

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 : PolyPIU Australia
18 Webber Parade
East Keilor VIC 3033

Test Number : 17-000541
Issue Date : 27/02/2017
Print Date : 1/03/2017

Sample Description Clients Ref : Panel PIU 40mm
Hollow cladding sheet
Colour : Transparent
End Use : Cladding, Facade
Nominal Composition : Polycarbonate
Nominal Mass per Unit Area/Density : 4.3kg/m²
Nominal Thickness : 40mm

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:	27/02/2017	
	Standard Error	Mean
Ignition time	0.29	16.31 min
Flame propagation time	Nil	Nil sec
Heat release integral	19.5	102.8 kJ/m ²
Smoke release, log d	0.0251	-0.1377
Optical density, d		0.7320 / metre
No of samples which ignited		4
For Samples which ignited		
Smoke Release (Log D) - Mean		-0.1377
Smoke Release (Log D) - Standard Error		0.0251
No of samples which did not ignite		5
For Samples which did not ignite		
Smoke Release (Log D) - Mean		-1.5805
Smoke Release (Log D) - Standard Error		0.1114

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: Accreditation No. 983
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Test Number : 17-000541
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Number of specimens tested:	9
Regulatory Indices:	
Ignitability Index	4 Range 0-20
Spread of Flame Index	0 Range 0-10
Heat Evolved Index	4 Range 0-10
Smoke Developed Index	7 Range 0-10

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.

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

Inconsistent flame spread behaviour was observed. Only 2 of the nine specimens registered flame spread. The Spread of Flame Index quoted above is based on these 2 specimens.

The specimens melted away from the area of maximum heat and produced flaming droplets 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.

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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APPROVED SIGNATORY

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MANAGING DIRECTOR