

# 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 :** Warwick Fabrics Aust Pty Ltd  
6-10 Sackville Street  
Collingwood VIC 3066

**Test Number :** 14-000754  
**Issue Date :** 17/10/2014  
**Print Date :** 17/10/2014

**Sample Description** Clients Ref : "Lavish"  
Coated satin weave fabric  
Colour : Beige  
End Use : Drapery  
Nominal Composition : 100% Polyester  
Nominal Mass per Unit Area/Density : 270g/m2  
Nominal Thickness : Approx. 1mm

AS/NZS 1530.3-1999

### Methods for Fire Tests on Building Materials, Components and Structures Part 3: Simultaneous Determination of Ignitability, Flame Propagation, Heat Release and Smoke Release

Face tested: Face  
Date tested: 17/10/2014

	Standard Error	Mean
Ignition time	0.22	5.72 min
Flame propagation time	4.8	32.6 sec
Heat release integral	1.0	69.7 kJ/m <sup>2</sup>
Smoke release, log d	0.0126	-0.7035
Optical density, d		0.1984 / metre

No of samples which ignited	7
For Samples which ignited	
Smoke Release (Log D) - Mean	-0.7035
Smoke Release (Log D) - Standard Error	0.0126
No of samples which did not ignite	2
For Samples which did not ignite	
Smoke Release (Log D) - Mean	-0.9581
Smoke Release (Log D) - Standard Error	0.0000
Number of specimens tested:	9

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### Regulatory Indices:

Ignitability Index	14	Range 0-20
Spread of Flame Index	8	Range 0-10
Heat Evolved Index	2	Range 0-10
Smoke Developed Index	5	Range 0-10

The reaction of thin unsupported flexible materials to flame impingement can be assessed in accordance with AS 1530.2. Where materials of thickness less than 2mm that are sufficiently flexible to be bent by hand around a mandrel of 2mm diameter or less are subjected to the test described herein, they should also be subjected to the test in AS 1530.2.

Ignition is initiated by a pilot flame that is held near, but does not touch the specimen. A material that does not ignite during the standard test may ignite if contacted with a pilot flame during the test.

Inconsistent flame spread behaviour was observed. Only 7 of the nine specimens registered flame spread. The Spread of Flame Index quoted above is based on these 7 specimens.

The specimens were mounted to simulate use in an unsupported or free hanging mode. The results may be significantly different when mounted to simulate a wall cladding or upholstery application.

To allow free movement of sample during testing all corners were folded away from the clamps.

Each test specimen was sandwiched between two layers of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions, stapled through at four points, each 100mm from the centre of the sample and the assembly clamped in four places.

These results only apply to the specimen mounted, as described in this report. The result of this fire test 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 fire hazard under all fire conditions.

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