average rate of mass loss	6.1	6.3	6.1	6.2	g/m ² .s

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.

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.

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

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0204/11/06


APPROVED SIGNATORY


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

AWTA PRODUCT TESTING

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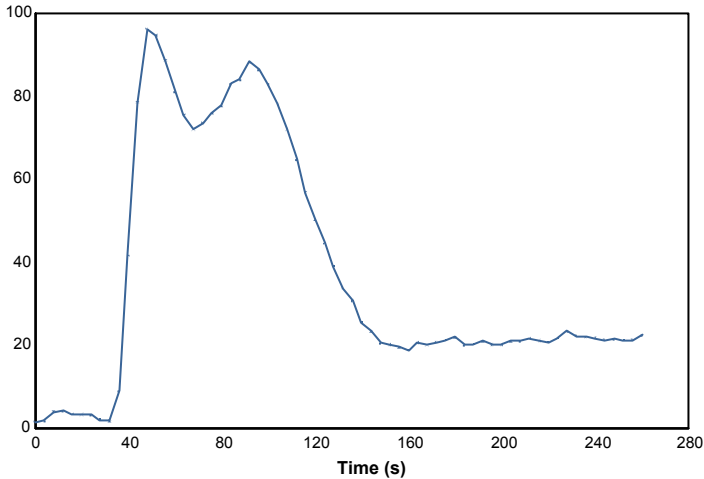
TEST REPORT

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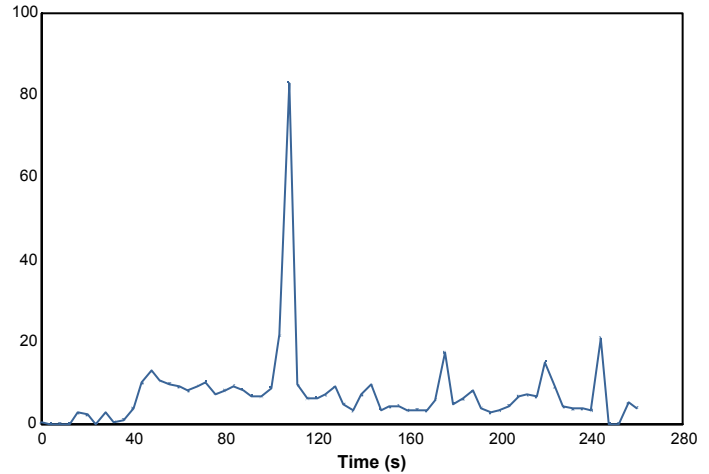
Test Number : 17-004556
Issue Date : 07/09/2017
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Order Number : 36309

Specimen : 1

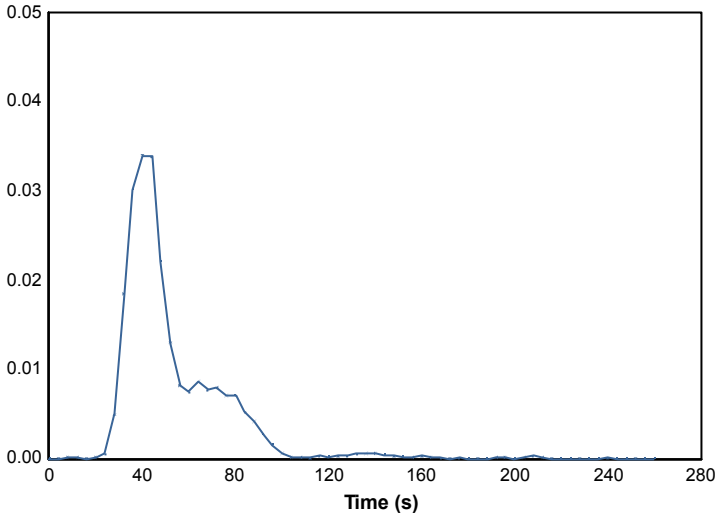
Heat release rate (kW/m²)



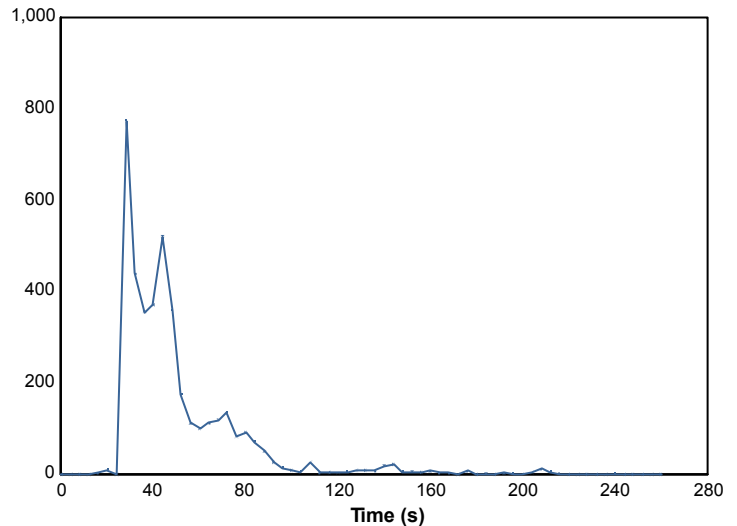
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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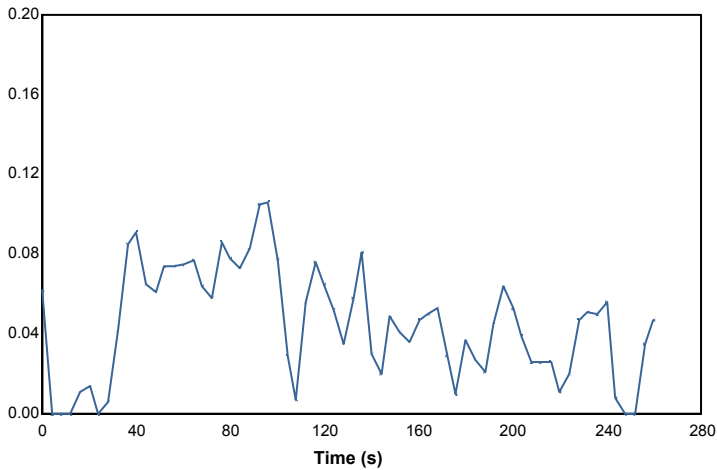
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TEST REPORT

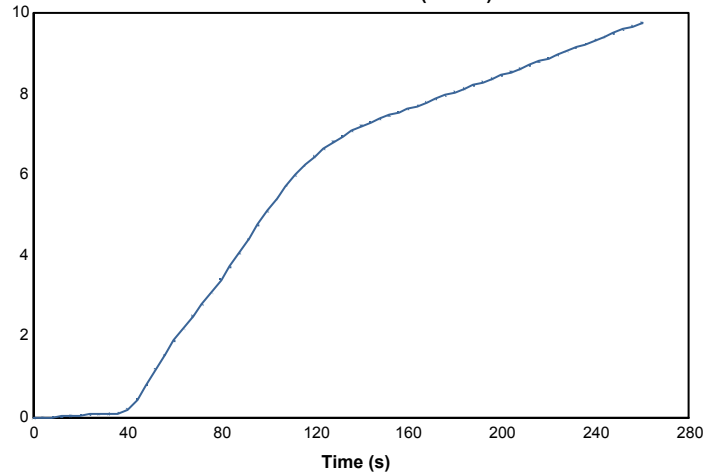
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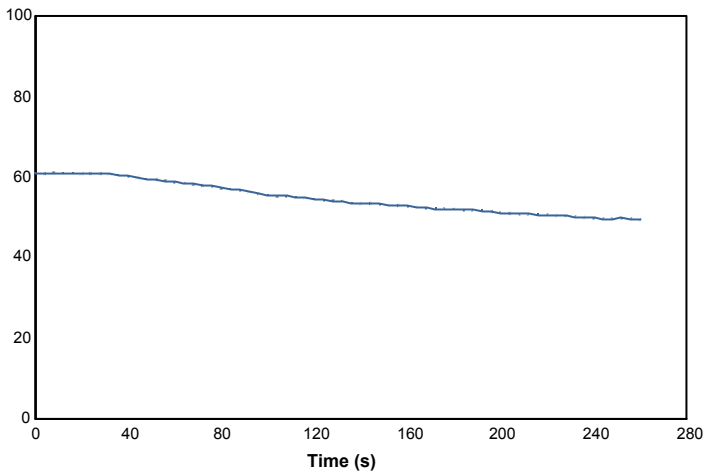
Mass loss rate (g/s)



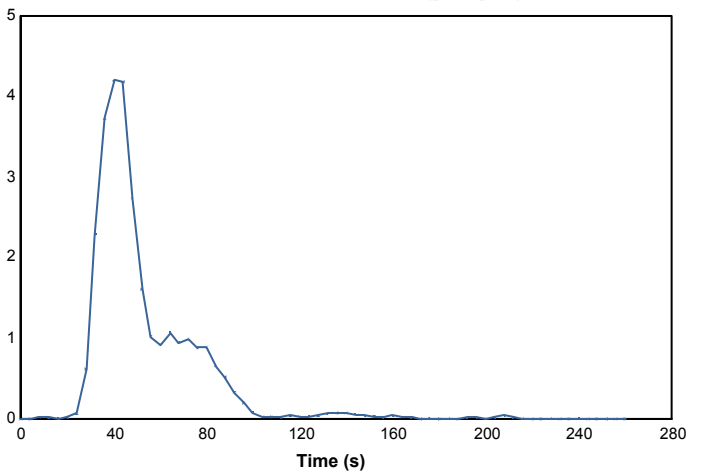
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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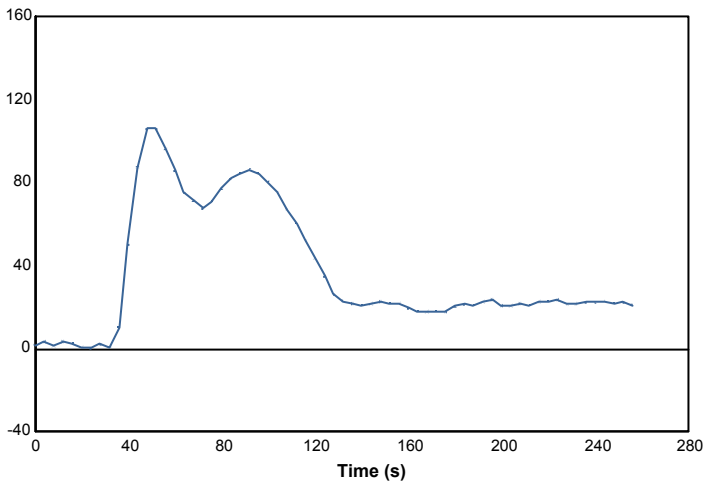
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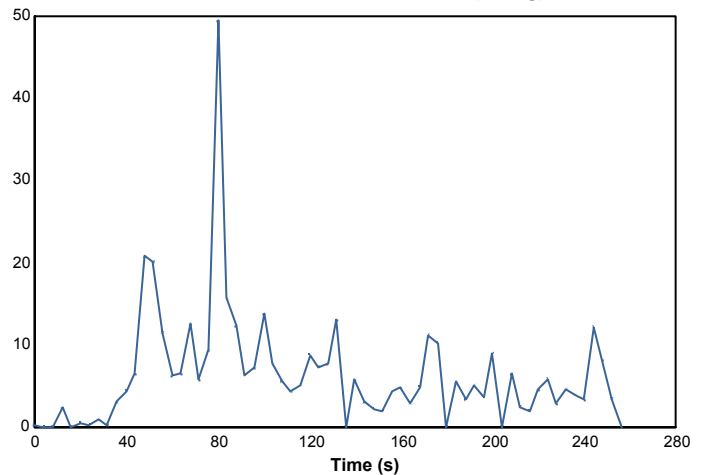
Test Number : 17-004556
Issue Date : 07/09/2017
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Order Number : 36309

Specimen : 2

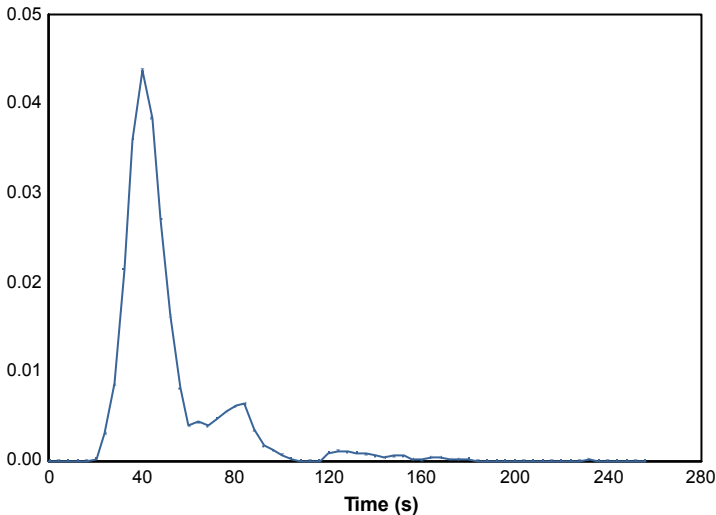
Heat release rate (kW/m²)



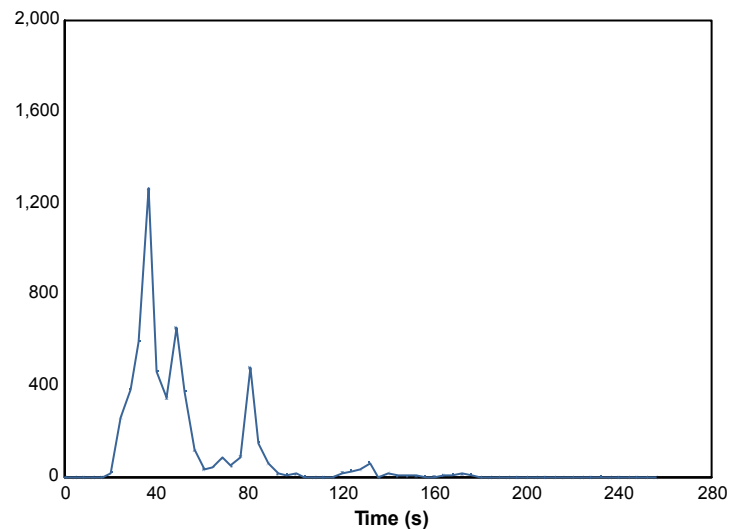
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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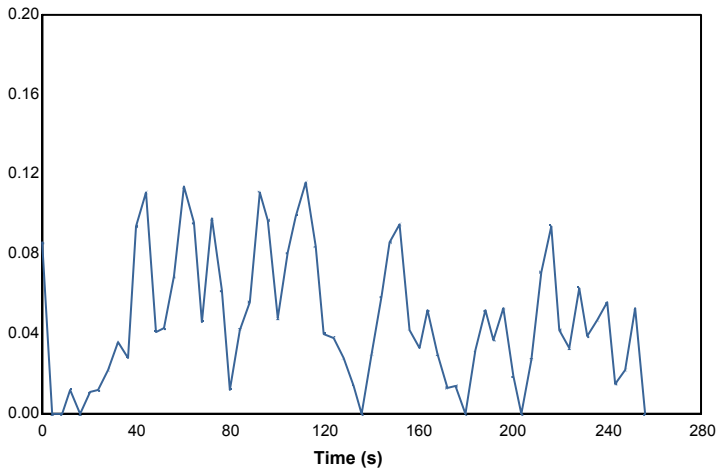
Phone (03) 9371 2400 Fax (03) 9371 2499

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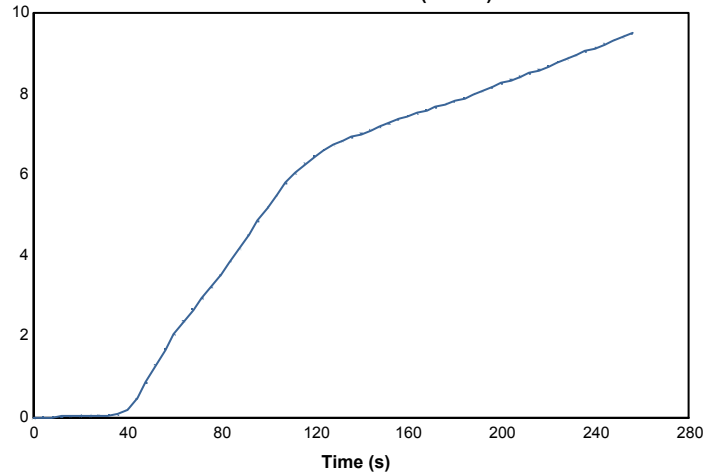
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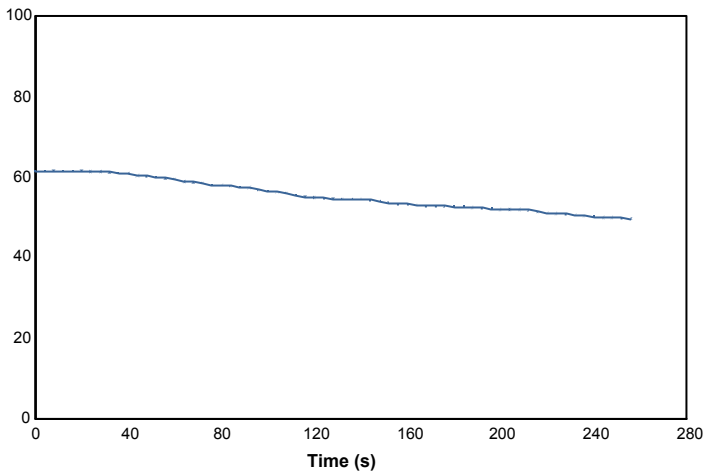
Mass loss rate (g/s)



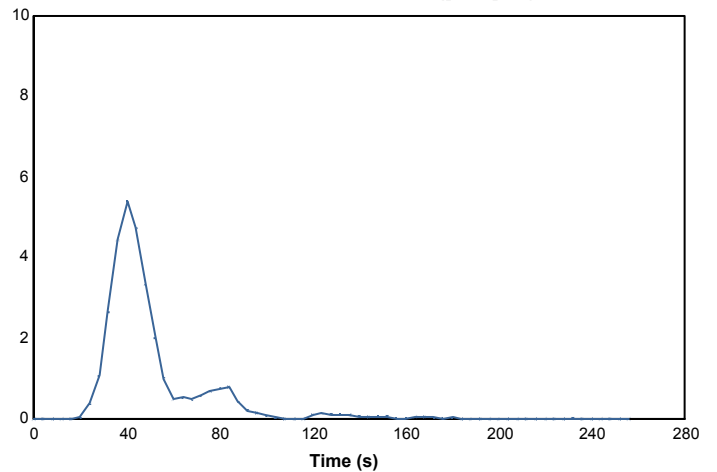
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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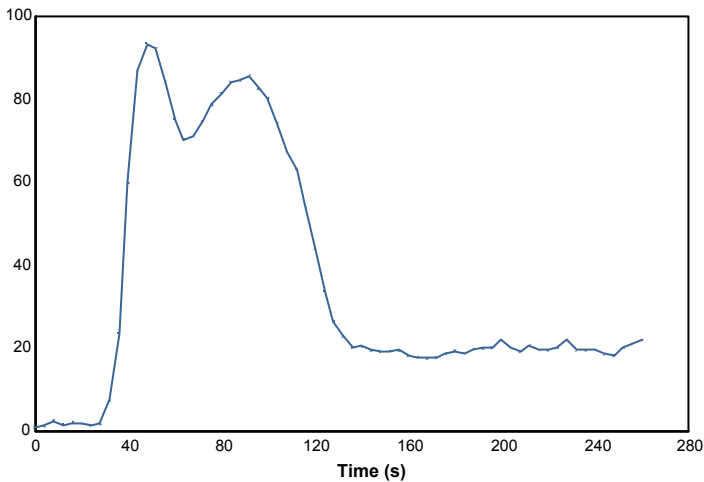
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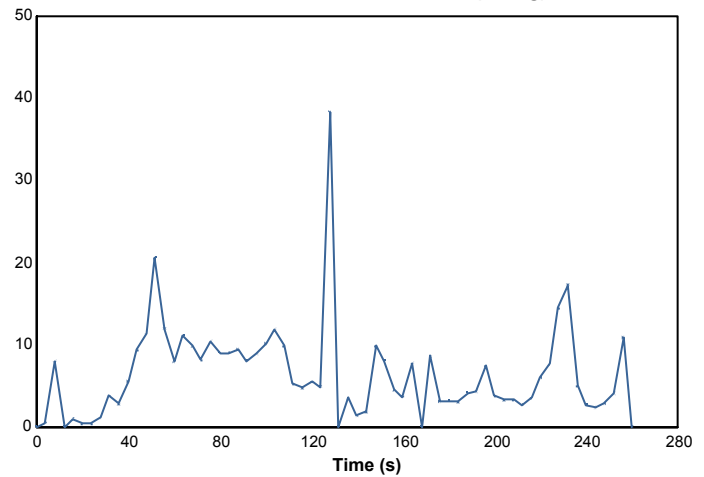
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Specimen : 3

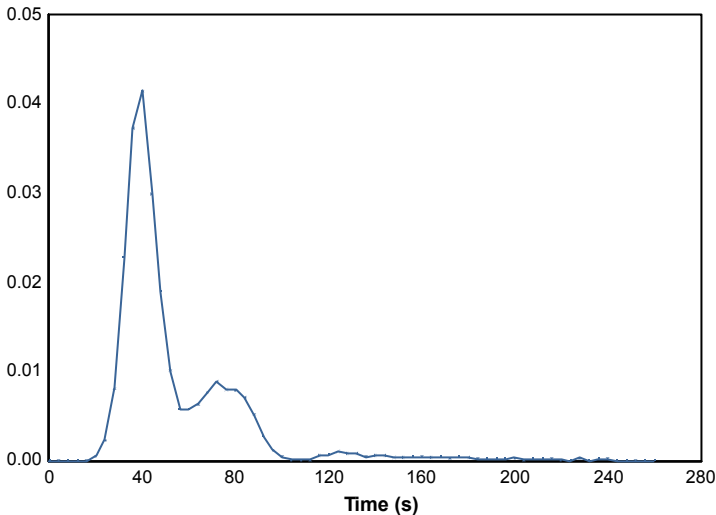
Heat release rate (kW/m²)



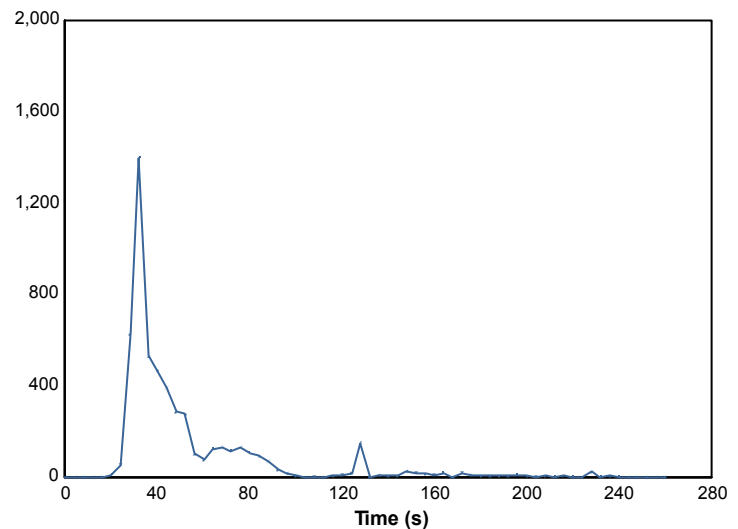
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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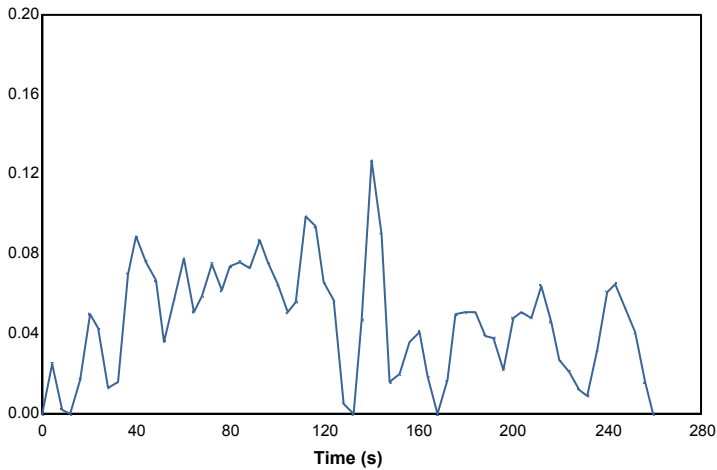
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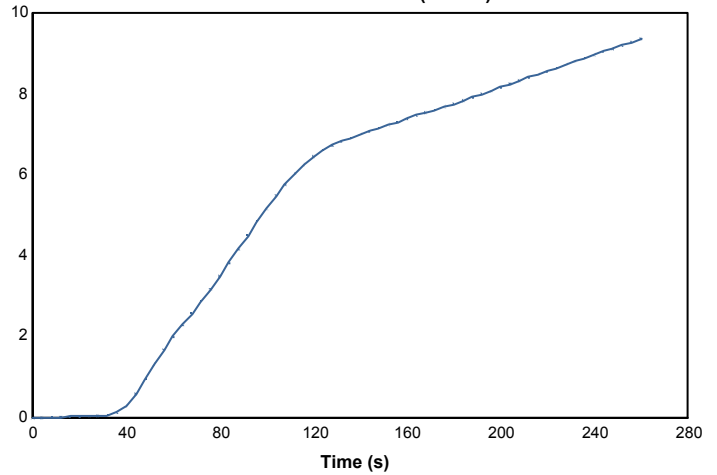
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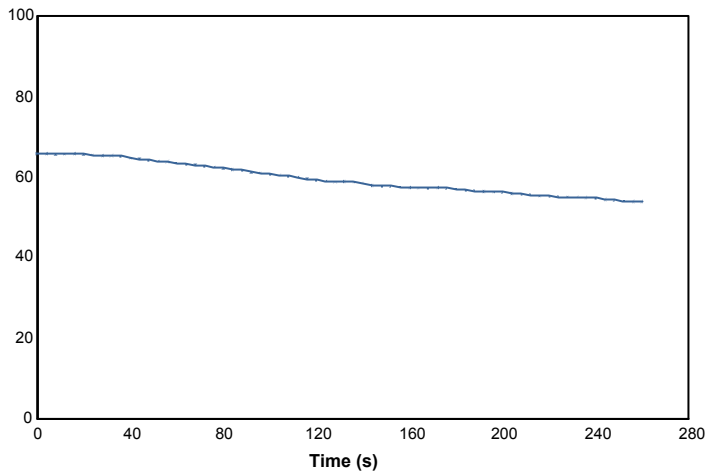
Mass loss rate (g/s)



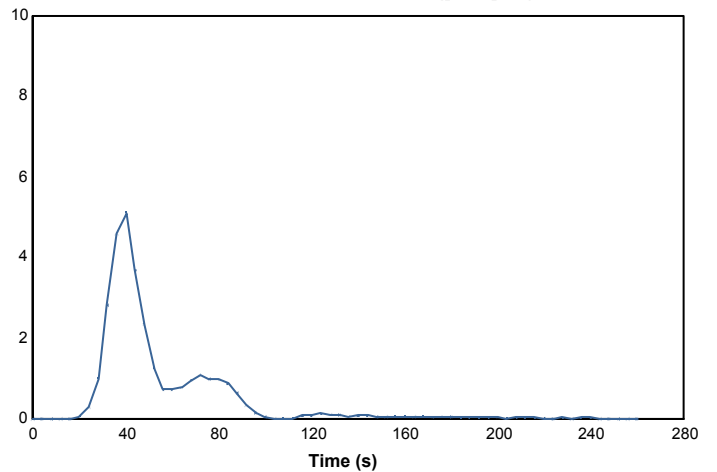
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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