



## No. 1279578.7

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.5.19

SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

1 of 8

### ISO 5660.1-2015 - Reaction to Fire Tests – Heat release Smoke Production and Mass Loss Rate Part 1: Heat Release Rate (Cone Calorimeter Method) and Smoke Production Rate (Dynamic Measurement)

Note: This test was sub-contracted (test number 19-002651).

	Specimens			Mean
	1	2	3	
Average Heat Release	7.7	10.4	7.7	8.6 kW/m <sup>2</sup>
Average Specific Extinction Area	135.0	65.0	52.5	84.2 m <sup>2</sup> /kg
Group Number Classification (In Accordance with the New Zealand Building Code Verification Method C/VM2 Appendix A)				2S


Test Orientation: Horizontal

	Specimens			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> /sec.
Time to Sustained Flaming	17	16	17	17 sec.
Test Duration	1817	1816	1817	1817 sec.
Peak Heat Release After Ignition	255.1	282.5	243.2	260.3 kW/m <sup>2</sup>
Average Heat at 180 s	47.7	48.6	45.6	47.3 kW/m <sup>2</sup>
Average Heat at 300 s	31.2	32.2	29.0	30.8 kW/m <sup>2</sup>
Total Heat Released	15.0	19.1	14.6	16.2 MJ/m <sup>2</sup>
Ave. Effective Heat of Combustion	5.5	8.1	6.0	6.5 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	94.9	92.9	94.0	93.9 g
Mass at Sustained Flaming	94.8	92.5	93.9	93.7 g
Mass Remaining	74.2	73.8	75.2	74.4 g
Mass Loss	2550.2	2361.5	2316.0	2409.2 g/m <sup>2</sup>
Average Rate of Mass Loss	1.4	1.3	1.3	1.3 g/m <sup>2</sup> .s

#### "THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 5473 Email: testing@nzwta.co.nz



## No. 1279578.7

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.5.19

SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

2 of 8

Total Smoke Production (non-flaming phase)	5.1	1.7	2.9	3.2 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (flaming phase)	341.4	154.8	135.6	210.6 m <sup>2</sup> /m <sup>2</sup>
Total Smoke Production (non flaming & flaming phase)	346.5	156.5	138.5	213.8 m <sup>2</sup> /m <sup>2</sup>
Specimen Surface Area (m <sup>2</sup> )	0.00810	0.00810	0.00810	-
C-Factor (Calibration Constant)	0.04147	0.04147	0.04147	-

Additional Observation: 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 sole criterion for assessment of performance under real fire conditions.

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

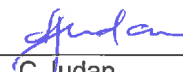
Tests were conducted with a wire grid placed over the sample during testing. This was done to contain intumescent sample within the sample holder.

Note: All calculations are based on ignition + 30 minutes.

**"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



## No. 1279578.7

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.5.19

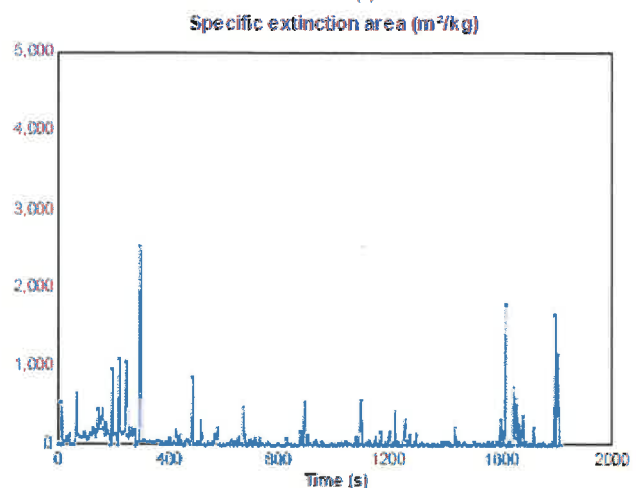
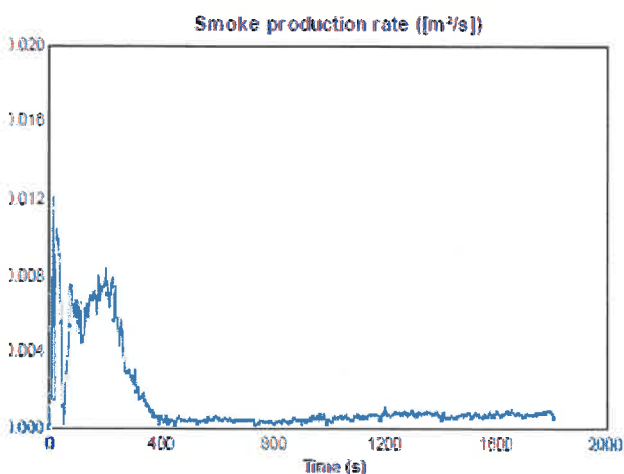
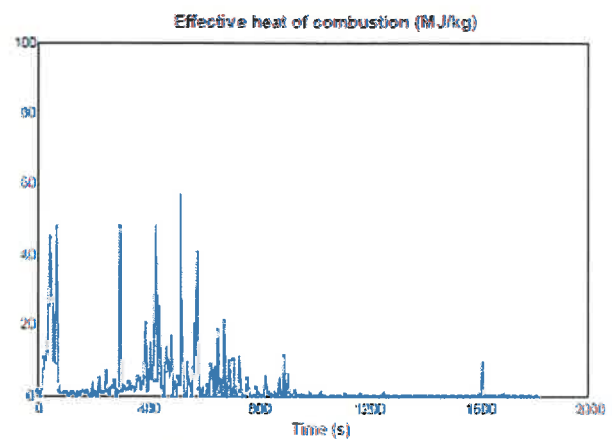
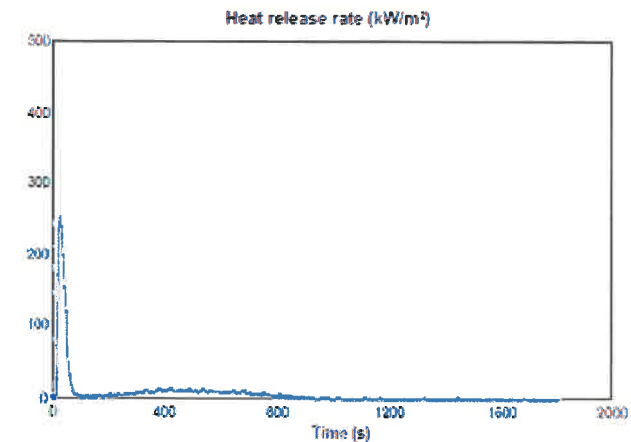
SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

3 of 8

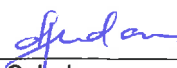
Specimen : 1



**“THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED”**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1279578.7**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

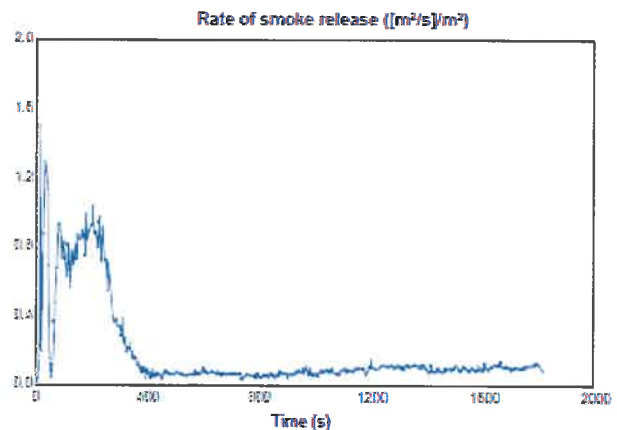
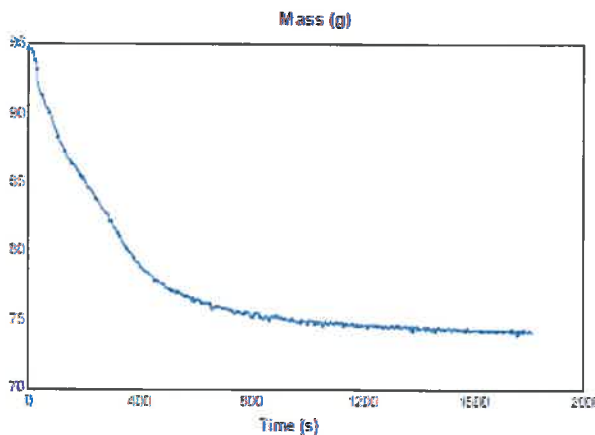
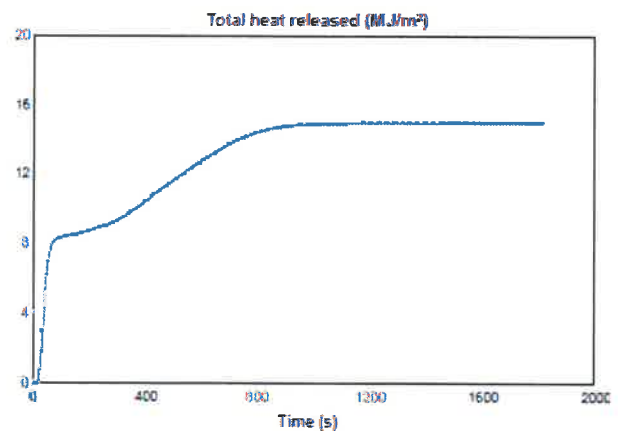
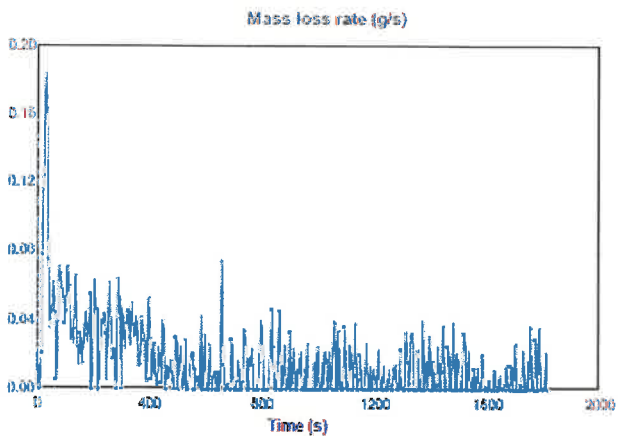
Date Received: 17.5.19

SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:


4 of 8



**"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1279578.7**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.5.19

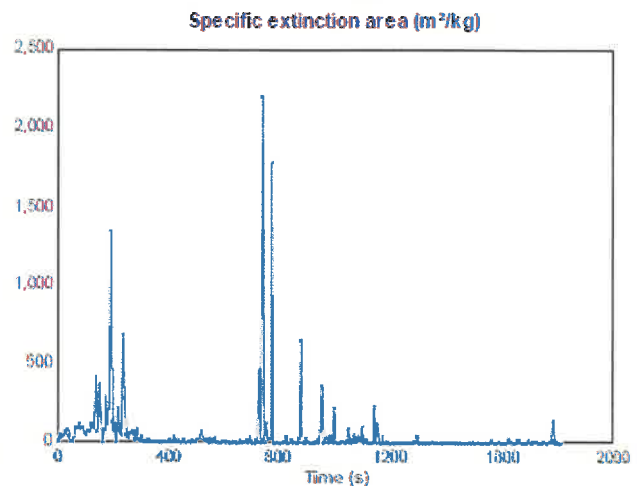
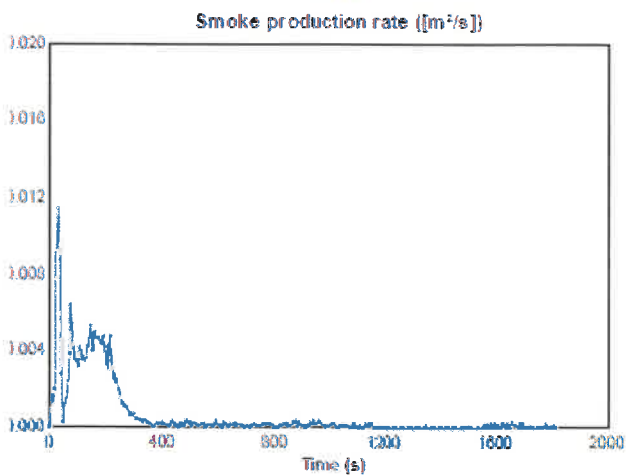
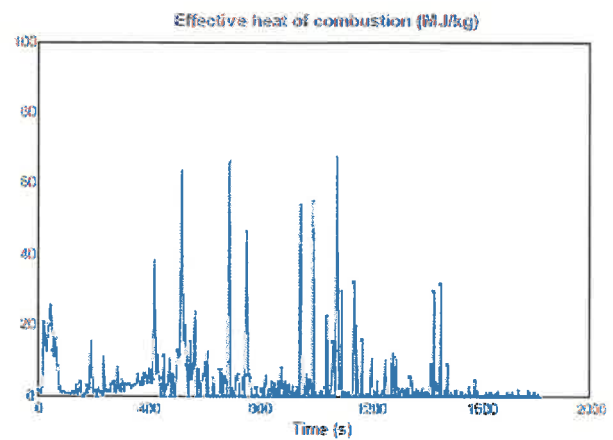
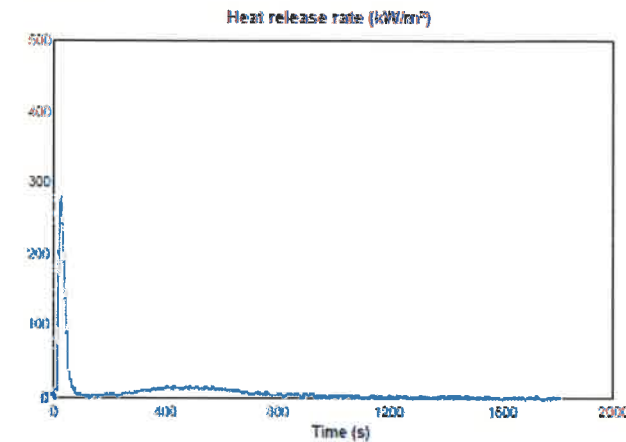
SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

5 of 8


Specimen : 2



**"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1279578.7**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

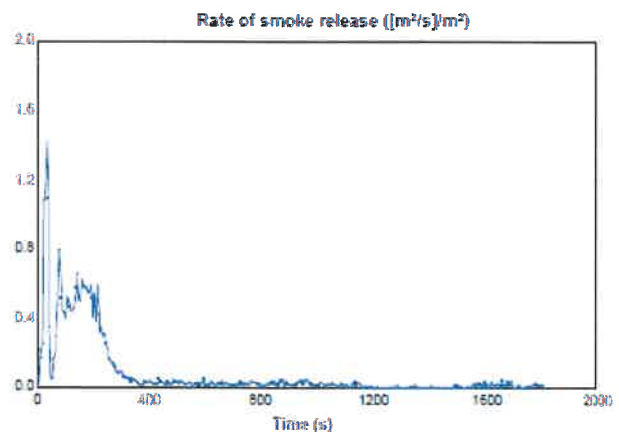
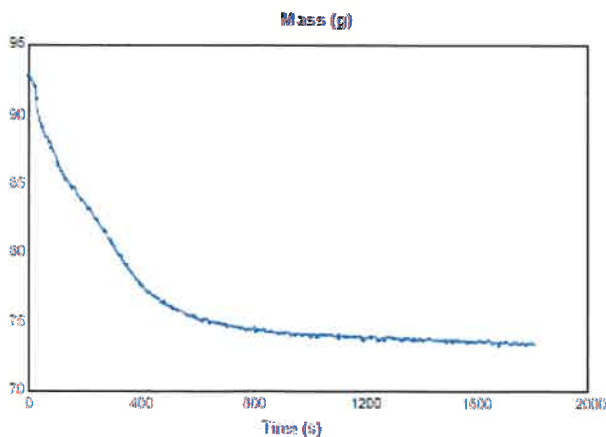
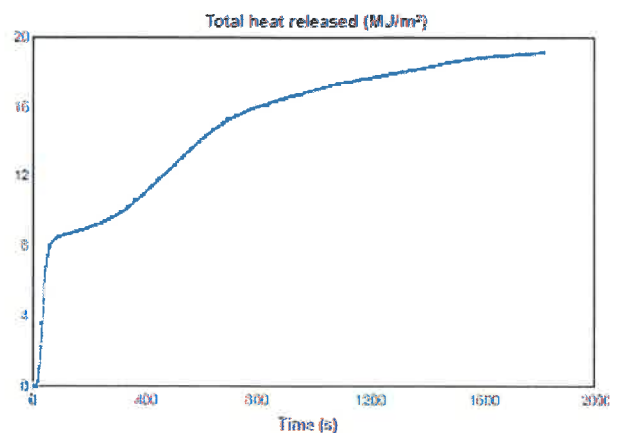
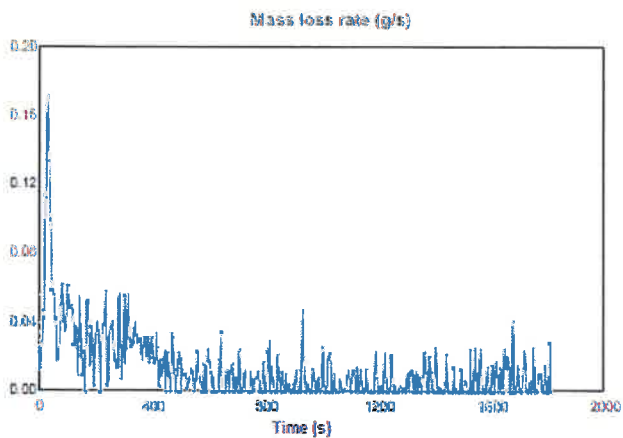
Date Received: 17.5.19

SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

6 of 8



**"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

New Zealand Wool Testing Authority Ltd

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1279578.7**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

Date Received: 17.5.19

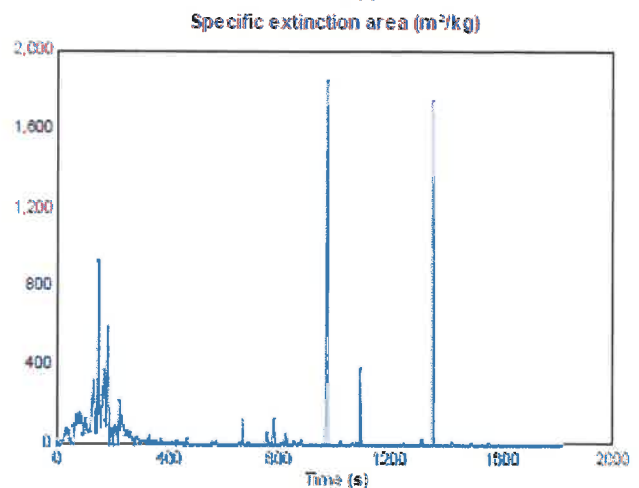
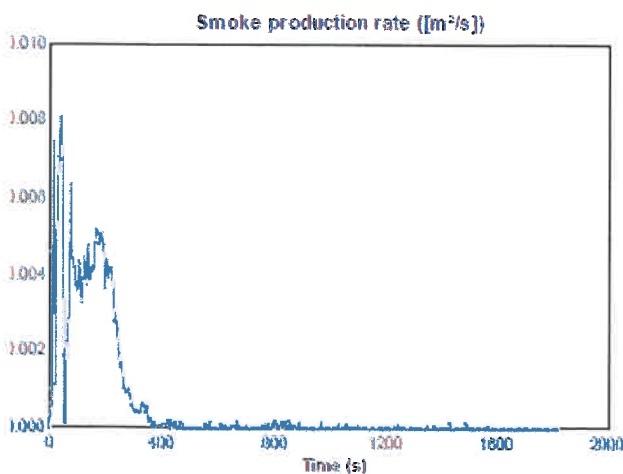
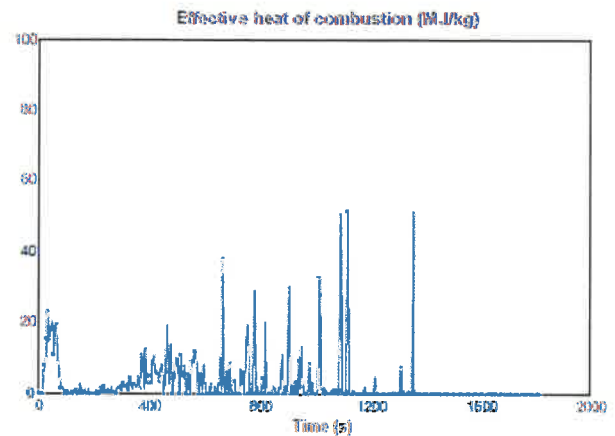
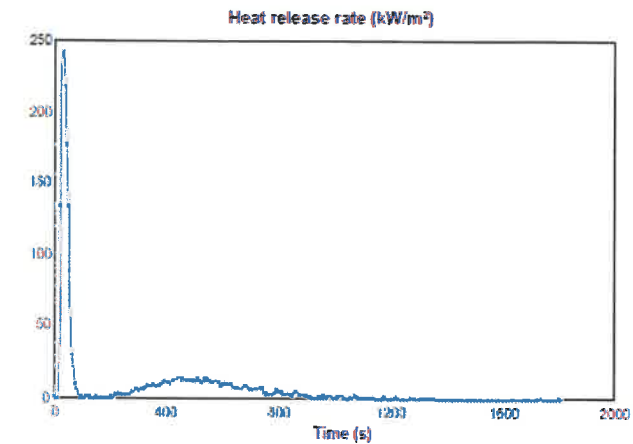
SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

7 of 8


Specimen : 3



**"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6473 Email: testing@nzwta.co.nz



**No. 1279578.7**

(Please quote this number in all correspondence)

CLIENT:  
At Work  
PO Box 37 378  
Parnell, Auckland

SAMPLE RECEIVED FROM:  
At Work

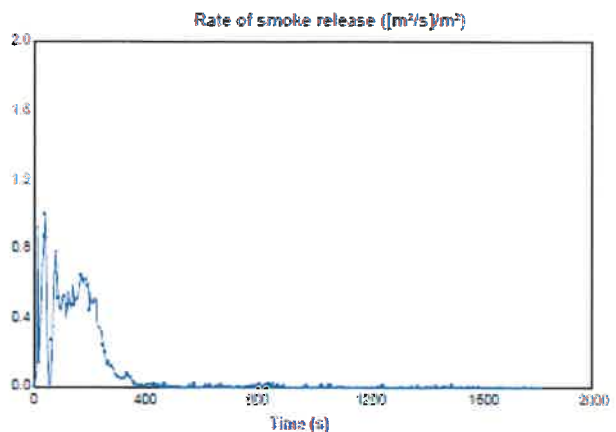
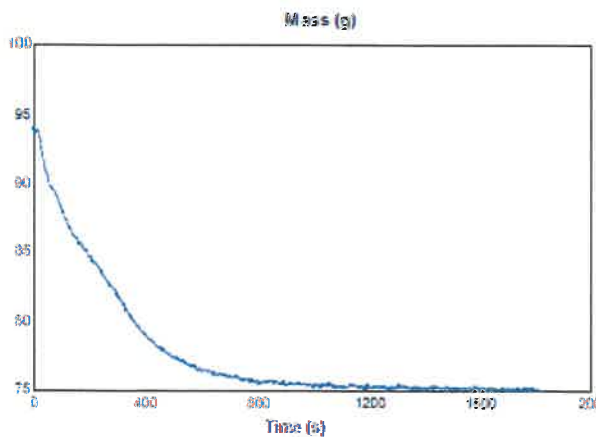
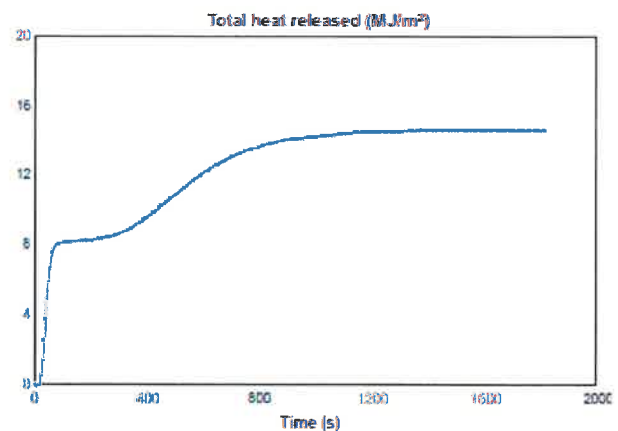
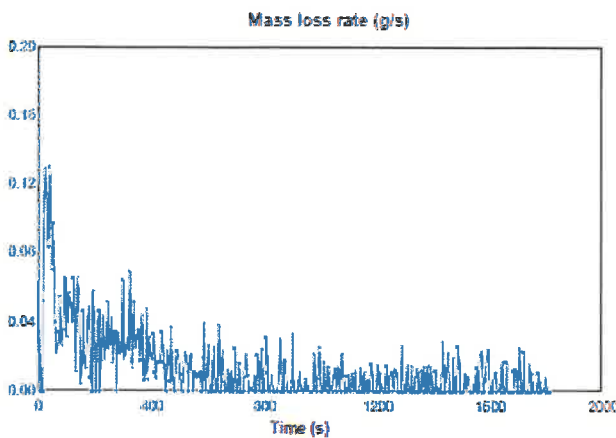
Date Received: 17.5.19

SAMPLE DESCRIPTION:  
Mint colour fabric:  
Fabric Name – Yoredale  
Nominal Composition – 95% Wool 3% Polyester 2% Nylon  
Nominal Weight – 700gsm, 966g per lineal metre  
(useable width 138cm minimum)  
End Use – Panel & Upholstery

Client Order No.:

Client Reference:

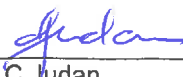
8 of 8



**“THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED”**

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY. This document shall not be reproduced except in full.

L A Greer  
Signatory

  
C Judan  
Signatory

01/08/2019

**New Zealand Wool Testing Authority Ltd**

22 Bridge Street, PO Box 12065

Ahuriri, Napier 4144, New Zealand

T +64 6 835 1086, F +64 6 835 6475 Email: testing@nzwta.co.nz