



Farming, Food and Health. **First**

Te Ahuwhenua, Te Kai me te Whai Ora. **Tuatahi**

AgResearch Test Report

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LABORATORY

No.09/455

(Please quote this number in all correspondence)

CLIENT:
Kaynemaile Ltd
P O Box 24388
Manners St
Wellington CBD

SAMPLE RECEIVED FROM:
Kaynemaile Ltd

Date: 01.05.09

SAMPLE DESCRIPTION:
KML22 FR.

Attn: Simon

Client Order No.:

Client Reference:

1

DIN 4102 Part 1: 1981 FIRE BEHAVIOUR OF BUILDING MATERIALS AND BUILDING COMPONENTS.
Building materials, Concepts, Requirements and tests.

Date tested: 15.05.09

Samples Conditioned at: 65%RH, 20°C

Test Conditions: 64%RH, 18°C

Results:

After Flame (sec)	Damage Length (mm)	Ignition of Filter paper
6	70	No
5	95	No
3	65	No
4	70	No
6	50	No

Note: All samples self extinguished and did not reach the 150mm mark.

This product has a rating of B1.

These results are an indication only, not all dimensions of the test equipment are to the standard.


 L A Greer, Testing Manager 29/05/2009
 Signatory

TERMS AND CONDITIONS

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NFPA 701 1999 FIRE TESTS FOR FLAME PROPAGATION OF TEXTILES AND FILMS. TEST 1.

Conditioning: 105 ± 3 C > 30 minutes.

Gas used: Methane

Flame application time: 45 ± 1 seconds, edge orientation

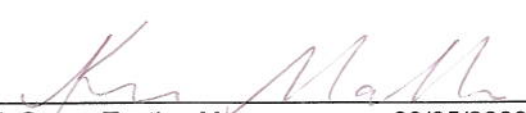
Flame height 100 ± 10 mm

Test cabinet used, but with smaller dimensions to the one specified in the test

Results

Specimen number	Initial wt to nearest 0.1 g	Final wt to nearest 0.1 g	Wt loss to nearest 0.1 g	% Wt loss	Debris burning time to 0.5 secs	After flame time (sec)
1	101.1	98.9	2.1	2.1	0.0	11.0
2	101.4	95.5	5.9	5.8	0.0	15.0
3	101.2	97.1	4.1	4.1	0.0	13.0
4	101.4	99.1	2.3	2.3	0.0	12.0
5	100.5	99.3	1.2	1.2	0.0	10.0
6	101.1	99.3	1.8	1.7	0.0	15.0
7	101.4	100.8	0.6	0.6	0.0	14.0
8	101.5	98.2	3.3	3.3	0.0	11.0
9	101.4	99.4	2.0	2.0	0.0	12.0
10	100.5	99.6	0.9	0.9	0.0	14.0
Mean	101.1	98.7	2.4	2.4	0.0	12.7
s.d	0.4	1.5	1.6	1.6	0.0	1.8

Observations or unusual behaviour


 L A Greer, Testing Manager
 Signatory

29/05/2009

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Performance Criteria: - Fragments of specimens that fall to the floor of the test chamber shall not burn for more than (chapter 8) an average of 2 seconds per specimen for the sample of 10 specimens.

- The average weight loss of the 10 specimens in a sample shall be 40 % or less.
- On this set of samples no individual specimen's mass loss percent shall exceed by more than 3 standard deviations from the mean for the 10 specimens. If any individual specimen's mass loss is outside this requirement a repeat test of a further 10 samples is required.
- On the second set of tests, if the mass loss of any individual specimen deviates by 3 standard deviations from the mean, the sample tested is deemed to have failed.

This fabric passes these criteria.

Note: Section 6-3 stipulates the test shall be initiated within 2 minutes of removing the specimen from the oven. This was unable to be achieved as specimens had to be transported (in a sealed container) from one lab to another, which amounted to more than 2 minutes.


 L A Greer, Testing Manager
 Signatory

29/05/2009

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