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: Warwick Fabrics Aust Pty Ltd

6-10 Sackville Street Collingwood VIC 3066 Test Number : 20-005409 Issue Date : 30/10/2020

Print Date : 30/10/2020

Sponsor Product Clients Ref: "Octarius" Cara Hunt

Woven textile fabric Colour : Green

Nominal Composition: 75% Wool, 12% Acrylic, 11% Polyester, 2% Nylon

Nominal Mass per Unit Area/Density: 330g/m2

Nominal Thickness: 1mm

Product Group Number Classification :

Average Specific Extinction Area: 56.4 m²/kg

Albeld

Fiona McDonald Testing Technologist

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TEST REPORT

Client: Warwick Fabrics Aust Pty Ltd

6-10 Sackville Street Collingwood VIC 3066 **Test Number** : 20-005409

Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555

Sample Description Clients Ref : "Octarius" Cara Hunt

Woven textile fabric Colour: Green

Nominal Composition: 75% Wool, 12% Acrylic, 11% Polyester, 2% Nylon

Nominal Mass per Unit Area/Density: 330g/m2

Nominal Thickness: 1mm

AS/NZS 3837-1998 Method of Test for Heat and Smoke Release Rates for Materials and Products using an Oxygen

Consumption Calorimeter

Date Tested 30/10/2020 Face Tested Green

Specimen

	1	2	3	4	5	6	Mean	
Average Heat Release Rate	22.0	16.7	21.9	14.6	15.9	21.7	18.8	kW/m²
Average Specific extinction area	52.1	72.7	61.5	41.8	55.0	55.2	56.4	m²/kg

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

Test orientation: Horizontal

lest orientation : Horizontal								
	Specimen							
	1	2	3	4	5	6	Mear	ı
Irradiance	50	50	50	50	50	50	50	kW/m²
Exhaust flow rate	0.024	0.024	0.024	0.024	0.024	0.024	0.024	m³/s
Time to sustained flaming	14	15	15	19	20	14	16	sec
Test duration	228	205	207	225	239	210	219	sec
Peak heat release after ignition	162.4	151.2	158.6	126.8	114.2	154.4	144.6	kW/m²
Average heat at 60 s	71.8	52.7	65.9	51.8	58.0	66.2	61.1	kW/m²

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TEST REPORT

Client: Warwick Fabrics Aust Pty Ltd

6-10 Sackville Street Collingwood VIC 3066 Test Number : Issue Date :

20-005409 30/10/2020

Print Date

30/10/2020

Order Number :

1616555

Average heat at 180 s	25.3	17.7	23.1	16.7	19.4	23.5	20.9	kW/m²
Average heat at 300 s	n/a	kW/m²						
Total heat released	4.7	3.3	4.2	3.2	3.6	4.3	3.9	MJ/m²
Ave. effective heat of combustion	3.1	2.6	2.8	1.9	2.4	2.7	2.6	MJ/kg
Initial thickness	7	7	7	7	7	7	7.0	mm
Initial mass	91.7	90.9	86.5	86.4	86.0	85.1	87.8	g
Mass at sustained flaming	91.4	90.7	86.3	86.1	85.9	85.1	87.6	g
Mass remaining	79.5	8.08	74.2	73.6	74.4	72.5	75.8	g
Mass percentage pyrolysed	13.3	11.1	14.2	14.8	13.5	14.8	13.6	%
Mass loss	1.5	1.2	1.5	1.6	1.4	1.6	1.5	kg/m²
Average rate of mass loss	7.1	6.5	7.9	7.8	6.6	7.9	7.3	g/m².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.

Samples were loose laid onto a substrate of 6mm thick cement sheeting prior to testing.

Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescing sample within the sample holder.

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MICHAEL A. JACKSON B.Sc.(Hone

APPROVED SIGNATORY

0204/11/06

NTA Product Testing

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TEST REPORT

Warwick Fabrics Aust Pty Ltd Client:

> 6-10 Sackville Street Collingwood VIC 3066

20-005409 Test Number :

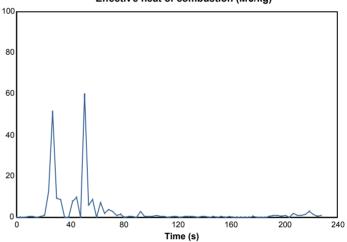
Issue Date 30/10/2020 30/10/2020 **Print Date**

1616555 Order Number:

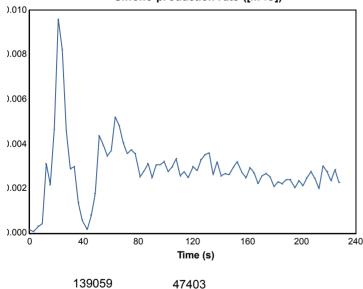
Specimen:

Heat release rate (kW/m²) 200 160 120 80 40 40 120 160 200 240 Time (s)

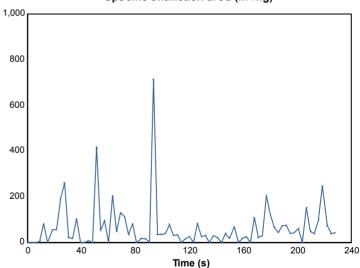
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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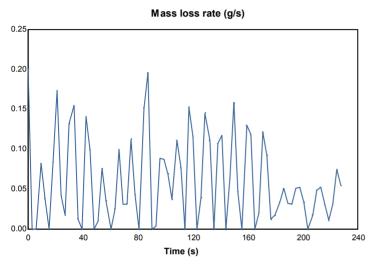
TEST REPORT

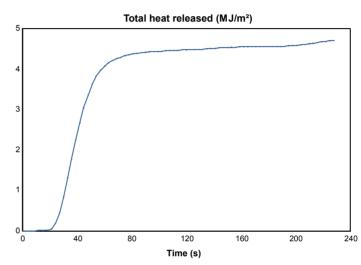
Client: Warwick Fabrics Aust Pty Ltd

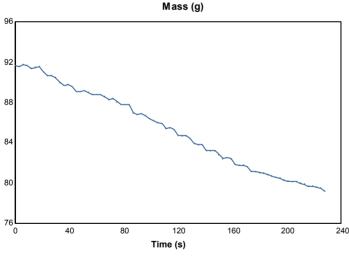
6-10 Sackville Street Collingwood VIC 3066 **Test Number** : 20-005409

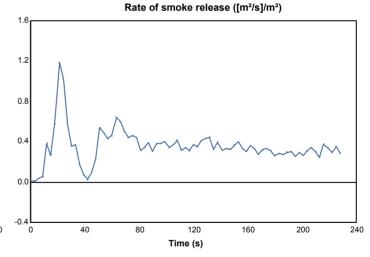
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555









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TEST REPORT

Client: Warwick Fabrics Aust Pty Ltd

6-10 Sackville Street
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Test Number : 20-005409

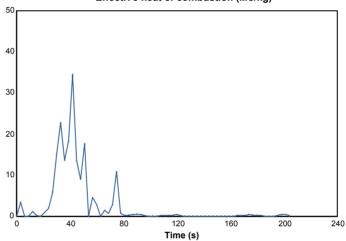
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555

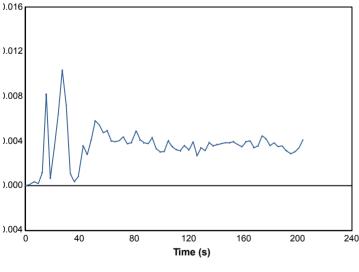
Specimen: 2

Heat release rate (kW/m²) 160 120 80 40 0 40 80 120 160 200 240 Time (s)

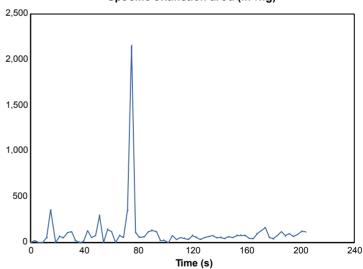
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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TEST REPORT

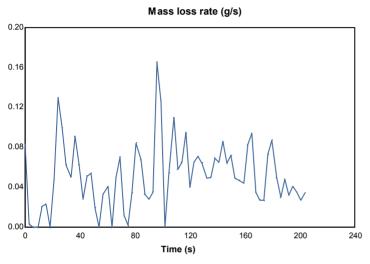
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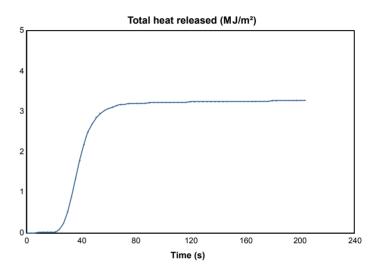
6-10 Sackville Street
Collingwood VIC 3066

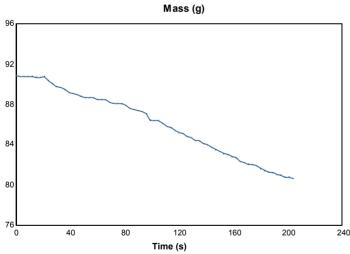
Test Number : 20-005409 Issue Date : 30/10/2020

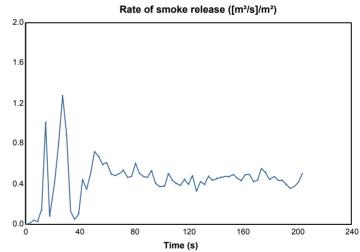
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555









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TEST REPORT

Client: Warwick Fabrics Aust Pty Ltd

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Test Number : 20-005409

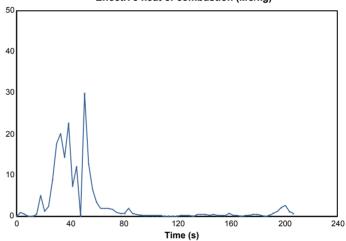
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555

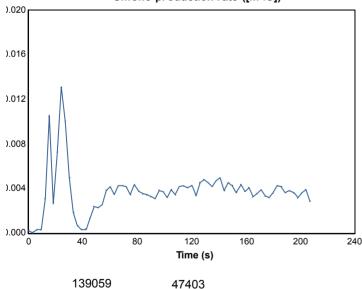
Specimen: 3

Heat release rate (kW/m²) 160 120 80 40 Time (s)

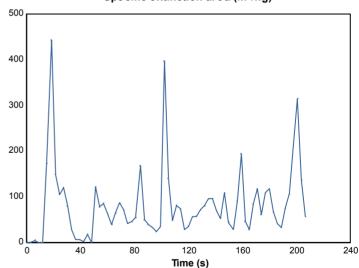
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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TEST REPORT

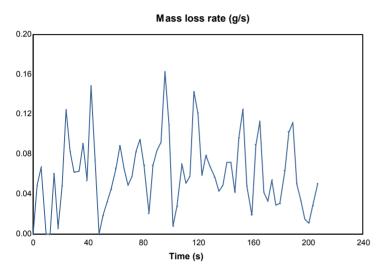
Client: Warwick Fabrics Aust Pty Ltd

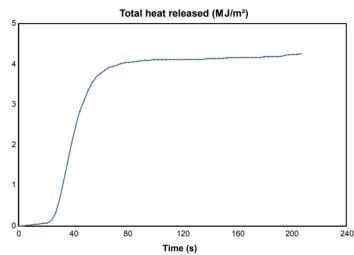
6-10 Sackville Street
Collingwood VIC 3066

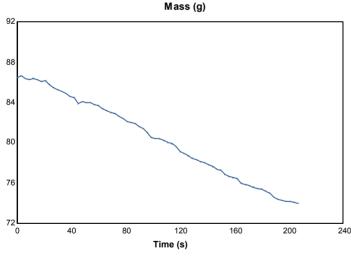
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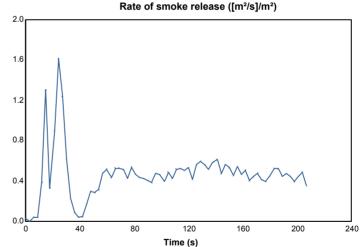
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555









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TEST REPORT

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6-10 Sackville Street
Collingwood VIC 3066

Test Number : 20-005409

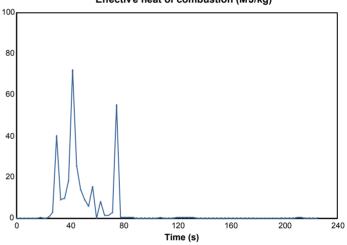
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555

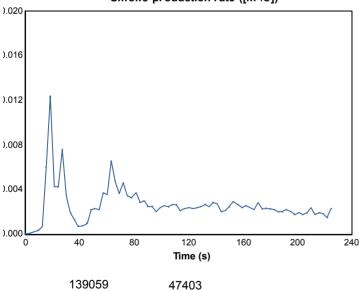
Specimen: 4

Heat release rate (kW/m²) 160 120 80 40 0 40 80 120 160 200 240 Time (s)

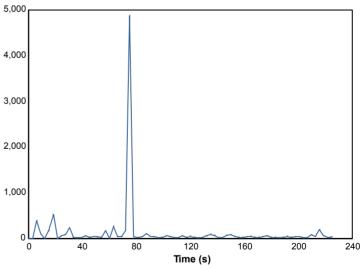
Effective heat of combustion (MJ/kg)



Smoke production rate ([m²/s])



Specific extinction area (m²/kg)



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TEST REPORT

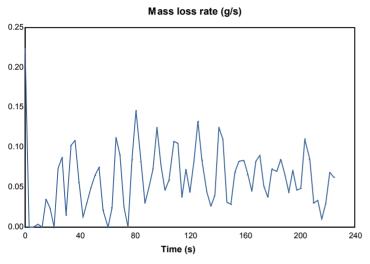
Client: Warwick Fabrics Aust Pty Ltd

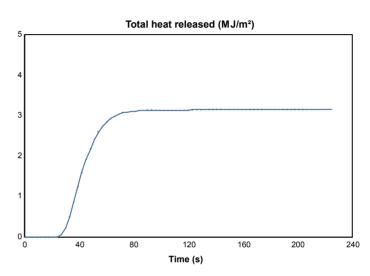
6-10 Sackville Street
Collingwood VIC 3066

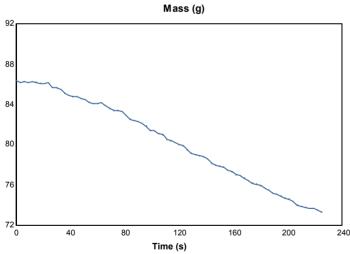
Test Number : 20-005409 Issue Date : 30/10/2020

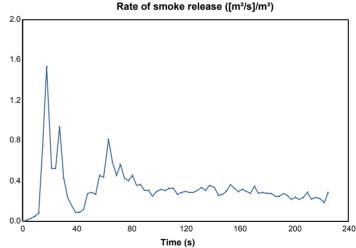
Print Date : 30/10/2020

Order Number: 1616555









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TEST REPORT

Client: Warwick Fabrics Aust Pty Ltd

6-10 Sackville Street
Collingwood VIC 3066

Test Number : 20-005409

Issue Date : 30/10/2020 Print Date : 30/10/2020

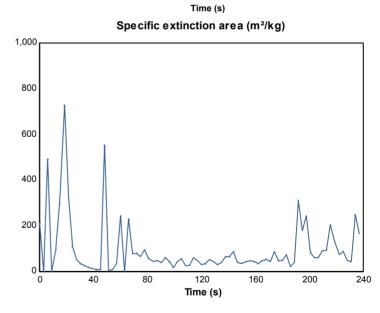
Order Number: 1616555

Specimen: 5

Heat release rate (kW/m²) 160 120 80 40 40 80 120 160 200 240 Time (s)

20 16 12 8 4

3.004 3.004 3.004 3.004 3.004 40 80 120 160 200 240 Time (s)



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TEST REPORT

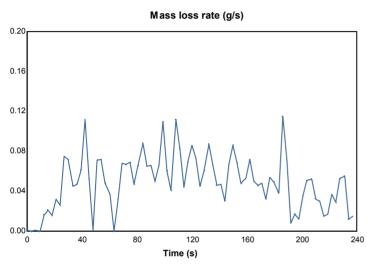
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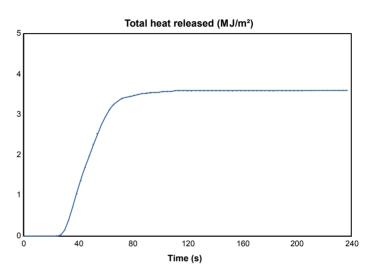
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Collingwood VIC 3066

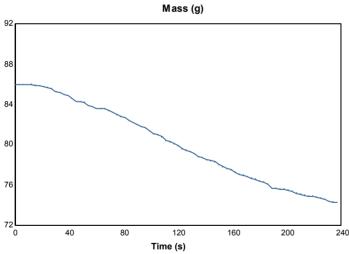
Test Number : 20-005409

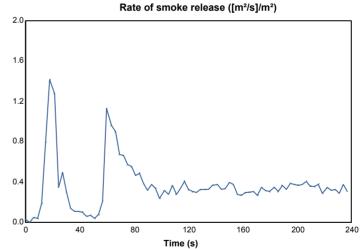
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555









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TEST REPORT

100

60

40

Client: Warwick Fabrics Aust Pty Ltd

6-10 Sackville Street
Collingwood VIC 3066

Test Number : 20-005409

Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555

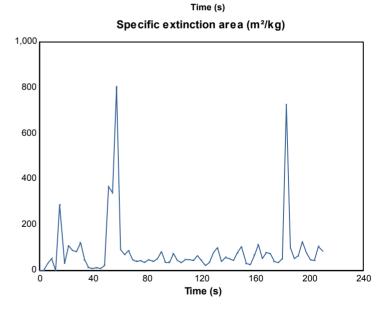
Specimen: 6

Heat release rate (kW/m²) 160 120 80 40 Time (s)

Effective heat of combustion (MJ/kg)

120

Smoke production rate ([m²/s])).020).016 012).008).004).000 40 80 120 160 240 200 Time (s) 139059 47403



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TEST REPORT

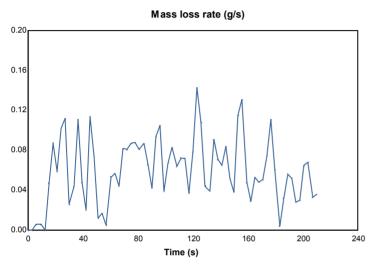
Client: Warwick Fabrics Aust Pty Ltd

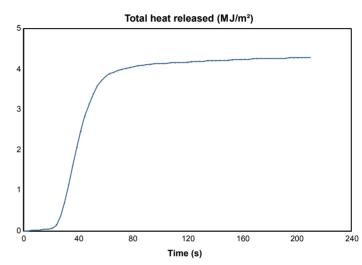
6-10 Sackville Street
Collingwood VIC 3066

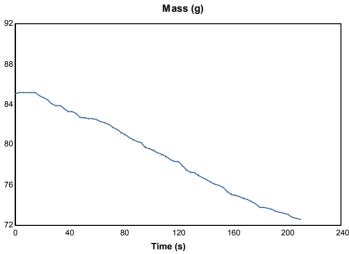
Test Number : 20-005409

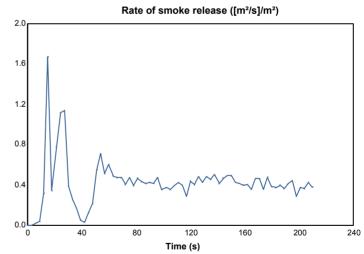
Issue Date : 30/10/2020 Print Date : 30/10/2020

Order Number: 1616555









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