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 : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 20-001456
Issue Date : 31/03/2020
Print Date : 31/03/2020
Order Number : 42309

Sample Description

Clients Ref : "Stream"
Woven fabric
Colour : Gull
End Use : Cubicle screen/drapery
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : 223g/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: 31/03/2020

	Standard Error	Mean	
Ignition time	0.19	9.09	min
Flame propagation time	Nil	Nil	sec
Heat release integral	1.1	48.2	kJ/m²
Smoke release, log d	0.0207	-0.8980	
Optical density, d		0.1272	/ metre

Number of specimens ignited: 6
Number of specimens tested: 6

Regulatory Indices:

Ignitability Index	11	Range 0-20
Spread of Flame Index	0	Range 0-10
Heat Evolved Index	1	Range 0-10
Smoke Developed Index	4	Range 0-10

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Accredited for compliance with ISO/IEC 17025 - Testing
- Chemical Testing : Accreditation No. 983
- Mechanical Testing : Accreditation No. 985
- Performance & Approvals Testing : Accreditation No. 1356

APPROVED SIGNATORY

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

0204/11/06

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Issue Date : 31/03/2020
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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.

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.

Each test specimen had an unattached backing of 4.5mm thick fibre reinforced cement board.

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

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.

Each test specimen was restrained on the exposed face by a layer of galvanised welded square mesh made from wire of nominal diameter 0.8mm and nominal spacing 12mm in both directions and securely fixed to a backing board at four points each 100mm from the centre of the sample and the assembly clamped in four places.

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

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Accredited for compliance with ISO/IEC 17025 - Testing

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- Mechanical Testing	: Accreditation No.	985
- Performance & Approvals Testing	: Accreditation No.	1356

AWTA LIMITED

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TEST REPORT

Client : Materialised Pty Ltd
19 Heath Road
Blakehurst NSW 2221

Test Number : 20-001455
Issue Date : 25/03/2020
Print Date : 25/03/2020
Order Number : 42309

Sample Description

Clients Ref : "Stream"
Woven fabric
Colour : Gull
End Use : Cubicle screen/drapery
Nominal Composition : 100% Polyester
Nominal Mass per Unit Area/Density : 223g/m2

AS 1530.2-1993 **Methods for Fire Tests on Building Materials, Components and Structures.**
Part 2: Test for Flammability of Materials

	Length	Width	
Date Tested		25/03/2020	
Flammability Index		4	
Spread Factor	0	3	
Heat Factor	1	1	
Maximum height (d)			
Mean	2.8	4.3	
Coefficient of Variation	9.1	16.2	%
Heat (a)			
Mean	1.5	2.2	°C.min
Coefficient of Variation	0.0	12.2	%
Number of Specimens Tested	6	6	
Observation	Melting and visible smoke		

These test results relate only to the behaviour of the test specimens of the material under the particular conditions of the test, and they are not intended to be the sole criterion for assessing the potential fire hazard of the material in use.

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