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

AWTA PRODUCT TESTING

Client :	Materialised Pty Ltd	Test Number	:	18-003326
	19 Heath Road	Issue Date	:	23/06/2018
	Blakehurst NSW 2221	Print Date	:	28/06/2018

Sample Description	Clients Ref : "Silica"
	Coated knitted textile
	Colour: Alloy
	Nominal Composition : Silicone coated polyester
	Nominal Mass per Unit Area/Density : 1.6 lb
	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

	Specimen				
	1	2	3	Mean	
Average Heat Release Rate	36.4	40.4	41.7	39.5	kW/m²
Average Specific extinction area	153.8	189.4	190.1	177.7	m²/kg

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

Test orientation : Horizontal

		Specimen			
	1	2	3	Mean	
Irradiance	50	50	50	50	kW/m²
Exhaust flow rate	24	24	24	24	L/sec
Time to sustained flaming	158	206	163	176	sec
Test duration	564	492	486	514	sec
Peak heat release after ignition	103.4	105.0	104.5	104.3	kW/m²
Average heat at 60 s	48.3	81.0	57.0	62.1	kW/m²
Average heat at 180 s	57.9	54.5	63.0	58.5	kW/m²
Average heat at 300 s	45.0	40.4	43.7	43.0	kW/m²
Total heat released	14.8	11.9	13.7	13.5	MJ/m²

82863

C Australian Wool testing Authority Ltd Copyright - All Rights Reserved



28474

23/06/2018

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

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

Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by the Managing Director of AWTA Ltd.



Page 1 of 8



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 : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221			ŀ	Fest Number : ssue Date : Print Date :	00/00/0010
Average effective heat of combustion	9.4	9.1	9.2	9.2	MJ/kg
Initial thickness	7.0	7.0	7.0	7.0	mm
Initial mass	90	90.5	91.8	90.8	g
Mass remaining	74.0	75.5	76.6	75.4	g
Mass percentage pyrolysed	17.8	16.5	16.5	16.9	%
Mass loss	16.0	15.0	15.2	15.4	g
Average rate of mass loss	3.9	4.4	4.5	4.3	g/m².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 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.

82863

28474

Australian Wool testing Authority Ltd Copyright - All Rights Reserved C



the Managing Director of AWTA Ltd.

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

Samples and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. This document shall not be reproduced except in full and shall be rendered void if amended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved by

Accreditation No Accreditation No : Accreditation No 1356

983

985

Page 2 of 8



APPROVED SIGNATORY

0204/11/06

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

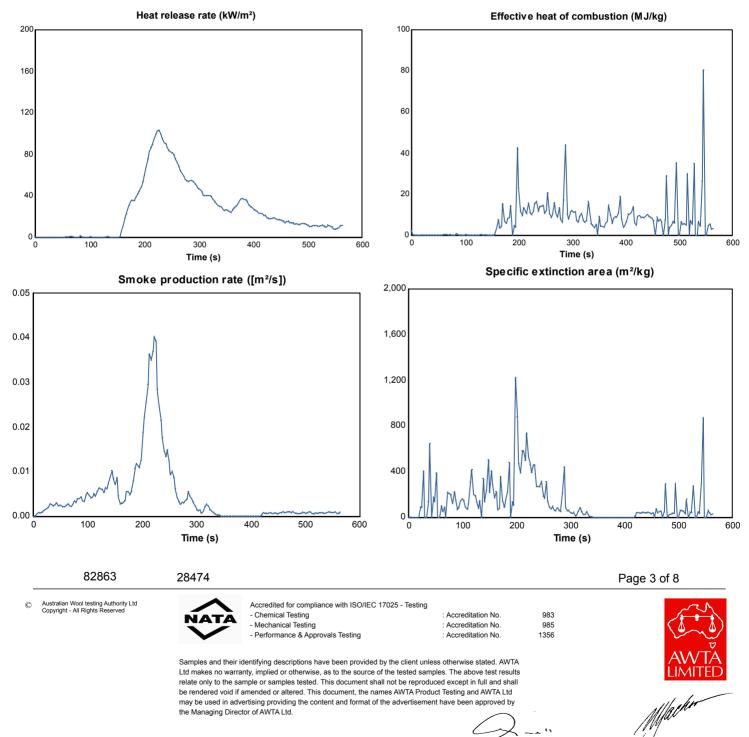
TEST REPORT

Client : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221
 Test Number
 :
 18-003326

 Issue Date
 :
 23/06/2018

 Print Date
 :
 28/06/2018

Specimen: 1



JACKSON B.Sc.(Hons)

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

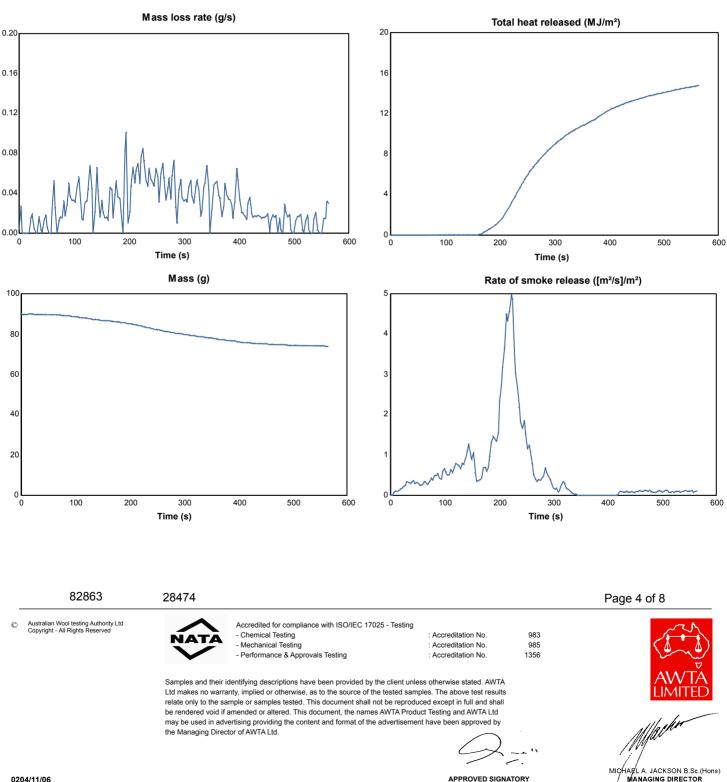
P.O Box 240, North Melbourne, Victoria 3051

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

TEST REPORT

Materialised Pty Ltd Client : 19 Heath Road Blakehurst NSW 2221

18-003326 Test Number : Issue Date 23/06/2018 • 28/06/2018 **Print Date** :



APPROVED SIGNATORY

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

(03) 93/1 2400 Fax (03) 93/1 2499

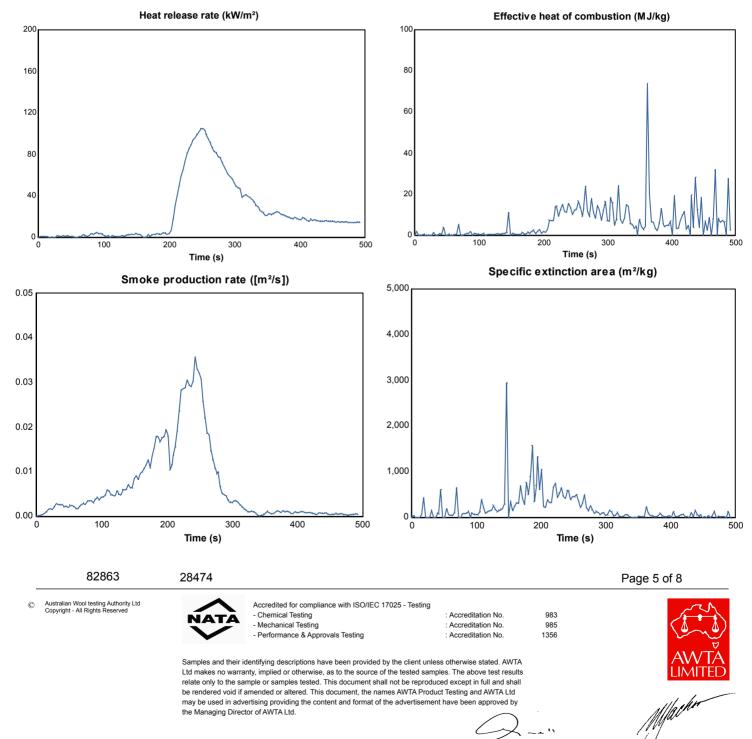
TEST REPORT

Client : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221
 Test Number
 :
 18-003326

 Issue Date
 :
 23/06/2018

 Print Date
 :
 28/06/2018





JACKSON B.Sc.(Hons)

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

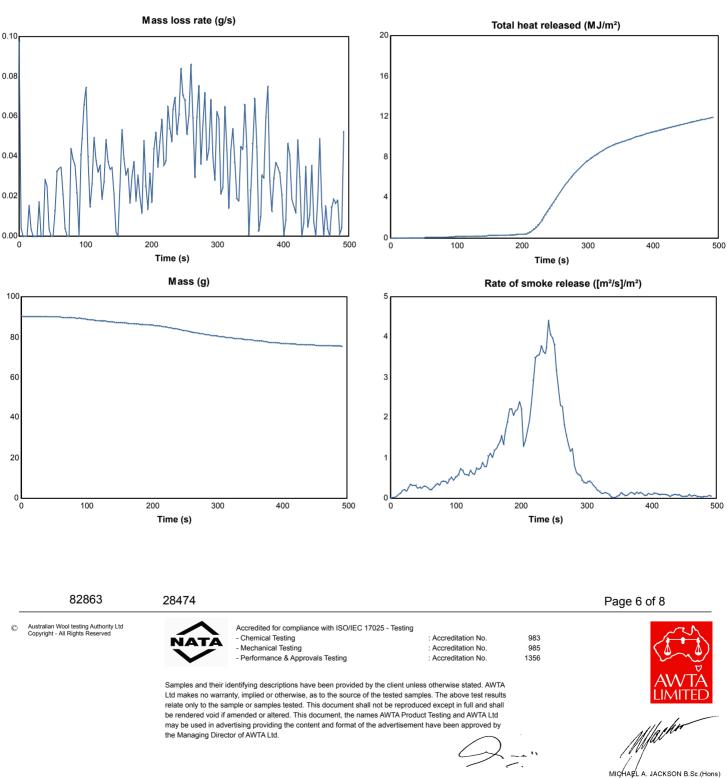
TEST REPORT

Client : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221

 Test Number
 :
 18-003326

 Issue Date
 :
 23/06/2018

 Print Date
 :
 28/06/2018



APPROVED SIGNATORY

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

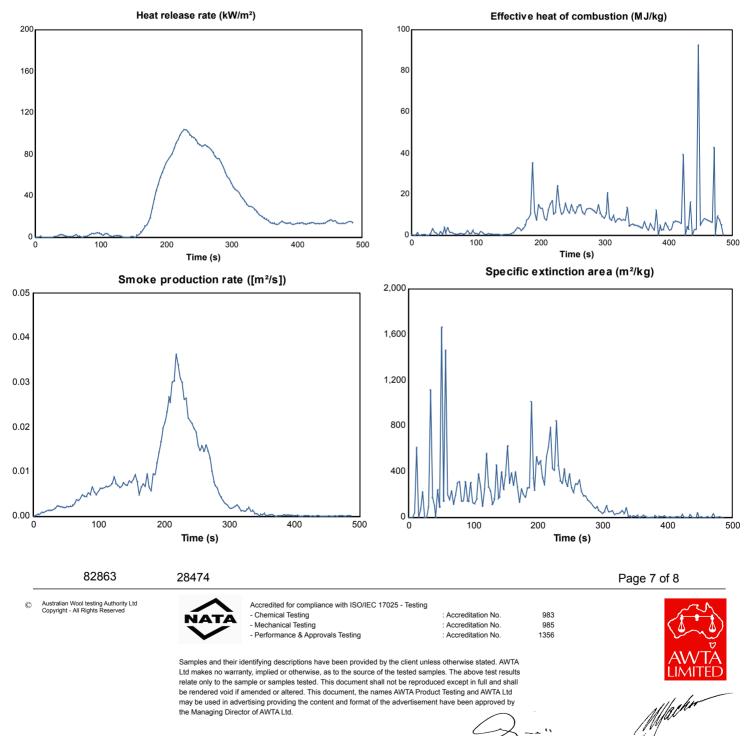
TEST REPORT

Client : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221
 Test Number
 :
 18-003326

 Issue Date
 :
 23/06/2018

 Print Date
 :
 28/06/2018

Specimen: 3



APPROVED SIGNATORY

JACKSON B.Sc.(Hons)

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

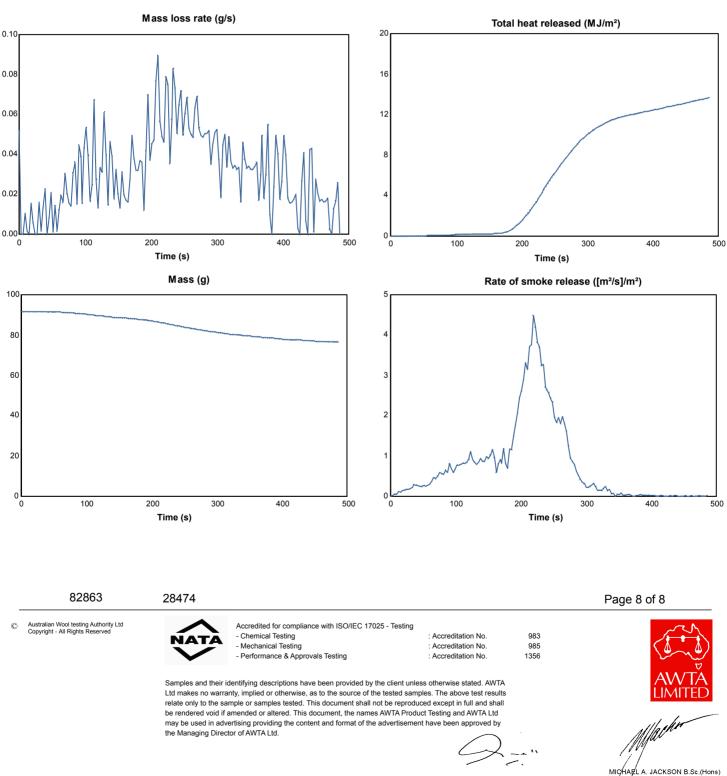
TEST REPORT

Client : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221

 Test Number
 :
 18-003326

 Issue Date
 :
 23/06/2018

 Print Date
 :
 28/06/2018



APPROVED SIGNATORY

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

AWTA PRODUCT TESTING

Client : Materialised 19 Heath Ro Blakehurst N	•			
			Test Number :	18-002731
Blakehurst I	bad		Issue Date :	04/06/2018
	NSW 2221		Print Date :	8/06/2018
			Order Number :	38196
Sample Description	Clients Ref : "Silica"			
	Coated knitted fabric			
	Colour : Alloy			
	End Use : Upholstery			
	Nominal Composition : 100% Si	licone coating on po	lyester base	
	Nominal Mass per Unit Area/Density	: 1.60lbs		
	Nominal Thickness : Approx 1	mm		
Date Tested	04/06/2018			
	Specin	nen		
	1			
-	9 36	.4 kW/m²		
-	e 36 area 153	.4 kW/m² .8 m²/kg	ustralia)	
Average Specific extinction	1 36 area 153 (according to Specification C1.10 of the	.4 kW/m² .8 m²/kg	ustralia)	
Average Heat Release Rate Average Specific extinction Test orientation : Horizor	1 36 area 153 (according to Specification C1.10 of the	.4 kW/m² .8 m²/kg e Building Code of A	ustralia)	
Average Specific extinction	1 36 area 153 (according to Specification C1.10 of the	.4 kW/m² .8 m²/kg e Building Code of A	ustralia)	
Average Specific extinction	1 36 area 153 (according to Specification C1.10 of the ntal Specin 1	.4 kW/m² .8 m²/kg e Building Code of A nen	ustralia)	
Average Specific extinction	1 36 area 153 (according to Specification C1.10 of the ntal Specin	.4 kW/m² .8 m²/kg e Building Code of A nen 0 kW/m²	ustralia)	
Average Specific extinction	1 36 area 153 (according to Specification C1.10 of the ntal Specin 1 5	.4 kW/m² .8 m²/kg e Building Code of A nen 0 kW/m² 4 L/sec	ustralia)	

Page 1 of 5 Australian Wool testing Authority Ltd Copyright - All Rights Reserved (\mathbb{C}) Accredited for compliance with ISO/IEC 17025 - Testing - Chemical Testing : Accreditation No. 983 - Mechanical Testing Accreditation No. 985 - Performance & Approvals Testing : Accreditation No. 1356 Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full and shall be rendered void ifamended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by lachr theManaging Director of AWTA Ltd.

0205/11/06



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 :	Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221			Test Number : Issue Date : Print Date : Order Number:	18-002731 04/06/2018 8/06/2018 38196
Peak heat rele	ease after ignition	103.4	kW/m²		
Average heat	at 60 s	48.3	kW/m²		
Average heat	at 180 s	57.9	kW/m²		
Average heat	at 300 s	45.0	kW/m²		
Total heat rele	eased	14.8	MJ/m ²		
Average effect	tive heat of combustion	9.4	MJ/kg		
Initial thicknes	S	7.0	mm		
Initial mass		90	g		
Mass remainir	ng	74.0	g		
Mass percenta	age pyrolysed	17.8	%		
Mass loss		16.0	g		
Average rate of	of mass loss	3.9	g/m².s		
Group Numbe	r Classification	1			

Page 2 of 5 Australian Wool testing Authority Ltd Copyright - All Rights Reserved (\mathbb{C}) Accredited for compliance with ISO/IEC 17025 - Testing - Chemical Testing : Accreditation No. 983 - Mechanical Testing : Accreditation No. 985 - Performance & Approvals Testing : Accreditation No. 1356 Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full and shall be rendered void ifamended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by lachr theManaging Director of AWTA Ltd. IAEL A. JACKSON B.Sc.(Hons) 0205/11/06 MANAGING DIRECTOR APPROVED SIGNATORY

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

		Order Numbe	r:	38196
	Blakehurst NSW 2221	Print Date	:	8/06/2018
	19 Heath Road	Issue Date	:	04/06/2018
Client :	Materialised Pty Ltd	Test Number	:	18-002731

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.

Page 3 of 5 Australian Wool testing Authority Ltd Copyright - All Rights Reserved (C) Accredited for compliance with ISO/IEC 17025 - Testing - Chemical Testing : Accreditation No. 983 - Mechanical Testing Accreditation No. 985 - Performance & Approvals Testing Accreditation No. 1356 Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full and shall be rendered void ifamended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by theManaging Director of AWTA Ltd. AEL A. JACKSON B.Sc.(Hons) 0205/11/06 MANAGING DIRECTOR

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

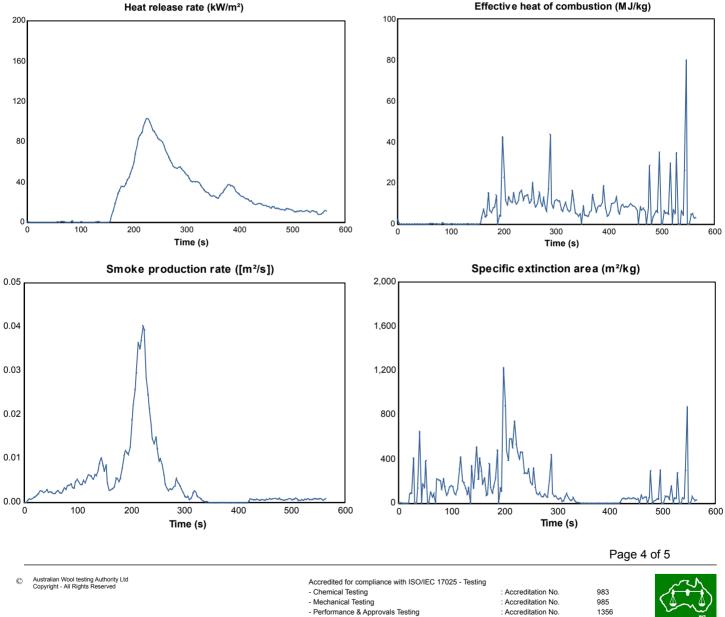
P.O Box 240, North Melbourne, Victoria 3051

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

TEST REPORT

Client :	Materialised Pty Ltd	Test Number	:	18-002731
	19 Heath Road	Issue Date	:	04/06/2018
	Blakehurst NSW 2221	Print Date	:	8/06/2018
		Order Numbe	r:	38196

Specimen: 1



Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full and shall be rendered void ifamended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by theManaging Director of AWTA Ltd.

AWTĂ

A. JACKSON B.Sc.(Hons)

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

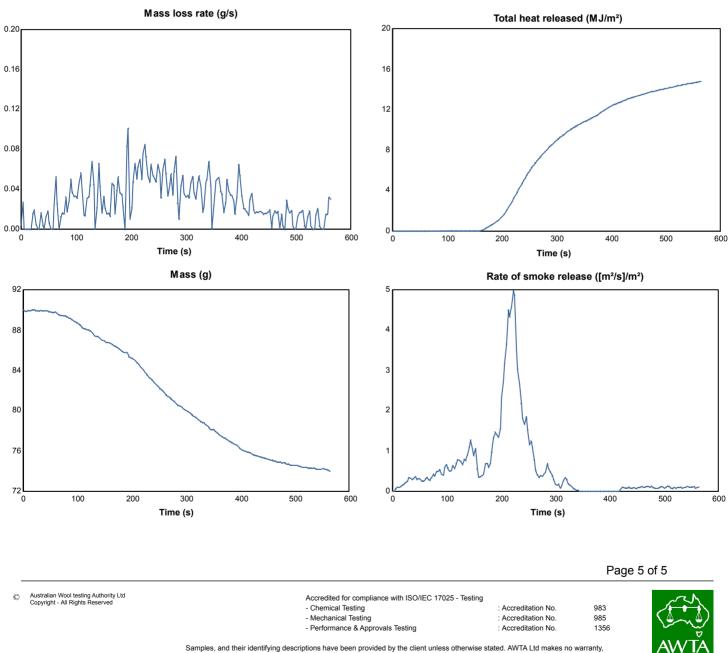
Client : Materialised Pty Ltd 19 Heath Road Blakehurst NSW 2221

 Test Number
 :
 18-002731

 Issue Date
 :
 04/06/2018

 Print Date
 :
 8/06/2018

 Order Number :
 38196



Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full and shall be rendered void ifamended or altered. This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and format of the advertisement have been approved in advance by theManaging Director of AWTA Ltd.

A. JACKSON B.Sc.(Hons)



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	Test Number	:	18-003326
	19 Heath Road	Issue Date	:	28/06/2018
	Blakehurst NSW 2221	Print Date	:	28/06/2018

Sponsor Product	Clients Ref : "Silica" Coated knitted textile
	Colour : Alloy
	Nominal Composition : Silicone coated polyester
	Nominal Mass per Unit Area/Density : 1.6 lb
	Nominal Thickness : 1mm

Product Group Number Classification :	1	
Average Specific Extinction Area :	177.7	m²/kg

Chris Campbell Client Relations Manager

The message/document(s) contained in this electronic attachment is intended for the party to which it is addressed and may contain confidential information or be subject to professional privilege. It's transmission is not intended to place the contents into the public domain.

If you have received this transmission in error, it's disclosure or copying is prohibited. Please contact us by collect call so that arrangements can be made at our expense to rectify the error.