

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 : CHILEWICH SULTAN LLC
44 EAST 32ND STREET
NEW YORK NY 10016
USA

TEST NUMBER : 7-563856-BO
DATE : 15/12/2008

SAMPLE DESCRIPTION Plynyl Wall Covering -"Ikat/Bamboo/Wood Grain/Small Stripes/
Big Stripes
Woven fabric
Colour: Natural End use: Wall covering
Nominal composition: Polyester
Nominal mass: 0.42 - 0.47 kg/m²

AS/NZS 3837:1998 Method of Test for Heat and Smoke Release Rates
for Materials and Products Using an Oxygen
Consumption Calorimeter

Results:-

| | Specimen | | | Mean | |
|--|----------|-------|-------|-------|--------------------|
| | 1 | 2 | 3 | | |
| Average Heat Release Rate | 45.0 | 45.0 | 41.5 | 43.9 | kW/m ² |
| Average Specific extinction area (according to Specification C1.10 of the Building Code of Australia) | 244.5 | 207.0 | 234.4 | 228.6 | m ² /kg |

BCA Classification:-

Group Classification 2 2 2
(according to Specification A2.4 of the Building Code of Australia)



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Test orientation: Horizontal

| | Specimen | | | Mean | |
|---------------------------|----------|-----|-----|------|-------------------|
| | 1 | 2 | 3 | | |
| Irradiance | 50 | 50 | 50 | 50 | kW/m ² |
| Exhaust flow rate | 24 | 24 | 24 | 24 | l/s |
| Time to sustained flaming | 12 | 10 | 8 | 10 | s |
| Test duration | 224 | 222 | 234 | 227 | s |

Heat release rate curve on attached sheets which form part of this report

| | | | | | |
|--------------------------------------|-------|-------|-------|-------|---------------------|
| Peak heat release after ignition | 116.4 | 121.3 | 102.8 | 113.5 | kW/m ² |
| Average heat at 60s | 97.6 | 95.4 | 83.3 | 92.1 | kW/m ² |
| Release rate at 180s | 50.5 | 50.4 | 48.8 | 49.9 | kW/m ² |
| After ignition at 300s | n/a | n/a | n/a | n/a | kW/m ² |
| Total heat released | 9.5 | 9.6 | 9.4 | 9.5 | MJ/m ² |
| Average effective heat of combustion | 6.9 | 7.1 | 6.6 | 6.9 | MJ/kg |
| Initial thickness | 1.0 | 1.0 | 1.0 | 1.0 | mm |
| Initial mass | 69.0 | 67.6 | 68.2 | 68.3 | g |
| Mass remaining | 57.6 | 56.6 | 56.7 | 57.0 | g |
| Mass percentage pyrolysed | 16.5 | 16.3 | 16.9 | 16.6 | % |
| Mass loss | 11.4 | 11.0 | 11.5 | 11.3 | g |
| Average rate of mass loss | 6.5 | 6.4 | 6.3 | 6.4 | g/m ² .s |

Observations:

Samples were loose laid onto a substrate of 10mm thick plasterboard prior to testing

Tests were conducted with a wire grid placed over the sample during testing This was done to contain the sample within the sample holder and to stop the sample from curling around the igniter

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 the assessment of performance under real fire conditions

