

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 : Hiraoka & Co. Ltd
1-21-7 Minowa
Taito-ku Tokyo 110-011
Japan

Test Number : 18-004456
Issue Date : 21/08/2018
Print Date : 21/08/2018

Sample Description Clients Ref : "HG102"
Woven coated fabric
Colour : White
End Use : Architectural Membranes
Nominal Composition : Polyester base cloth, PVC coating with PVDF lacquer
Nominal Mass per Unit Area/Density : 800g/m2
Nominal Thickness : 0.63mm

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:	20/08/2018		
	Standard Error	Mean	
Ignition time	0.51	5.27	min
Flame propagation time	19.4	45.0	sec
Heat release integral	14.0	69.9	kJ/m ²
Smoke release, log d	0.0916	-0.0353	
Optical density, d		1.0632	/ metre

Number of specimens ignited:	9
Number of specimens tested:	9

Regulatory Indices:	
Ignitability Index	15 Range 0-20
Spread of Flame Index	8 Range 0-10
Heat Evolved Index	2 Range 0-10
Smoke Developed Index	8 Range 0-10

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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.

Specimens tended to flash before ignition. Ignition was based on the occurrence of a single flash of flame which lasted longer than 10 seconds.

Inconsistent flame spread behaviour was observed. Only 5 of the 9 specimens registered flame spread. The Spread of Flame Index quoted above is based on these 5 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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