



NZWTA
WOOL TESTING



NZWTA
TEXTILES AND
MATERIALS TESTING

No. 1583331.2A

(Please quote this number in all correspondence)

CLIENT:
Textilia Ltd.
PO Box 37 378
Parnell, Auckland

Attn.: Therese Ronalde

SAMPLE RECEIVED FROM:
Textilia Ltd.

Date Received: 8.9.25

SAMPLE DESCRIPTION:
Grey upholstery fabric – Product STRATA
Nominal Composition – 100% Polyester
Nominal Weight – 470g per lineal meter

Client Order No.:

Client Reference:

1 of 2

GROUP NUMBER ASSESSMENT

(In accordance with New Zealand Building Code Verification Method C/VM2 Appendix A)

Testing was performed in accordance with ISO 5660.1-2015 method of test for heat and smoke release rates for materials and products using an oxygen consumption calorimeter.

Note: This test was sub-contracted (Test No. 25-003845).

Product Group Number Classification:

3

Average Specific Extinction Area

107.1 m²/kg

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Key Technical Person

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**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 25-003845).

	1	Specimens 2	3	Mean
Average Heat Release Rate	23.4	19.2	18.6	20.4 kW/m ²
Average Specific Extinction Area	14.1	175.7	131.5	107.1 m ² /kg

	1	Specimens 2	3	Mean
Test Orientation: Horizontal	1	2	3	Mean
Irradiance	50	50	50	50 kW/m ²
Exhaust Flow Rate	0.024	0.024	0.024	0.024 m ³ /sec.
Time to Sustained Flaming	154	186	158	166 sec.
Test Duration	1954	1986	1958	1966 sec.
Peak Heat Release After Ignition	159.6	148.3	191.9	166.6 kW/m ²
Average Heat at 180 s	70.8	69.0	69.1	69.6 kW/m ²
Average Heat at 300 s	51.1	50.2	50.1	50.5 kW/m ²
Total Heat Released	42.0	34.5	33.4	36.6 MJ/m ²
Average Effective Heat of Combustion	22.8	18.3	19.9	20.4 MJ/kg
Initial Thickness	7	7	7	7 mm
Initial Mass	89.6	94	89.5	91.0 g
Mass at Sustained Flaming	82.2	84.1	83.9	83.4 g
Mass Remaining	74.4	78.3	75.8	76.1 g
Mass Loss	1881.0	1939.7	1697.4	1839.4 g/m ²
Average Rate of Mass Loss	1.0	1.0	0.9	1.0 g/m ² .s
Total Smoke Production (non-flaming phase)	107.9	139.1	159.4	135.5 m ² /m ²
Total Smoke Production (flaming phase)	241.3	367.7	307.6	305.5 m ² /m ²
Total Smoke Production (non flaming & flaming phase)	349.2	506.8	467.0	441.0 m ² /m ²
C-Factor (Calibration Constant)	0.043579	0.043579	0.043579	-

Additional Observation: Nil
 Difficulties Encountered During Testing: Nil

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

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

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.

Retainer grid was used to contain the test specimen within the sample holder.

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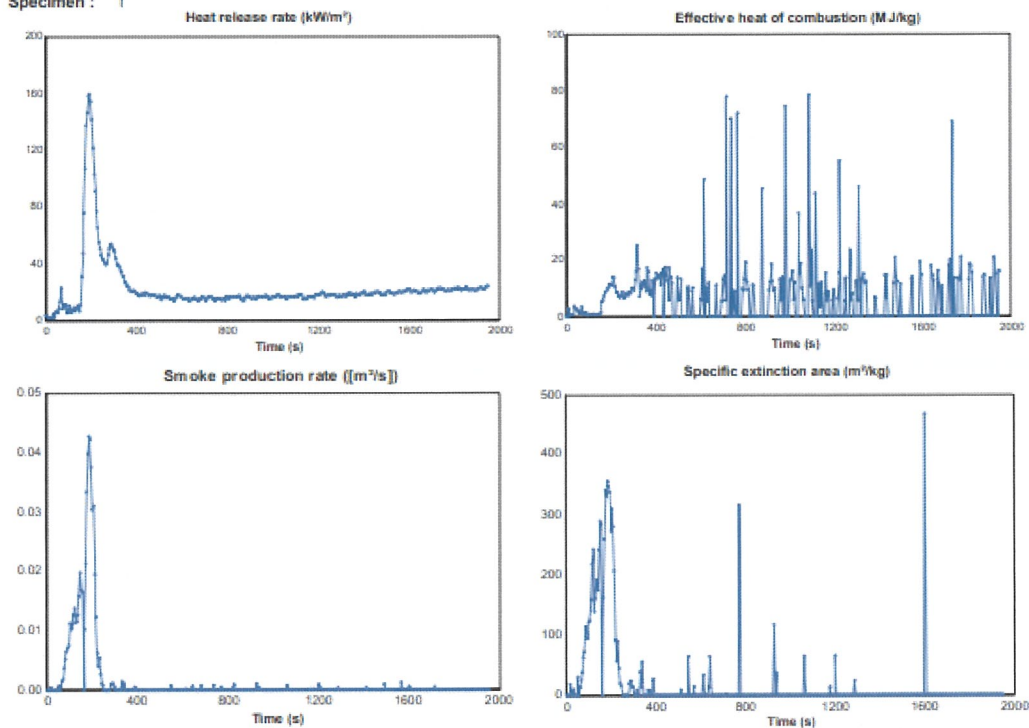
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Specimen : 1



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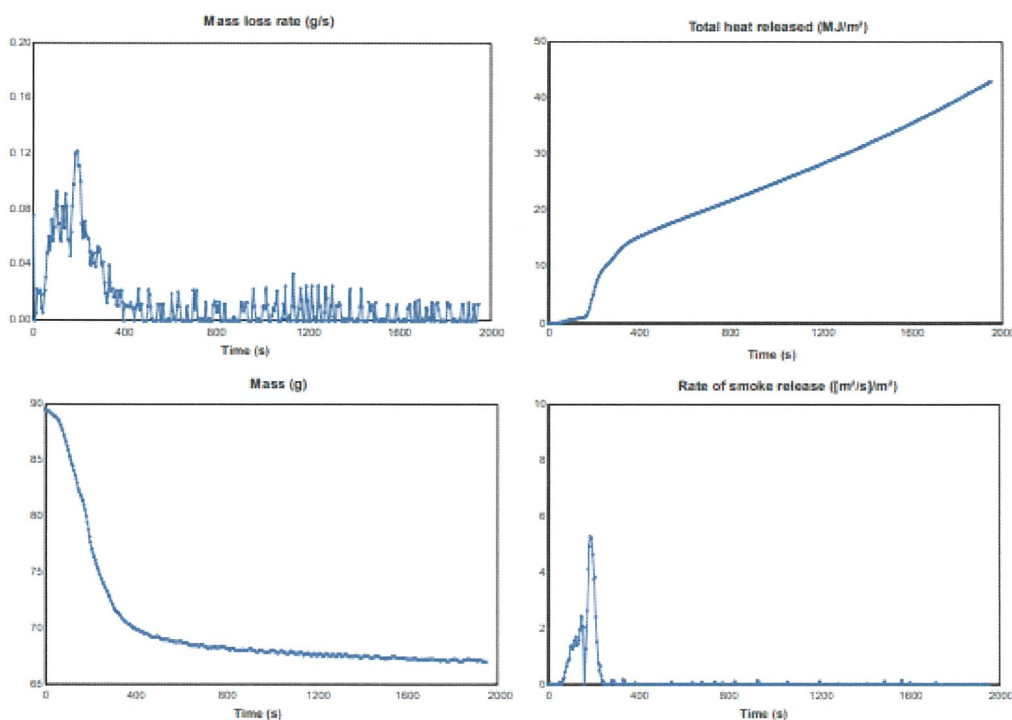
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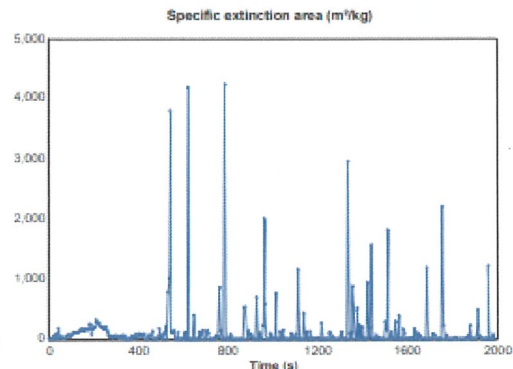
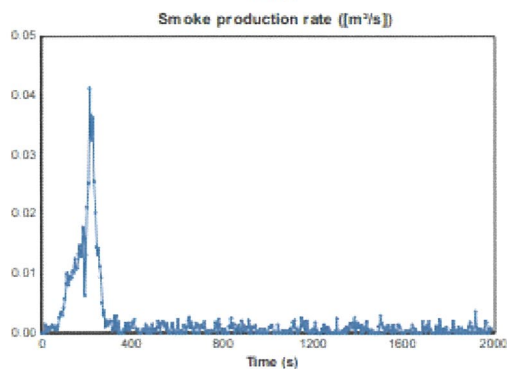
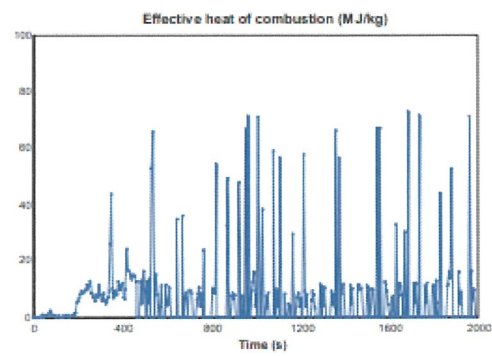
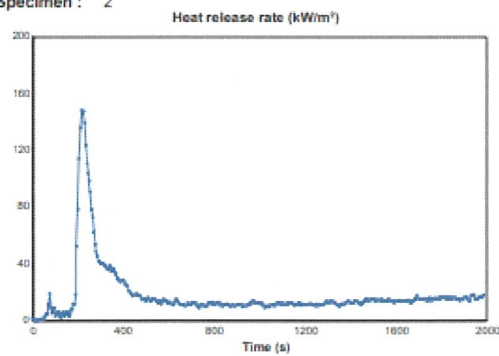
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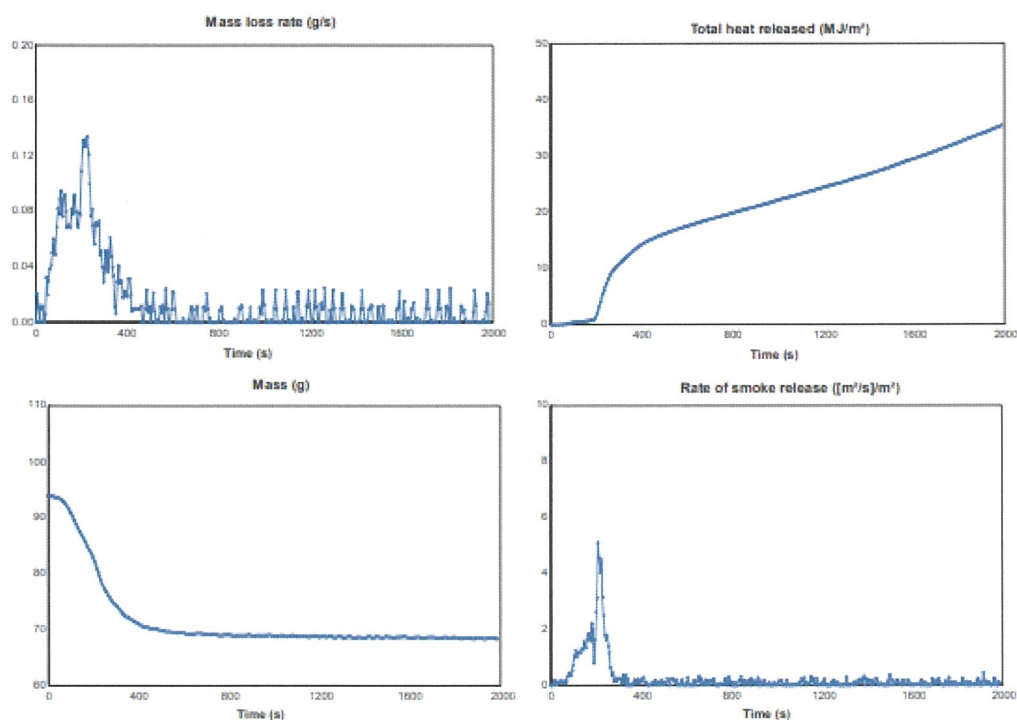
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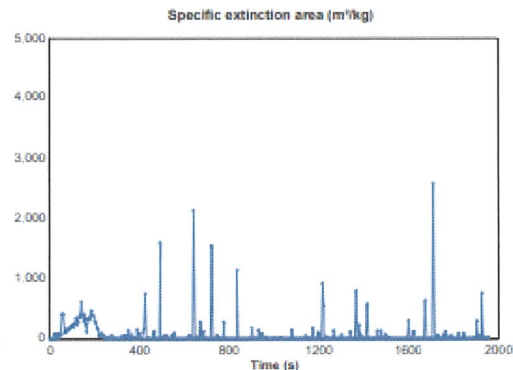
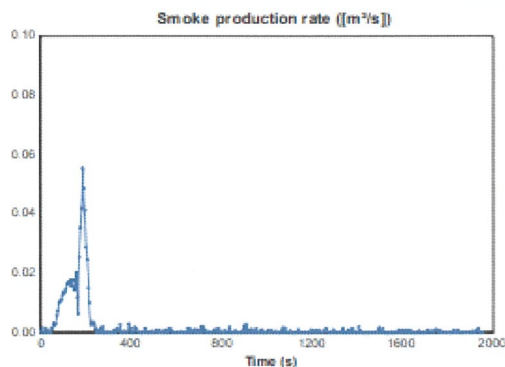
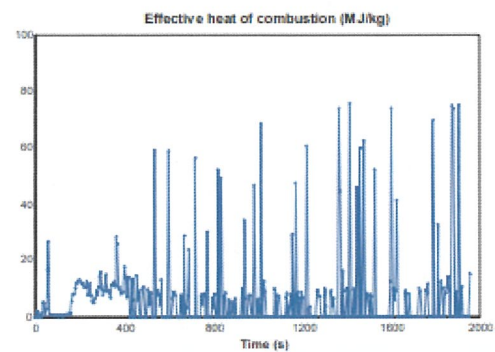
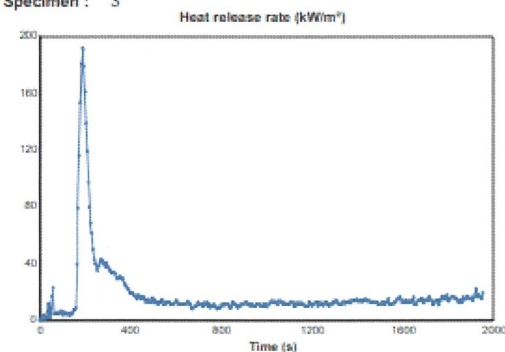
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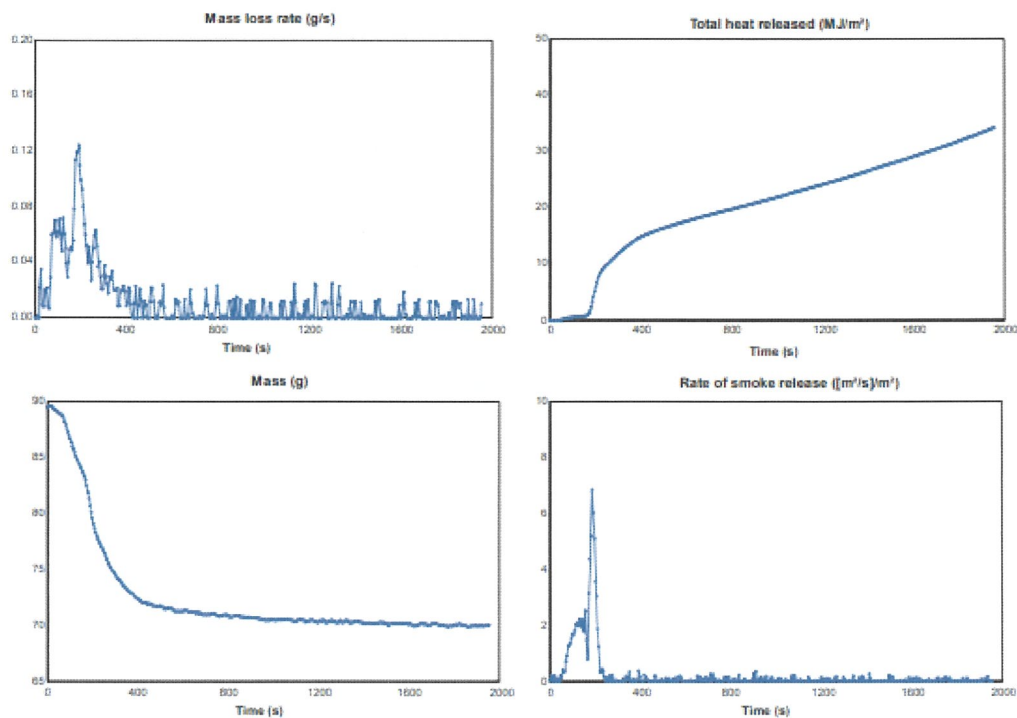
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