

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

TEST REPORT

Client : Vertilux Corporation Pty Ltd
PO Box 611
Tullamarine VIC 3043

Test Number : 15-003912
Issue Date : 11/08/2015
Print Date : 12/08/2015

Sample Description Clients Ref : "Status 5% Transparent Lead (Black)"
Woven coated fabric
Colour : Lead-Black
End Use : Blinds
Nominal Composition : 30% Polyester, 70% PVC
Nominal Mass per Unit Area/Density : 430g/m²
Nominal Thickness : 0.59mm

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	19.4	19.0	20.8	19.7	kW/m ²
Average Specific extinction area	559.0	532.2	539.1	543.4	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	14	15	12	14	sec
Test duration	328	310	306	315	sec
Peak heat release after ignition	51.9	53.3	59.6	54.9	kW/m ²
Average heat at 60 s	41.3	41.6	46.1	43.0	kW/m ²
Average heat at 180 s	29.5	28.4	30.3	29.4	kW/m ²
Average heat at 300 s	20.2	19.0	20.8	20.0	kW/m ²
Total heat released	6.2	5.6	6.1	6.0	MJ/m ²
Average effective heat of combustion	15.2	13.1	14.0	14.1	MJ/kg

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- Chemical Testing of Textiles & Related Products	: Accreditation No.	983
- Mechanical Testing of Textiles & Related Products	: Accreditation No.	985
- Heat & Temperature Measurement	: Accreditation No.	1356

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

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Initial thickness	0.59	0.59	0.59	0.6	mm
Initial mass	4.3	4.3	4.3	4.3	g
Mass remaining	0.9	0.6	0.6	0.7	g
Mass percentage pyrolysed	79.1	85.0	86.1	83.4	%
Mass loss	3.4	3.7	3.7	3.6	g
Average rate of mass loss	1.3	1.5	1.5	1.4	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 reported herein shall not be used to derive a Group Number in accordance with the NCC without undertaking validation of the performance that is predicted.

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.

Tests were conducted with a simulated airgap, consisting of the sample resting on a 12mm spacer.

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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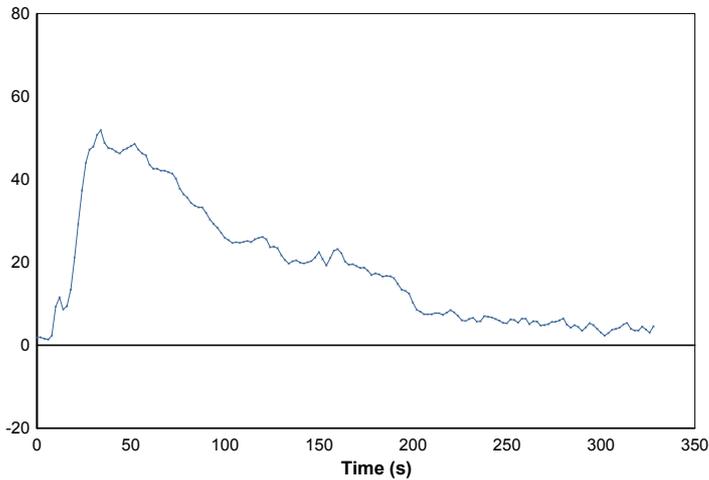
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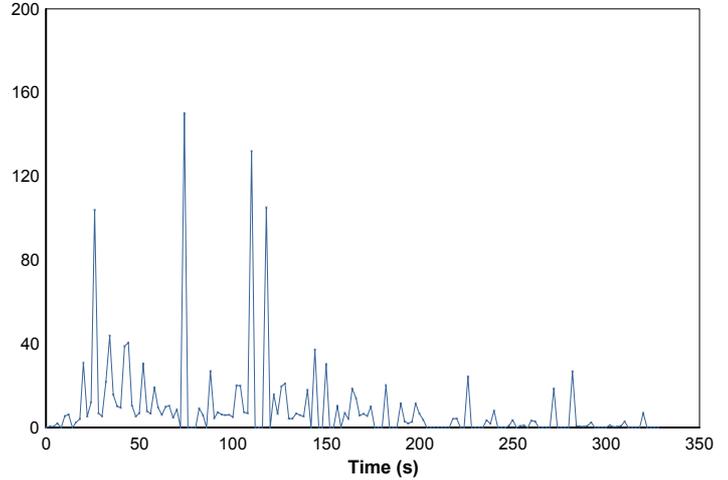
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Issue Date : 11/08/2015
Print Date : 12/08/2015

Specimen : 1

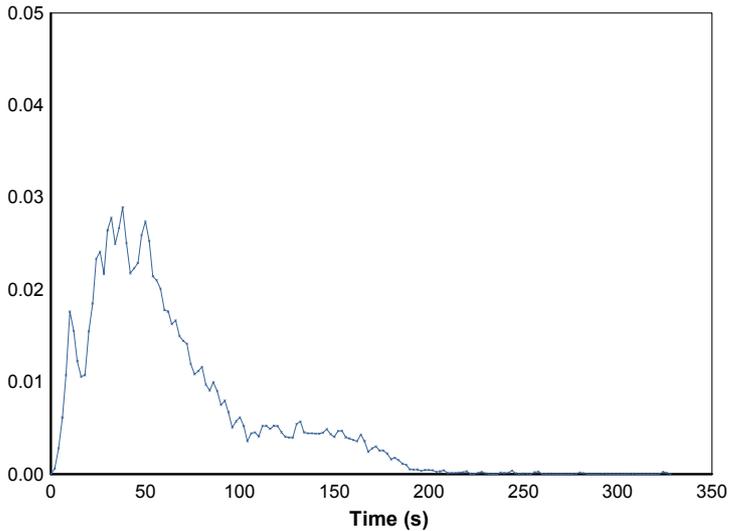
Heat release rate (kW/m²)



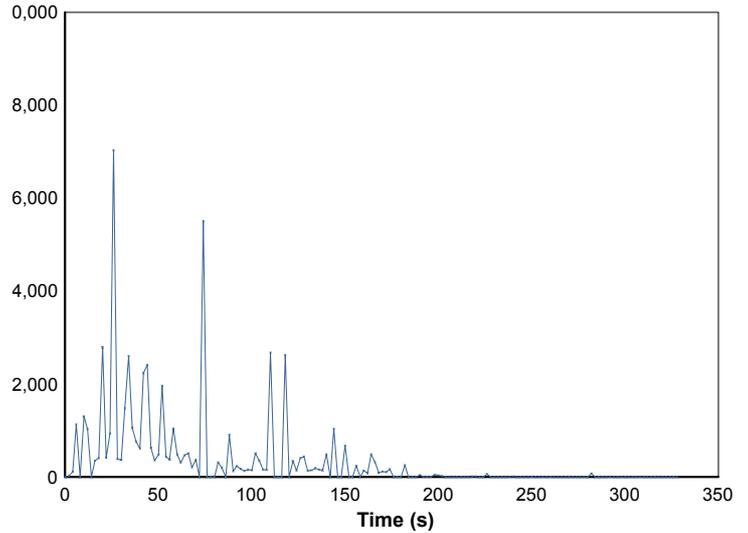
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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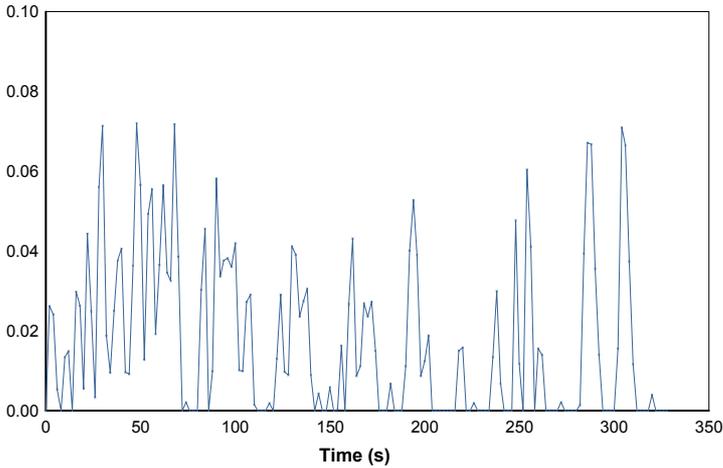
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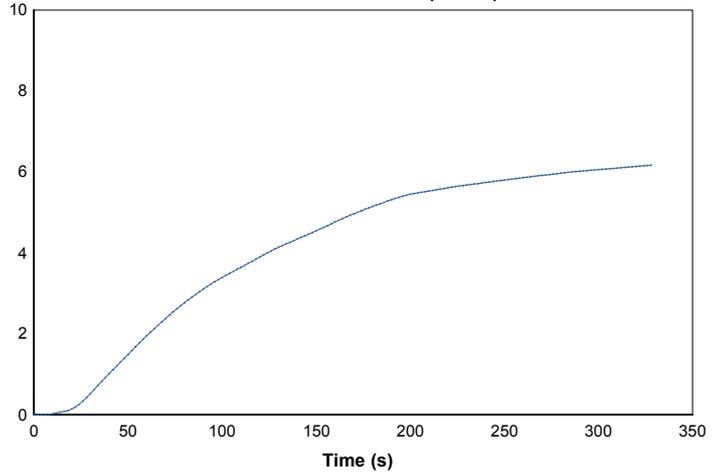
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Test Number : 15-003912
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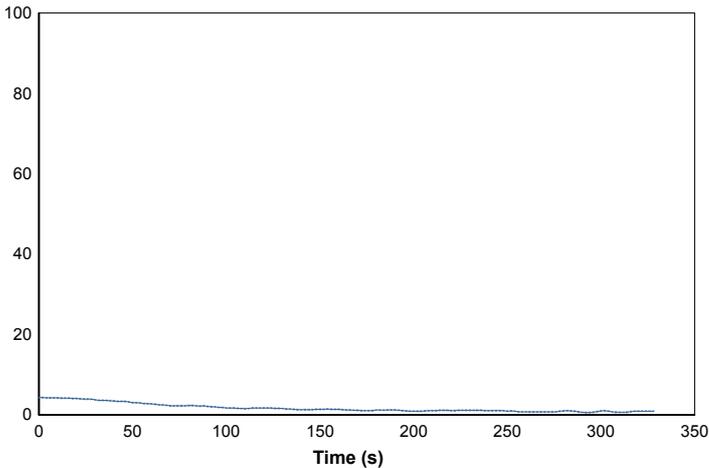
Mass loss rate (g/s)



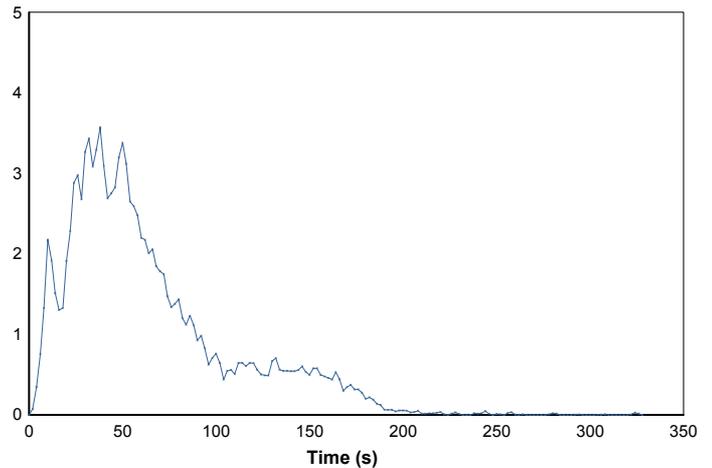
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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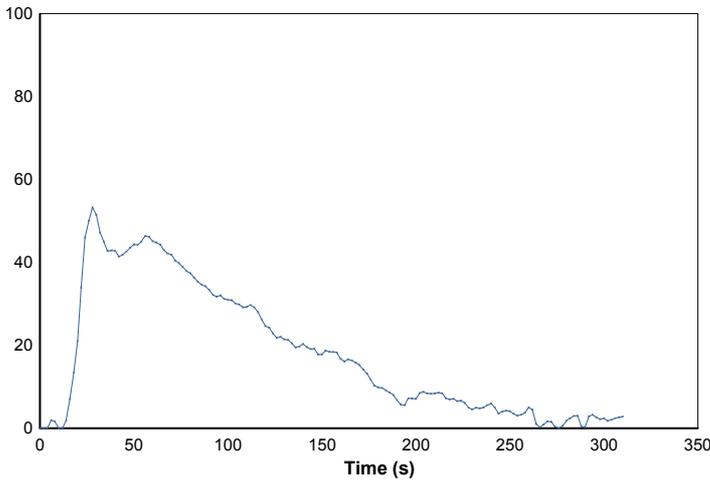
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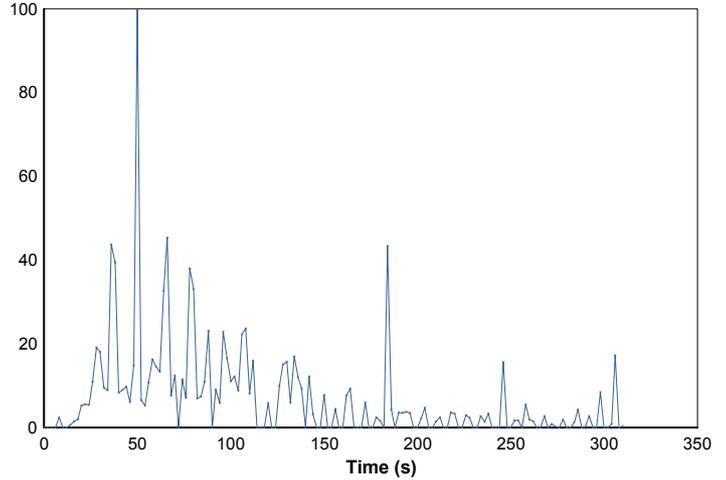
Test Number : 15-003912
Issue Date : 11/08/2015
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Specimen : 2

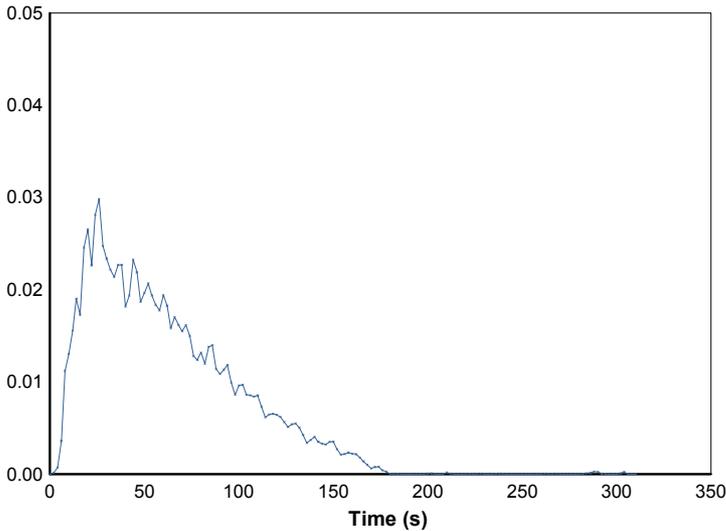
Heat release rate (kW/m²)



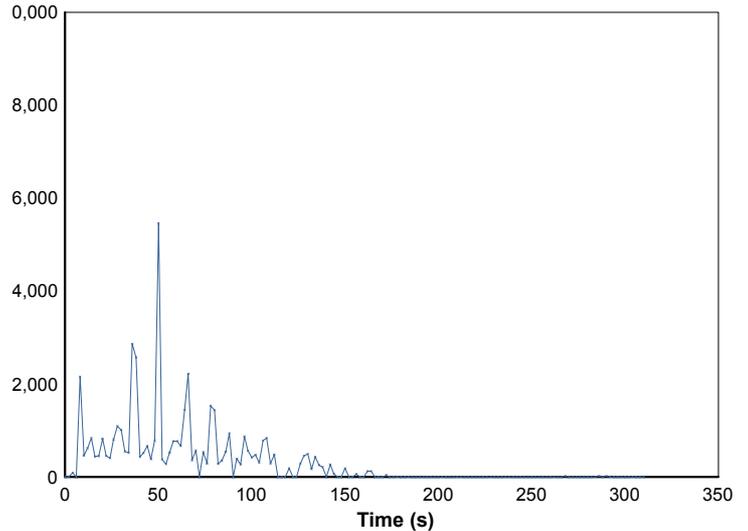
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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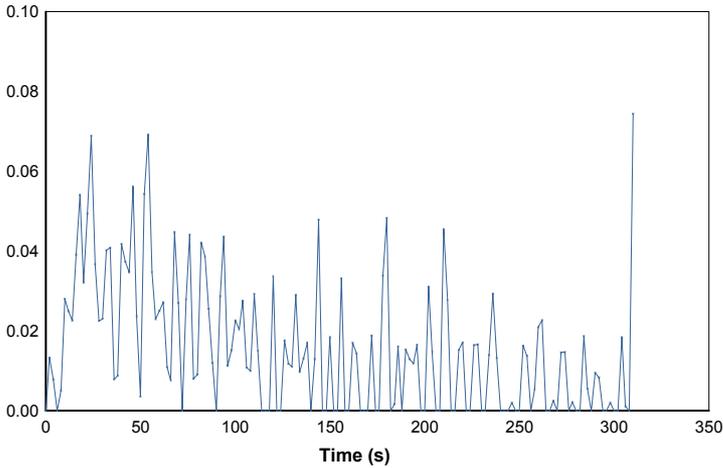
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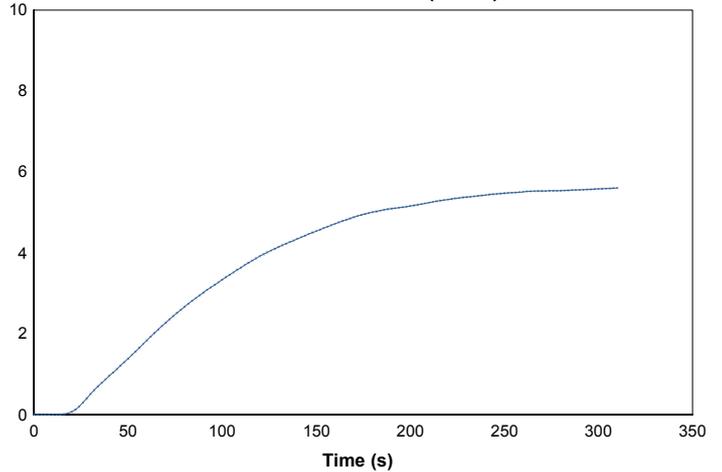
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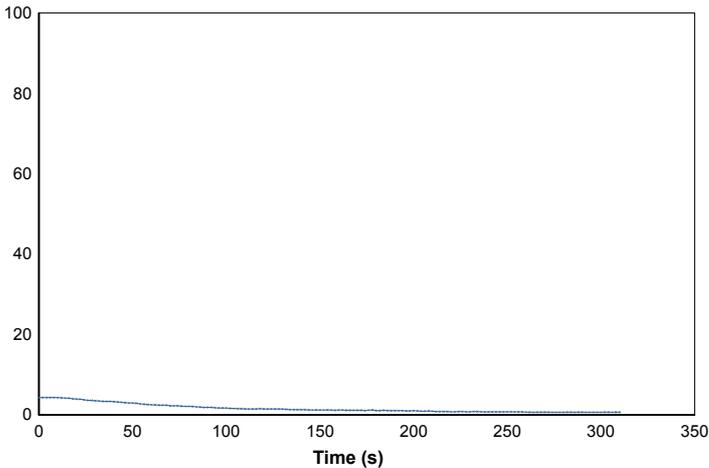
Mass loss rate (g/s)



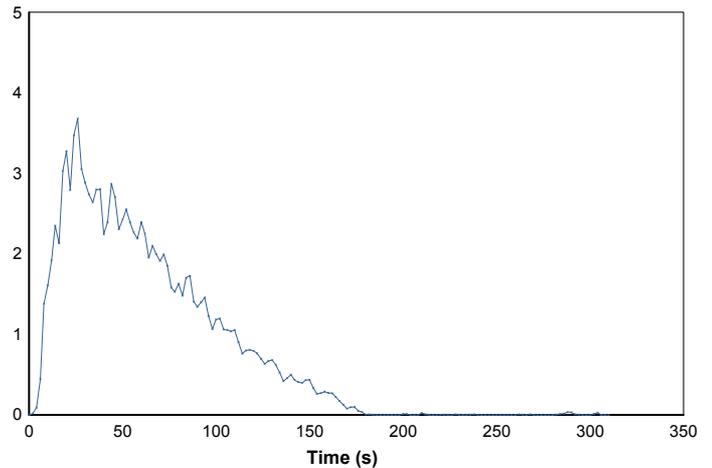
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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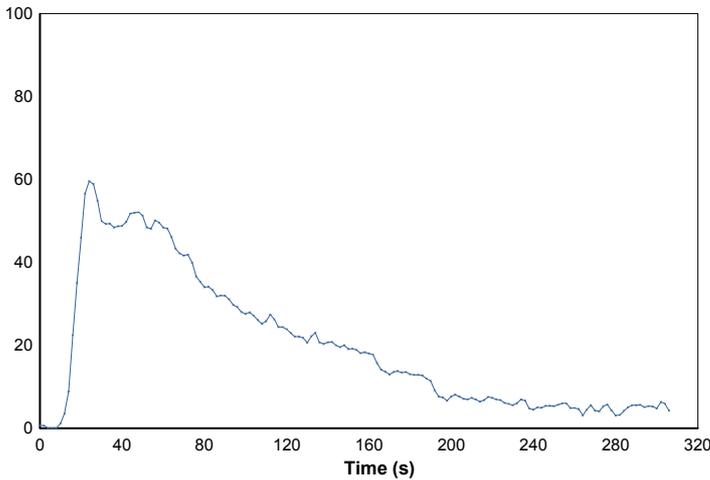
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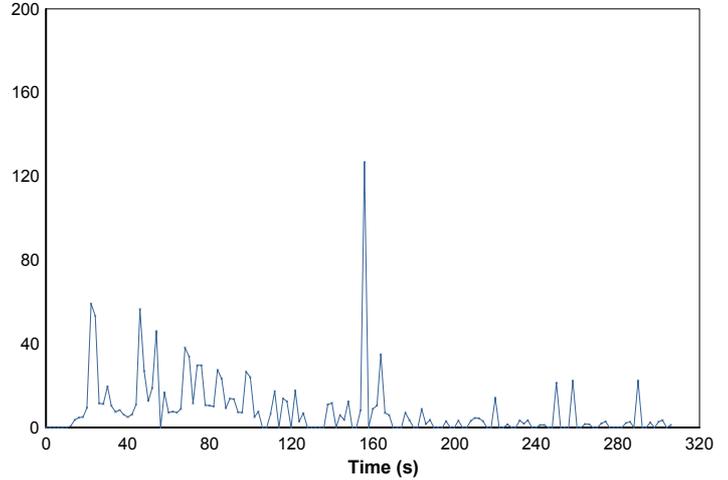
Test Number : 15-003912
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Specimen : 3

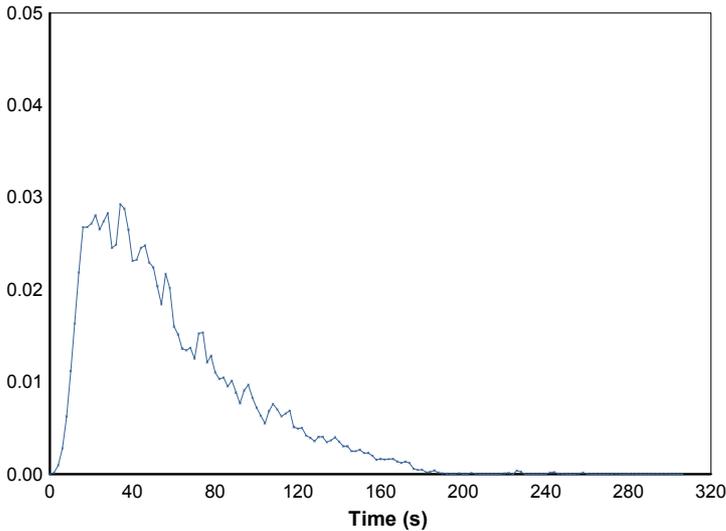
Heat release rate (kW/m²)



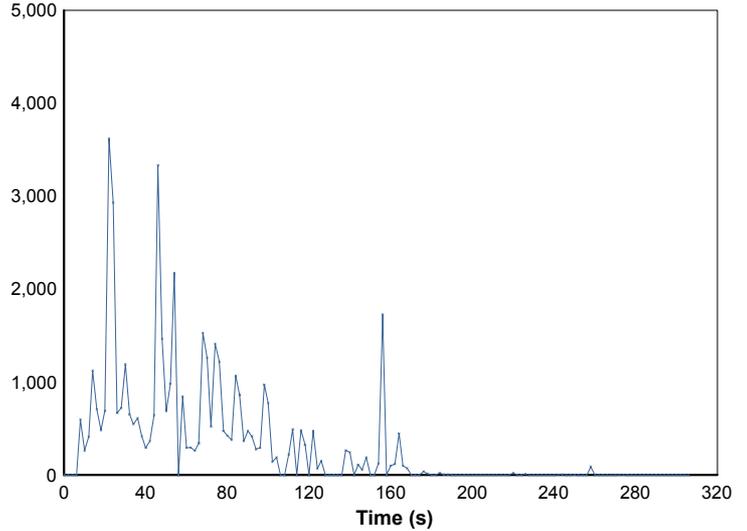
Effective heat of combustion (MJ/kg)



Smoke production rate (l/m²/s)



Specific extinction area (m²/kg)



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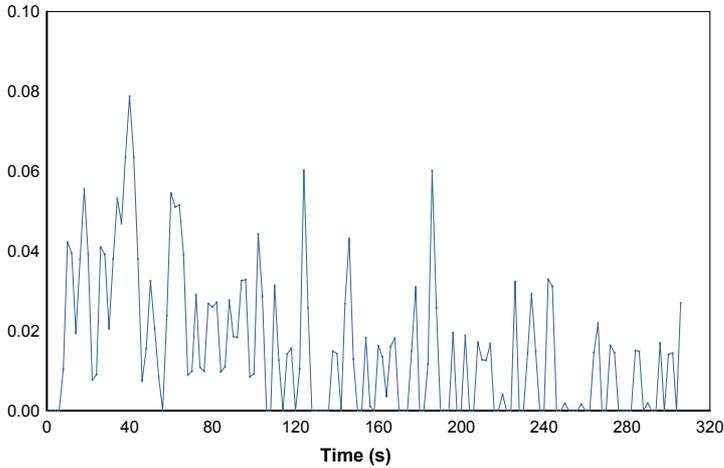
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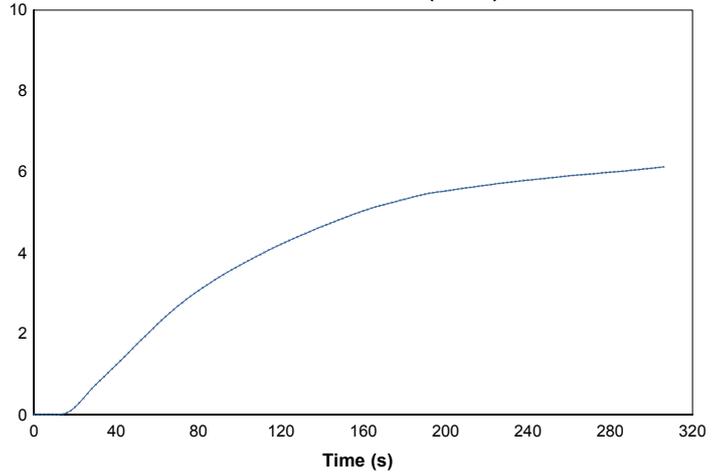
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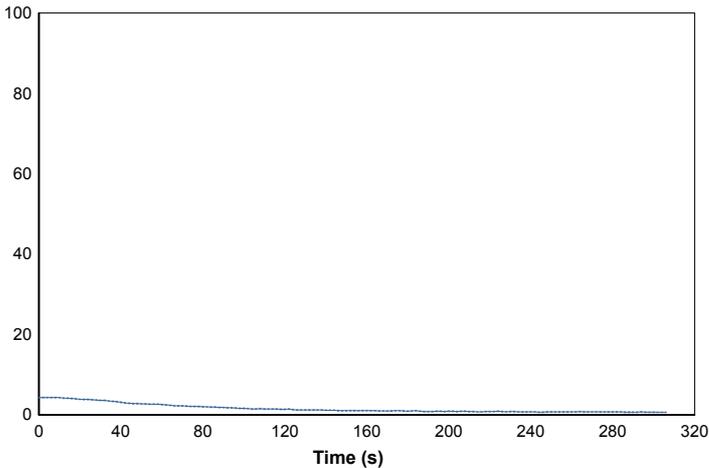
Mass loss rate (g/s)



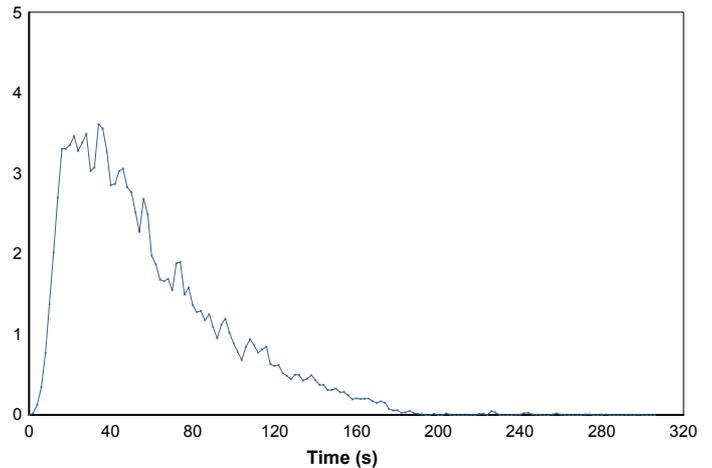
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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