

# 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

## TEST REPORT

**Client :** James Dunlop  
8 Penihana Place  
Mangere. Auckland 2022  
New Zealand

**Test Number :** 21-000649  
**Issue Date :** 18/02/2021  
**Print Date :** 18/02/2021

**Sample Description** Clients Ref : "Eclipse"  
Woven blackout fabric  
Colour : Grey  
End Use : Drapery  
Nominal Composition : 100% Polyester

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:	18-02-2021	
	Standard Error	Mean
Ignition time	Nil	Nil min
Flame propagation time	Nil	Nil sec
Heat release integral	Nil	Nil kJ/m <sup>2</sup>
Smoke release, log d	0.0000	-0.7033
Optical density, d		0.2527 / metre
No of samples which ignited		2
For Samples which ignited		
Smoke Release (Log D) - Mean		-0.7033
Smoke Release (Log D) - Standard Error		0.0000
No of samples which did not ignite		7
For Samples which did not ignite		
Smoke Release (Log D) - Mean		-1.8541
Smoke Release (Log D) - Standard Error		0.0477
Number of specimens tested:		9
Regulatory Indices:		
Ignitability Index		0 Range 0-20

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Fiona McDonald

APPROVED SIGNATORY

MICHAEL A. JACKSON B.Sc.(Hons)  
MANAGING DIRECTOR

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Spread of Flame Index	0	Range 0-10
Heat Evolved Index	0	Range 0-10
Smoke Developed Index	5	Range 0-10

Inconsistent flame spread behaviour was observed. Only 1 of the 9 specimens registered flame spread. The Spread of Flame Index quoted above is based on these 1 specimens.

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.

The specimens melted and flowed away from the area of maximum heat during the test. Due to this phenomena it should be recognised that this test result may not be a true indication of the product's fire hazard properties.

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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