

# 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 :** 21-001328  
**Issue Date :** 30/03/2021  
**Print Date :** 15/04/2021  
**Order Number :** 17395

**Sample Description** Clients Ref : "8510 Oracal"  
Flexible self adhesive film  
Colour : Silver  
End Use : Wall covering  
Nominal Composition : PVC  
Nominal Thickness : 80 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 30-03-2021  
Face Tested FACE

	Specimen				Mean	
	1	2	3			
Average Heat Release Rate	fti	fti	fti	fti	kW/m <sup>2</sup>	
Average Specific extinction area	n/a	n/a	n/a	n/a	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	fti	fti	fti	fti	sec	
Test duration	600	600	600	600	sec	
Initial thickness	10.1	10.1	10.1	10.1	mm	
Initial mass	59.4	58.9	59.5	59.3	g	
Mass at sustained flaming	n/a	n/a	n/a	n/a	g	
Mass remaining	n/a	n/a	n/a	n/a	g	
Mass percentage pyrolysed	n/a	n/a	n/a	n/a	%	

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Page 1 of 8

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Fiona McDonald

APPROVED SIGNATORY

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

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Mass loss	n/a	n/a	n/a	n/a	kg/m <sup>2</sup>
Average rate of mass loss	n/a	n/a	n/a	n/a	g/m <sup>2</sup> .s
Additional Observations	NONE				
Difficulties Encountered during Testing	NONE				

fti = failed to ignite

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. Specimens were self-adhered to 10mm thick plasterboard prior to testing

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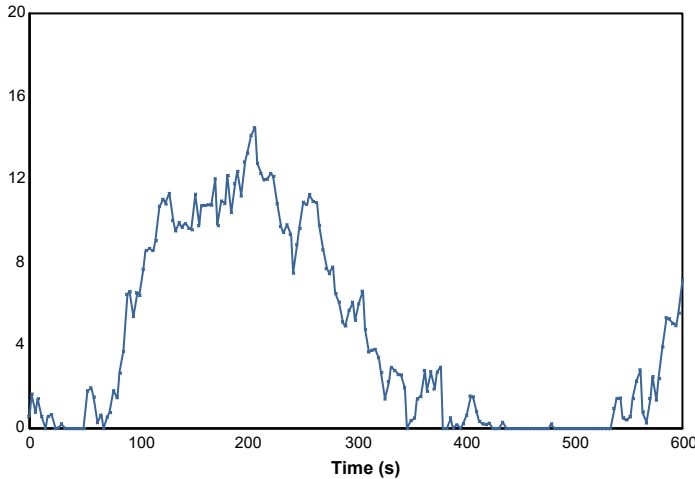
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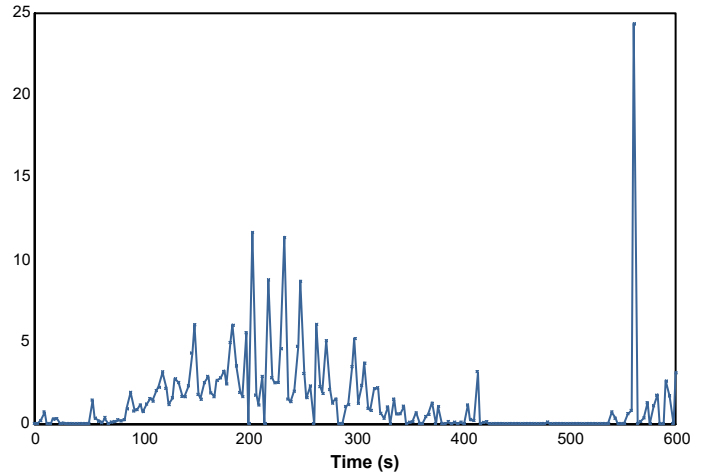
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**Specimen :** 1

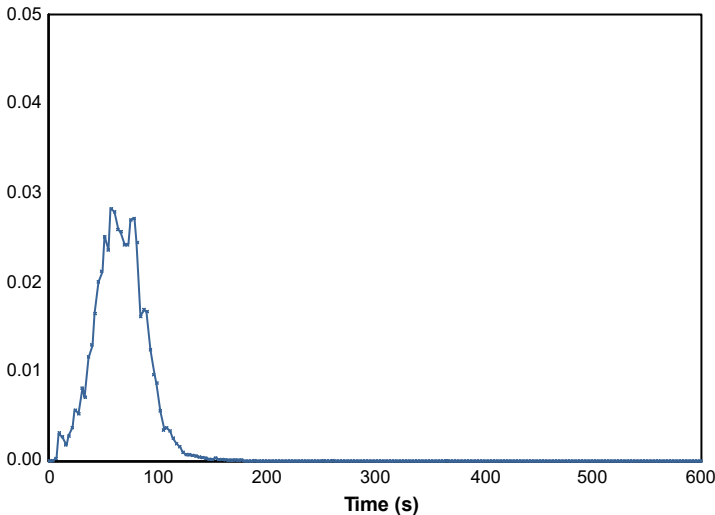
**Heat release rate (kW/m<sup>2</sup>)**



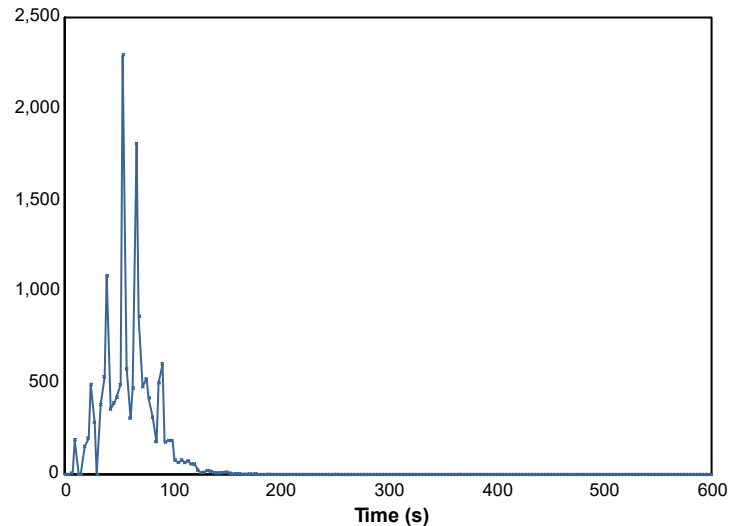
**Effective heat of combustion (MJ/kg)**



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



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



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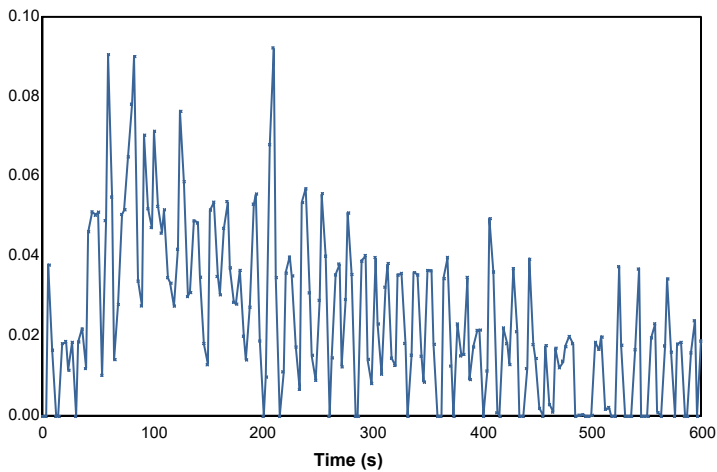
Phone (03) 9371 2400

## TEST REPORT

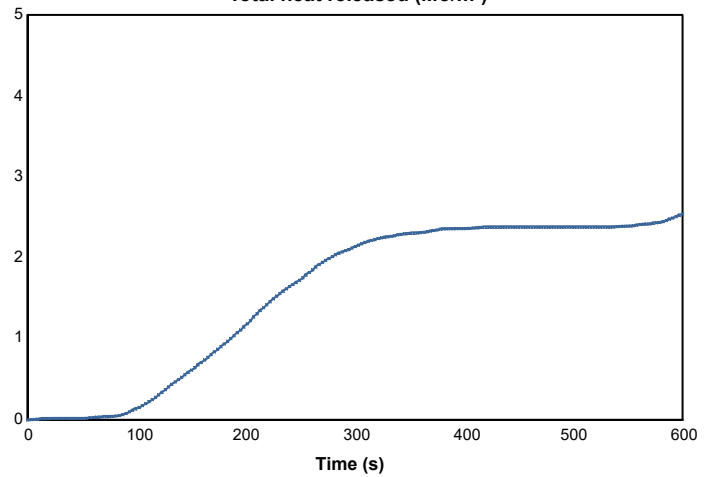
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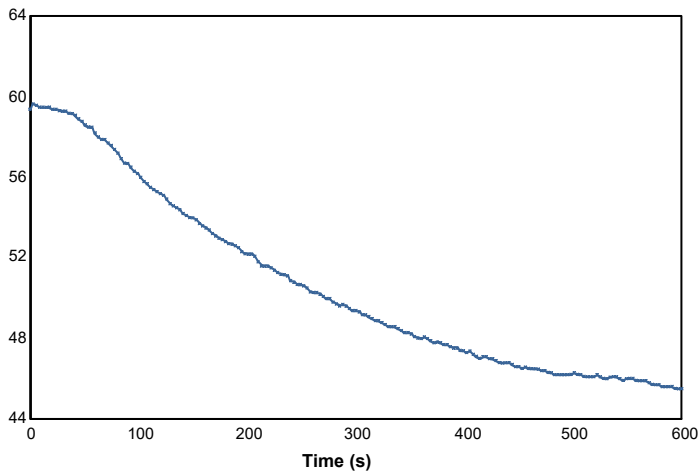
Mass loss rate (g/s)



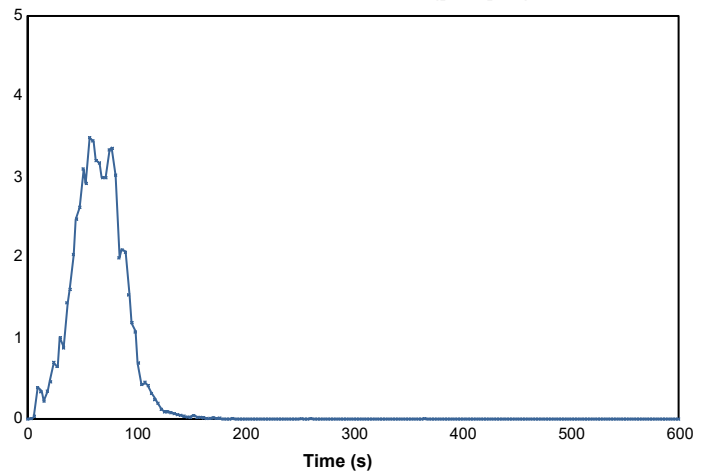
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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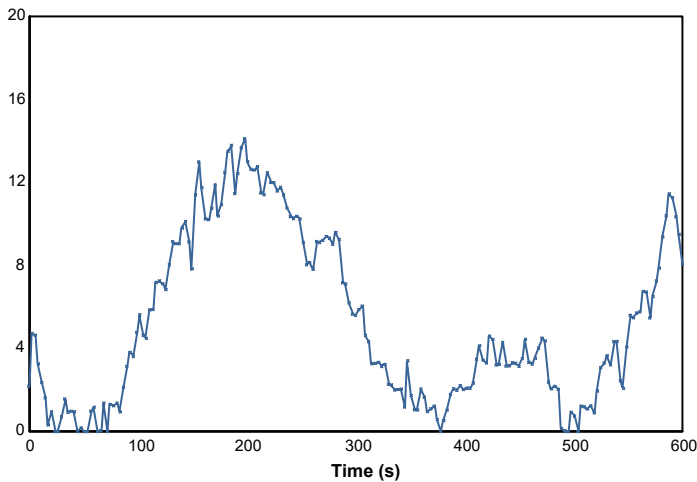
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**Client :** Orafol Australia  
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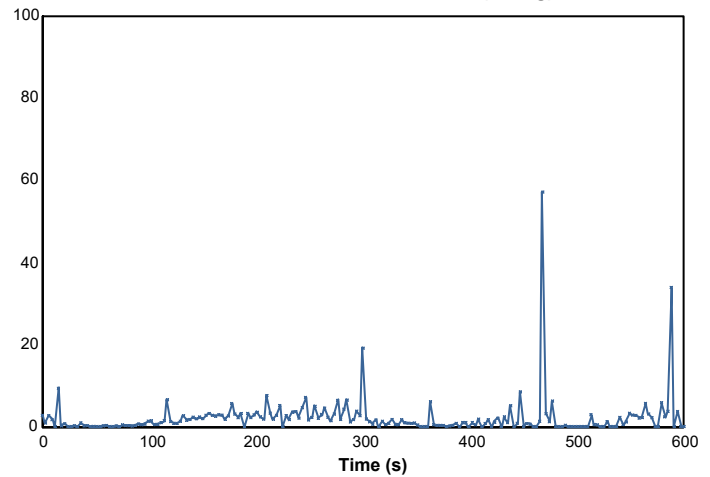
**Test Number :** 21-001328  
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**Specimen :** 2

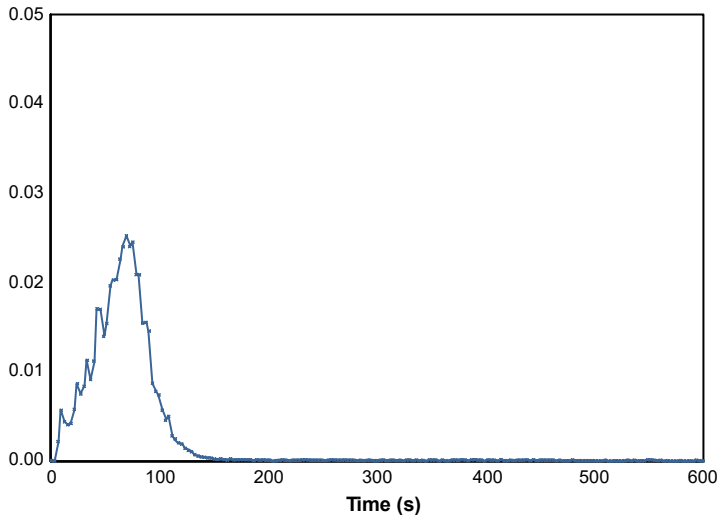
**Heat release rate (kW/m<sup>2</sup>)**



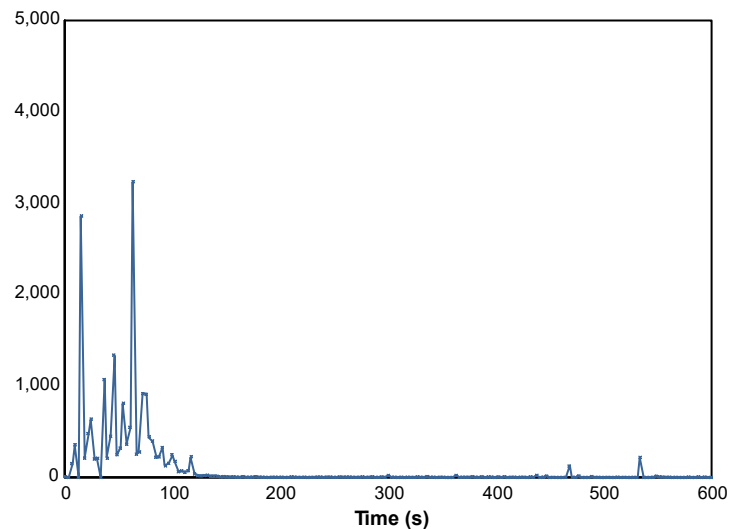
**Effective heat of combustion (MJ/kg)**



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



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



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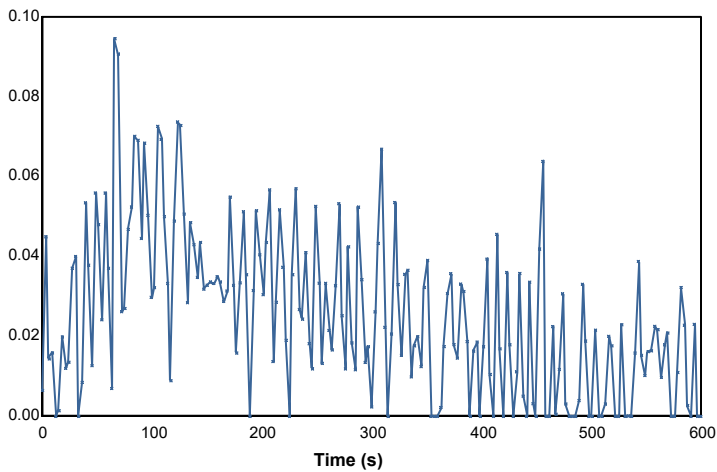
Phone (03) 9371 2400

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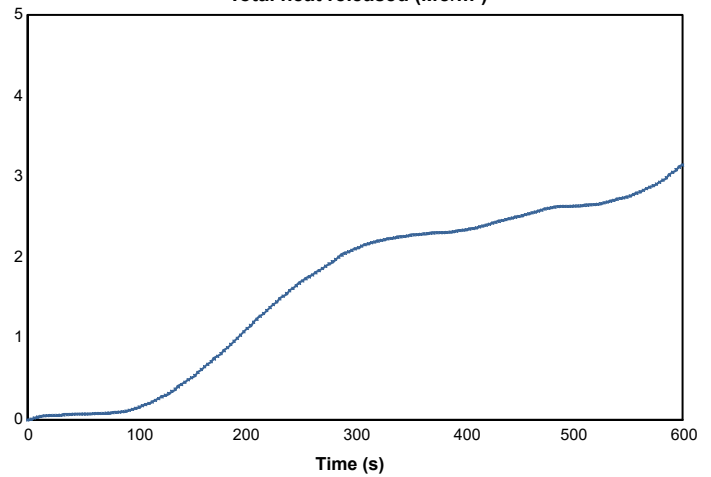
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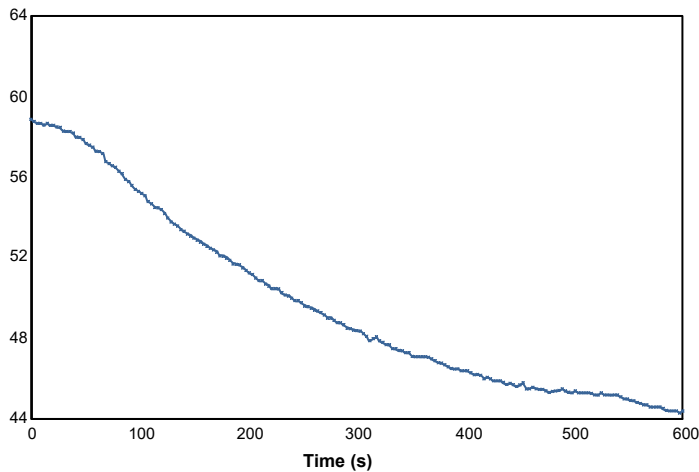
Mass loss rate (g/s)



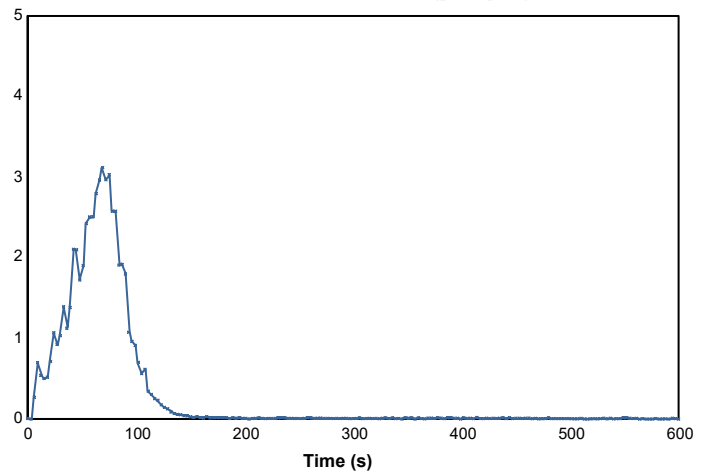
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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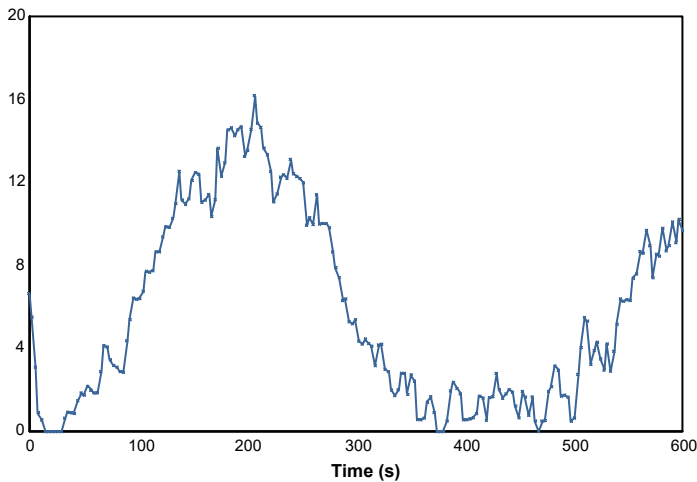
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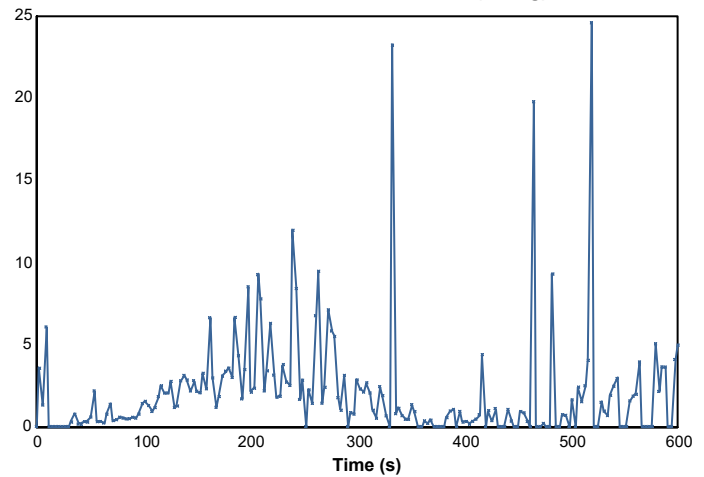
**Test Number :** 21-001328  
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**Specimen :** 3

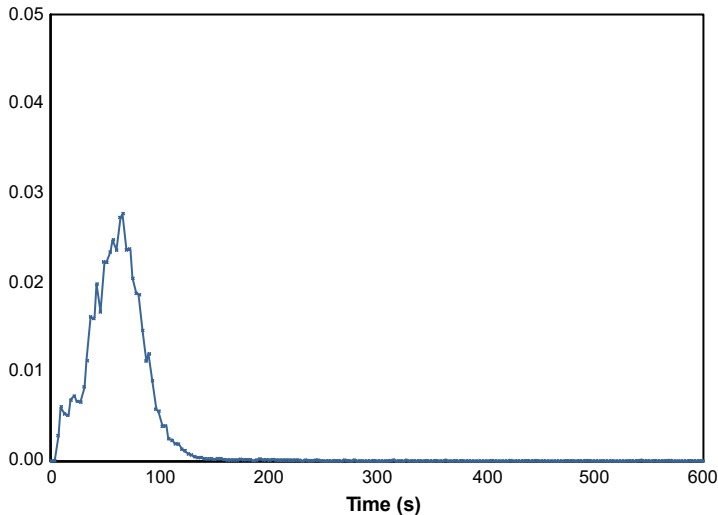
Heat release rate (kW/m<sup>2</sup>)



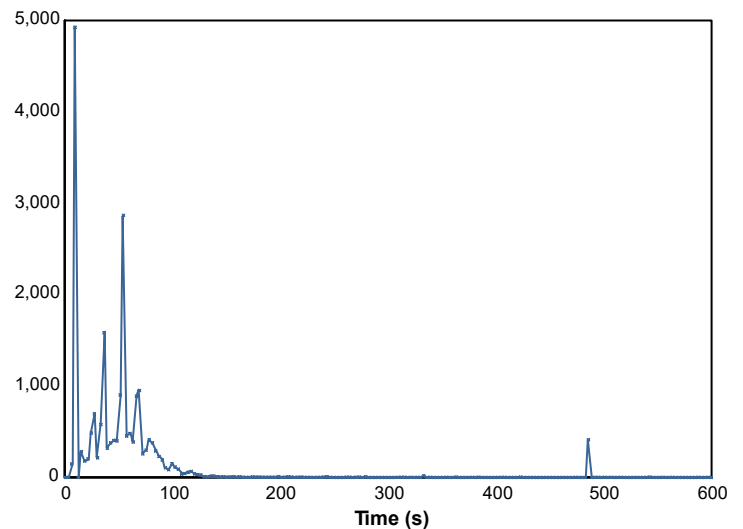
Effective heat of combustion (MJ/kg)



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



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



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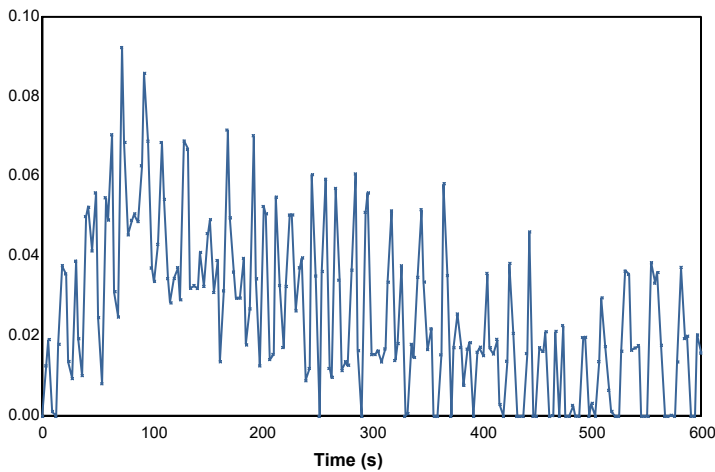
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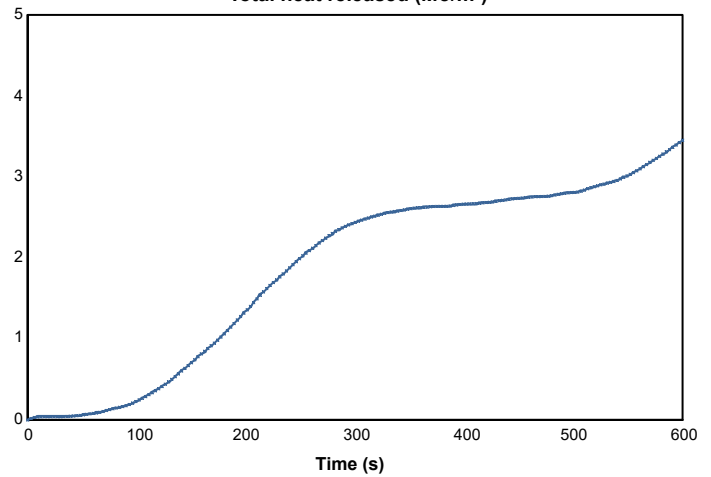
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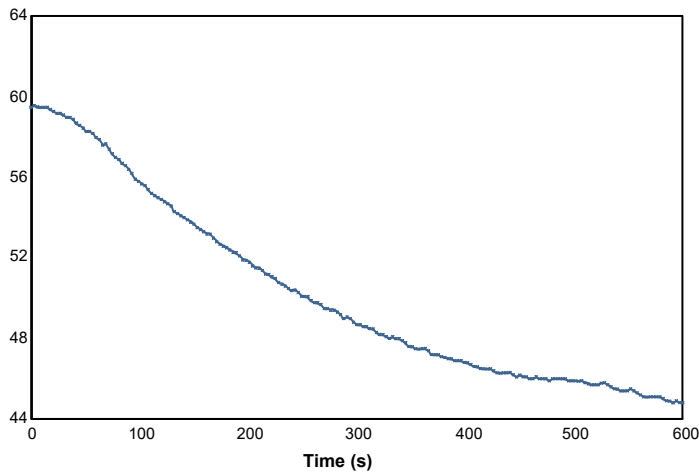
Mass loss rate (g/s)



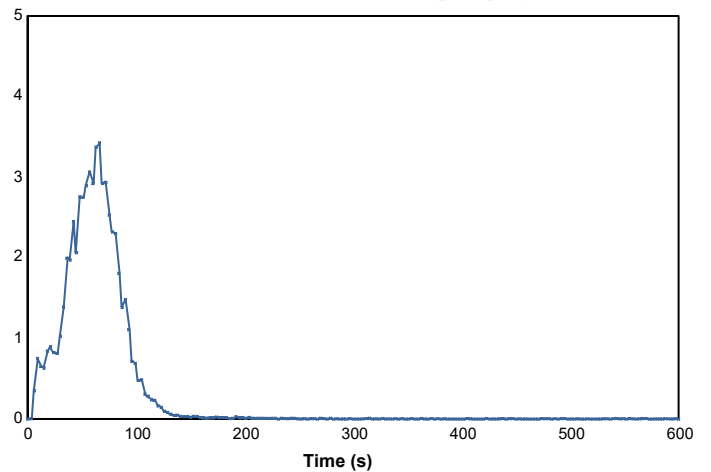
Total heat released (MJ/m<sup>2</sup>)



Mass (g)



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



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