

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 : Gracetech Textiles Aust Pty Ltd
61 Gateway Boulevard
Epping VIC 3076

Test Number : 21-000450
Issue Date : 23/02/2021
Print Date : 23/02/2021

Sample Description Clients Ref : "Zest/Yang BO"
Woven coated textile
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : Approx 410g/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:	12-02-2021	
	Standard Error	Mean
Ignition time	0.20	7.25 min
Flame propagation time	2.8	19.2 sec
Heat release integral	2.9	77.6 kJ/m ²
Smoke release, log d	0.0216	-0.6220
Optical density, d		0.2402 / metre
No of samples which ignited		6
For Samples which ignited		
Smoke Release (Log D) - Mean		-0.6220
Smoke Release (Log D) - Standard Error		0.0216
No of samples which did not ignite		3
For Samples which did not ignite		
Smoke Release (Log D) - Mean		-0.8885
Smoke Release (Log D) - Standard Error		0.0338
Number of specimens tested:		9

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Chris Campbell

APPROVED SIGNATORY

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

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Regulatory Indices:

Ignitability Index	13	Range 0-20
Spread of Flame Index	9	Range 0-10
Heat Evolved Index	3	Range 0-10
Smoke Developed Index	5	Range 0-10

Inconsistent flame spread behaviour was observed. Only 6 of the 9 specimens registered flame spread. The Spread of Flame Index quoted above is based on these 6 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.

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

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.

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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