

# 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 :** Orafol Australia  
8 Blanck Street  
Ormeau QLD 4208

**Test Number :** 20-002181  
**Issue Date :** 27/05/2020  
**Print Date :** 27/05/2020

**Sample Description** Clients Ref : "Orajel 3554"  
Self adhesive PVC film  
Colour : Multicolour  
End Use : Wall film applications  
Nominal Composition : PVC  
Nominal Thickness : 70 micron

### AS/NZS 3837-1998

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

Date Tested 27/05/2020  
Operator AWTA Test Operator 7  
Face Tested Multi color

	Specimen			Mean	
	1	2	3		
Average Heat Release Rate	26.1	23.0	25.8	24.9	kW/m <sup>2</sup>
Average Specific extinction area	48.0	47.4	50.4	48.6	m <sup>2</sup> /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 <sup>2</sup>
Exhaust flow rate	0.024	0.024	0.024	0.024	m <sup>3</sup> /s
Time to sustained flaming	7	6	5	6	sec
Test duration	222	236	242	233	sec
Peak heat release after ignition	128.7	107.8	129.1	121.9	kW/m <sup>2</sup>
Average heat at 60 s	59.6	54.3	62.6	58.8	kW/m <sup>2</sup>
Average heat at 180 s	29.3	28.0	31.3	29.5	kW/m <sup>2</sup>
Average heat at 300 s	n/a	n/a	n/a	n/a	kW/m <sup>2</sup>

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Total heat released	5.5	5.3	6.1	5.6	MJ/m <sup>2</sup>
Average effective heat of combustion	4.7	4.3	4.8	4.6	MJ/kg
Initial thickness	11	11	11	11.0	mm
Initial mass	57.6	57.2	58.8	57.9	g
Mass remaining	48.1	47.2	48.1	47.8	g
Mass percentage pyrolysed	16.5	17.5	18.2	17.4	%
Mass loss	1.2	1.2	1.3	1.2	kg/m <sup>2</sup>
Average rate of mass loss	5.5	5.3	5.4	5.4	g/m <sup>2</sup> .s

Additional Observations None

Difficulties Encountered during Testing None

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.

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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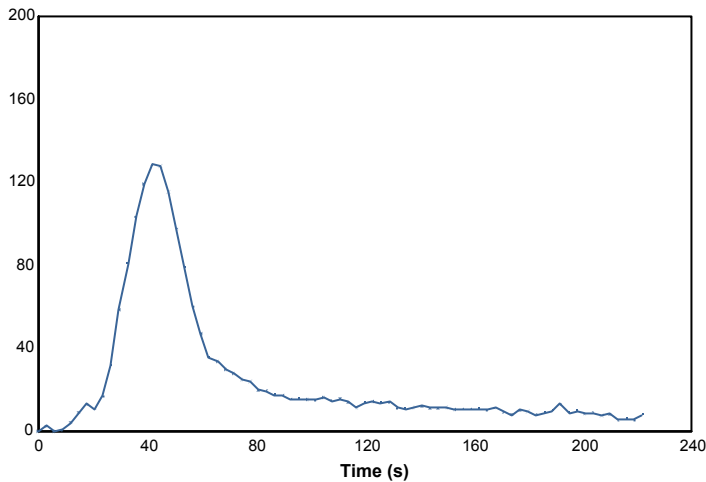
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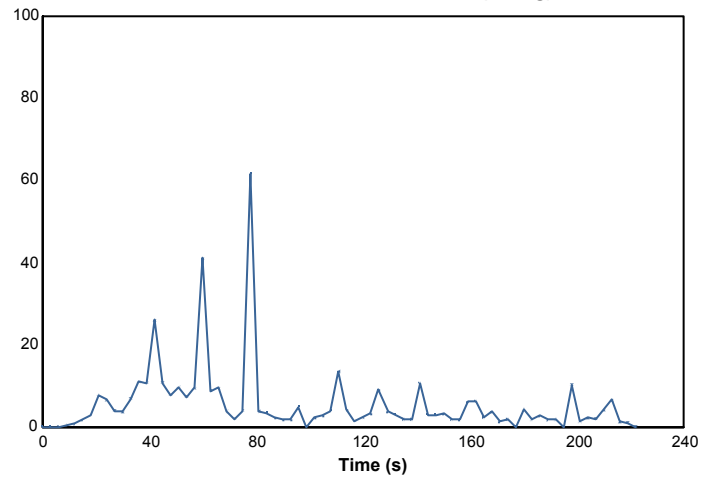
**Test Number :** 20-002181  
**Issue Date :** 27/05/2020  
**Print Date :** 27/05/2020

**Specimen :** 1

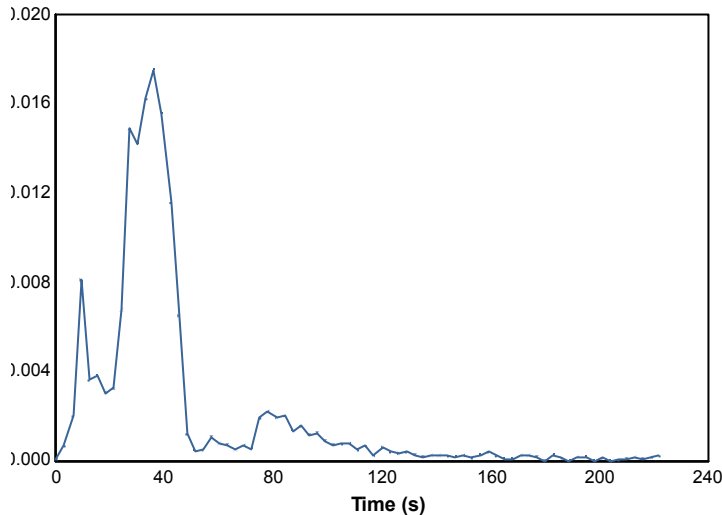
**Heat release rate (kW/m<sup>2</sup>)**



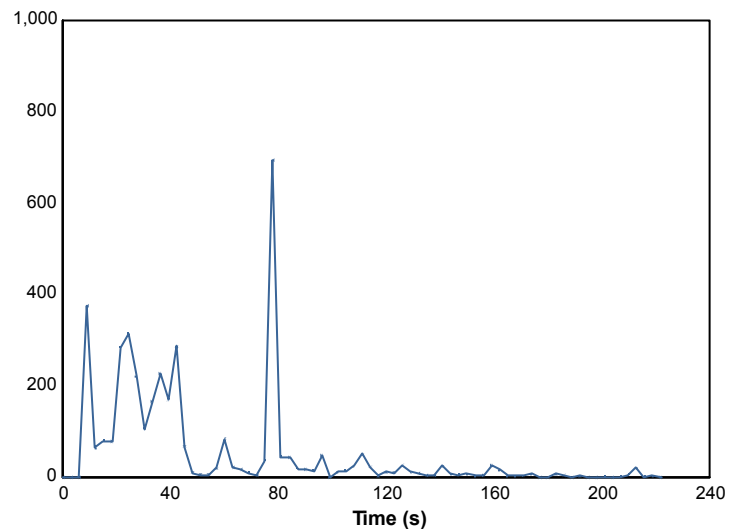
**Effective heat of combustion (MJ/kg)**



**Smoke production rate ([m<sup>2</sup>/s])**



**Specific extinction area (m<sup>2</sup>/kg)**



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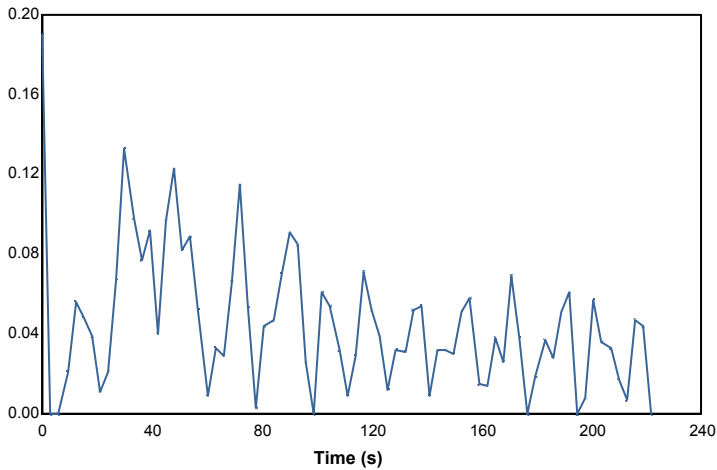
Phone (03) 9371 2400

## TEST REPORT

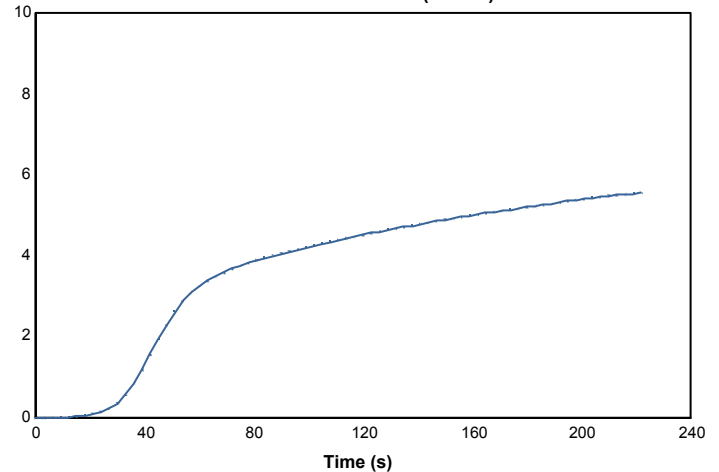
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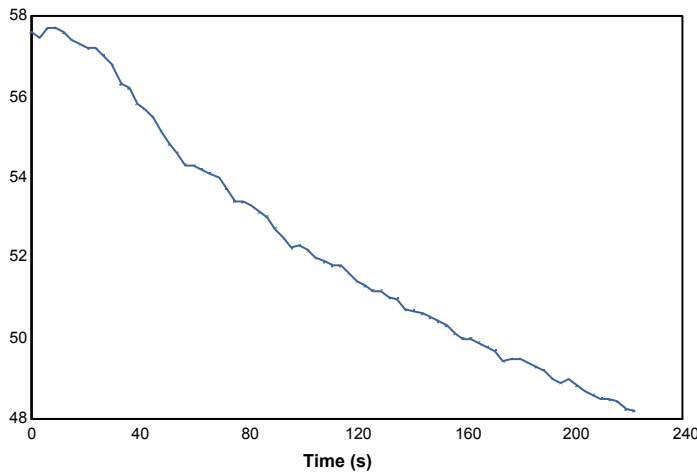
Mass loss rate (g/s)



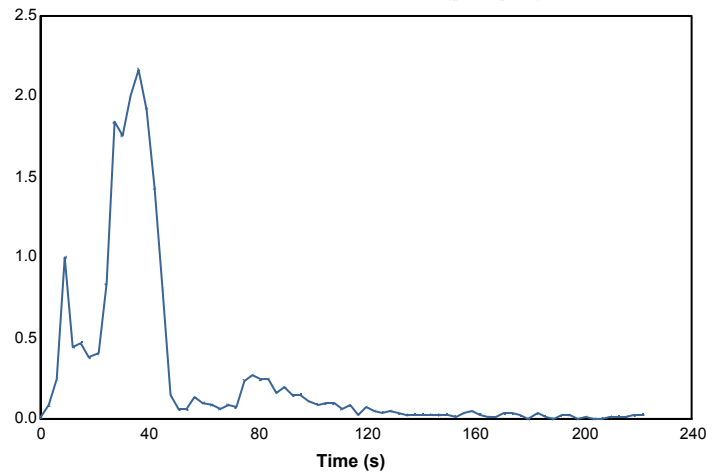
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s]/m<sup>2</sup>)



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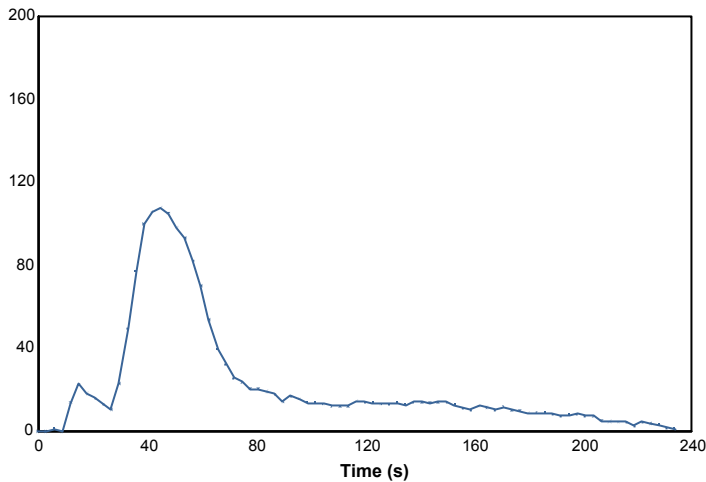
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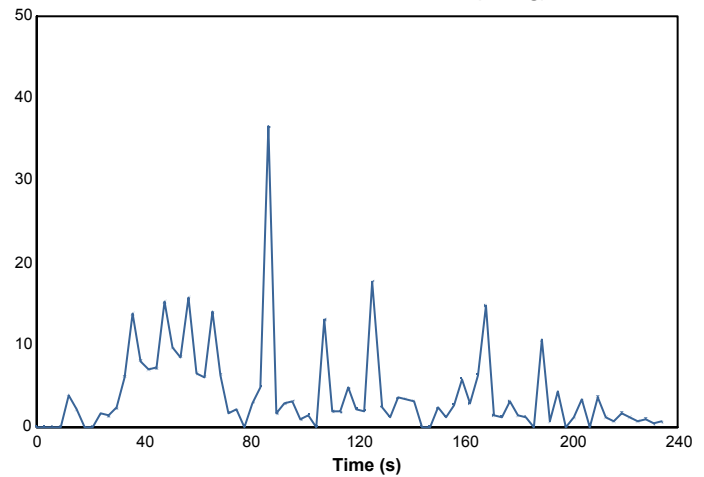
**Test Number :** 20-002181  
**Issue Date :** 27/05/2020  
**Print Date :** 27/05/2020

**Specimen :** 2

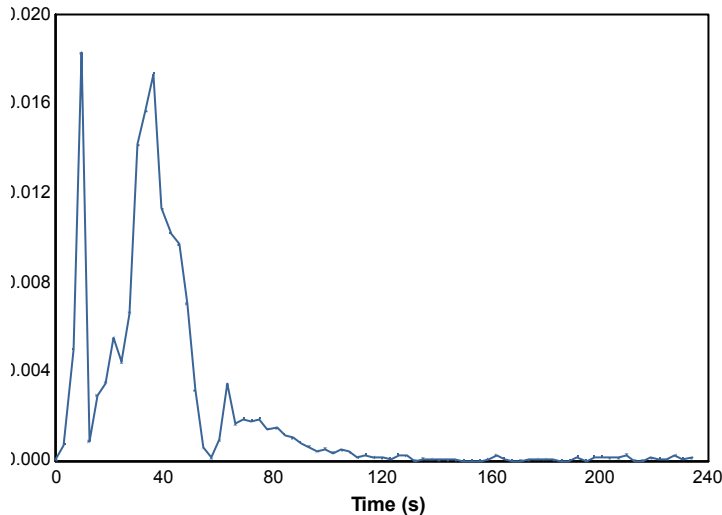
Heat release rate (kW/m<sup>2</sup>)



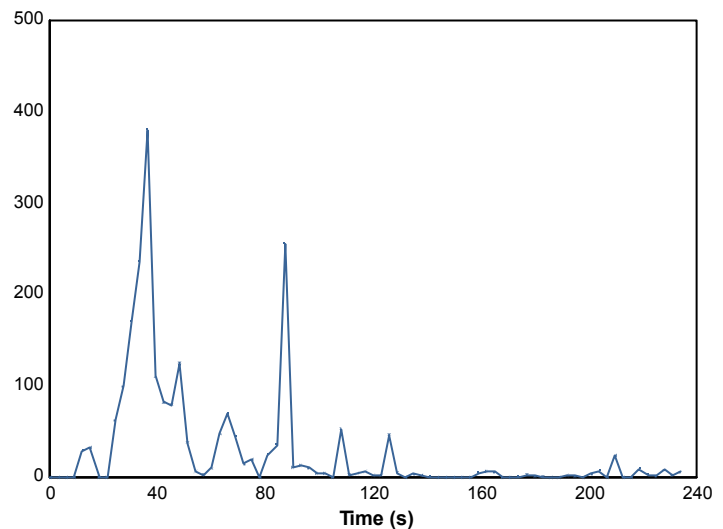
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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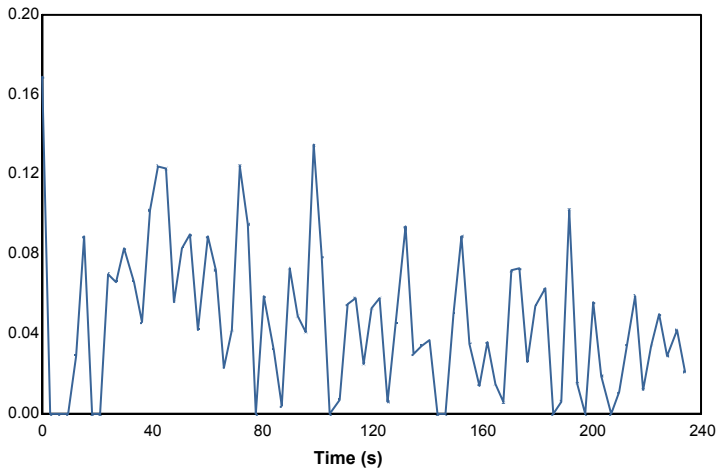
Phone (03) 9371 2400

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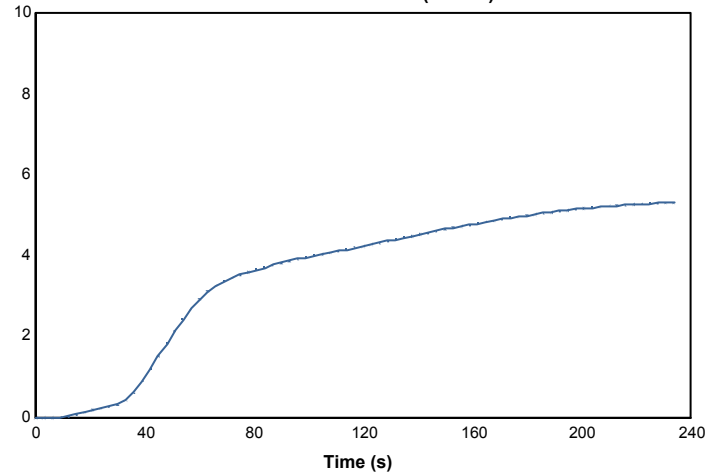
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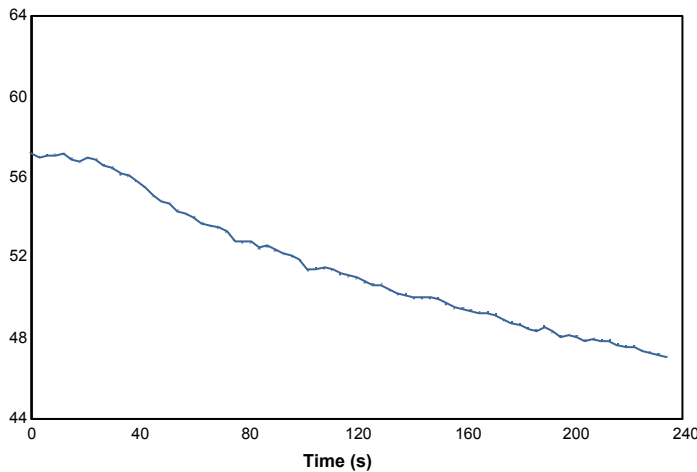
Mass loss rate (g/s)



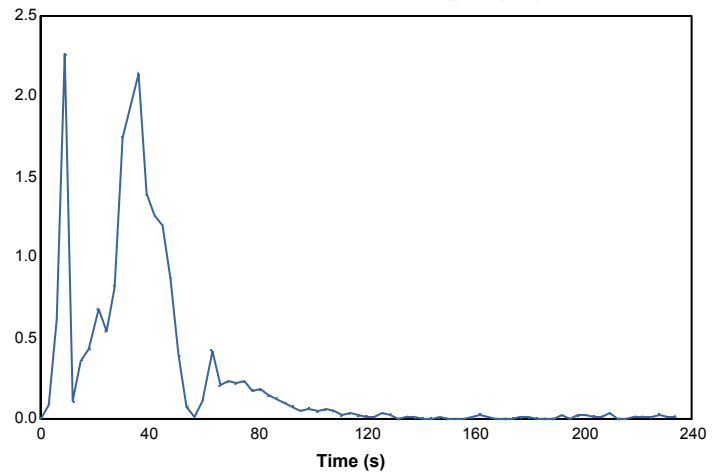
Total heat released (MJ/m²)



Mass (g)



Rate of smoke release ([m²/s]/m²)



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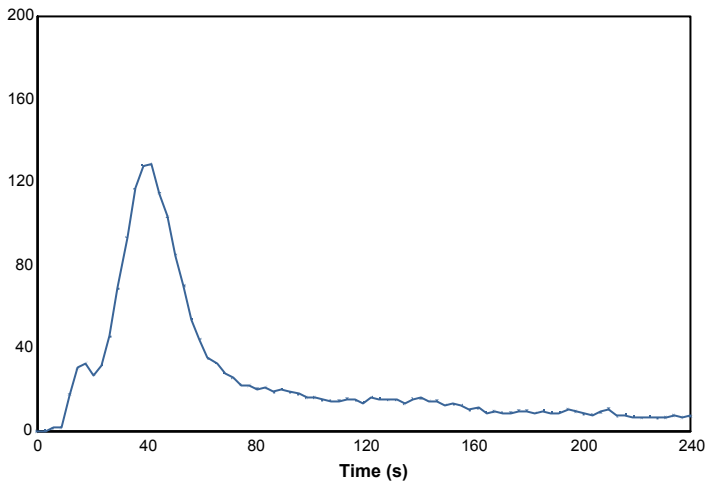
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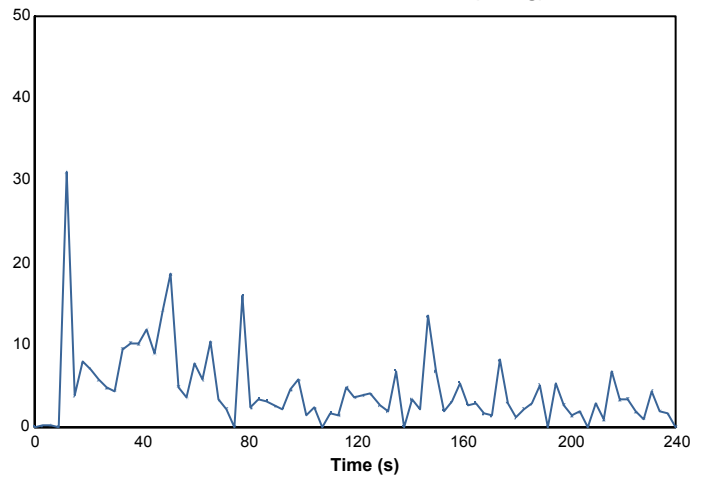
**Test Number :** 20-002181  
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**Specimen :** 3

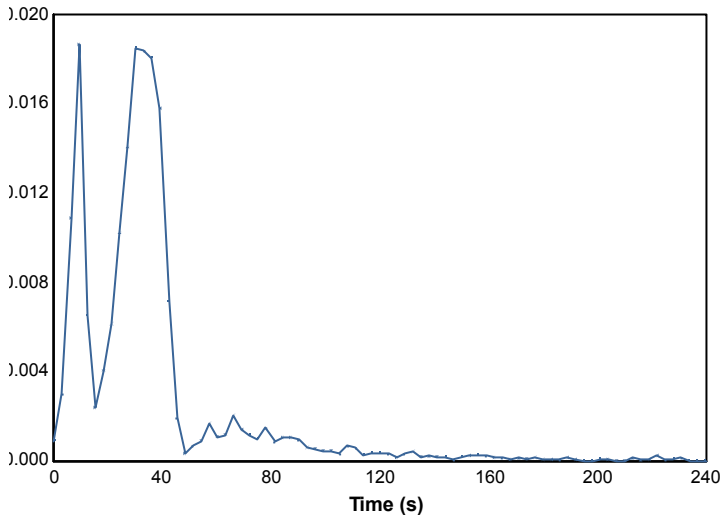
Heat release rate (kW/m<sup>2</sup>)



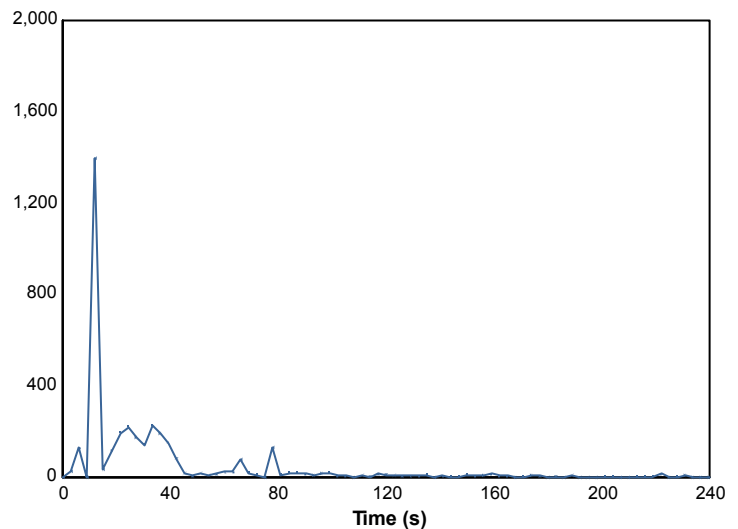
Effective heat of combustion (MJ/kg)



Smoke production rate ([m<sup>2</sup>/s])



Specific extinction area (m<sup>2</sup>/kg)



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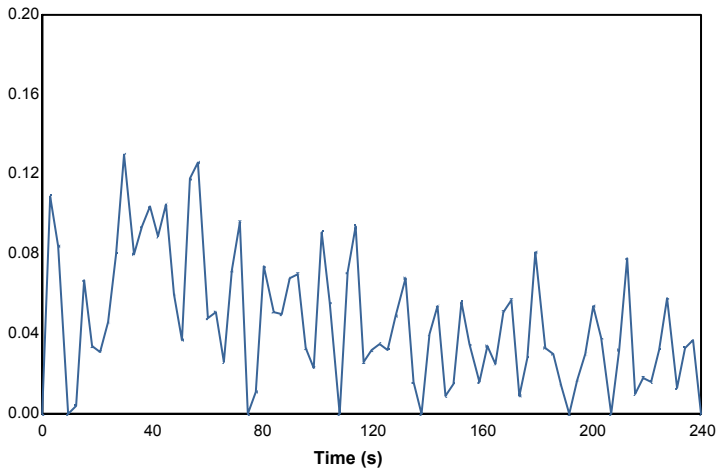
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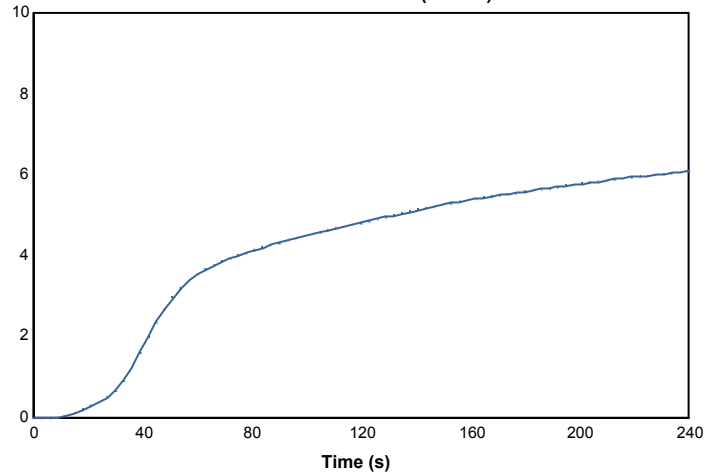
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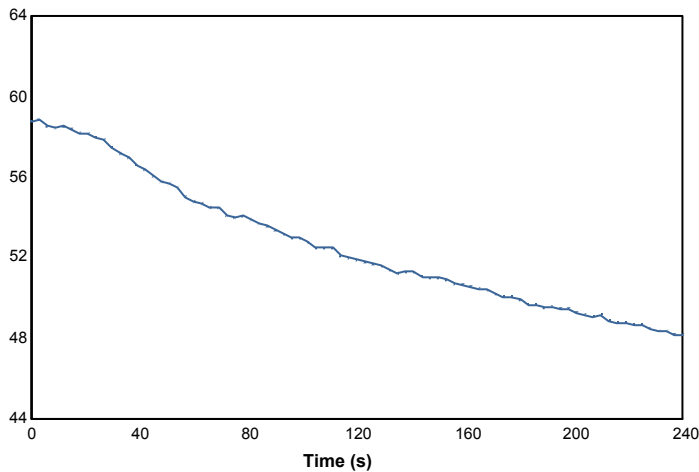
Mass loss rate (g/s)



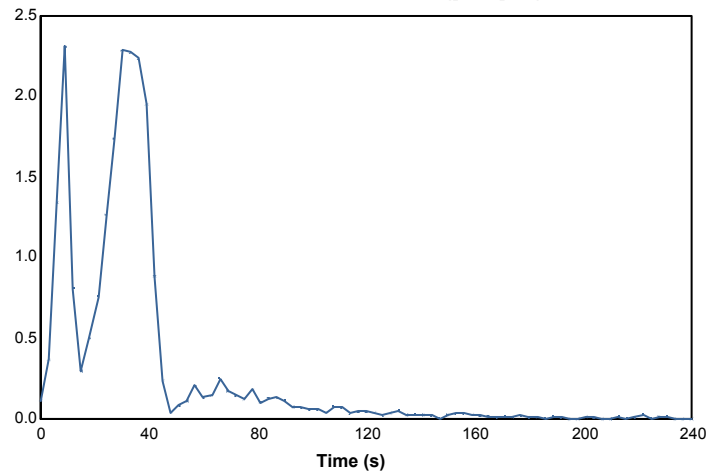
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



Rate of smoke release ([m<sup>2</sup>/s]/m<sup>2</sup>)



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