

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 : Polystyrene Solutions
40 Commercial Drive
Ashmore QLD 4214

Test Number : 19-002129
Issue Date : 20/05/2019
Print Date : 22/05/2019

Sample Description Clients Ref : "EPS- SLR"
Rigid Cellular Polystyrene Foam"
Colour : White
Nominal Mass per Unit Area/Density : 13.5kg/m3

AS 2498.3-1993

Methods of testing rigid cellular plastics - Determination of compressive stress

Date of Testing	08/05/2019
Specimen	Compressive Stress at 10% Relative Deformation
1	72 kPa
2	72 kPa
3	77 kPa
4	74 kPa
5	74 kPa
Mean	74 kPa

Tested at 20±2°C and 65±3% Relative Humidity.

All tested specimens were preconditioned in an oven at 70±2°C for seven days and conditioned at 20±2°C and 65±3% Relative Humidity for a minimum of 16 hours prior to testing

Compliance to AS 1366.3-1992, Table 2- Compressive Stress at 10% deformation

Requirement:

Class	kPa (minimum)	
SL	70	Complies

166355

35577

Page 1 of 5

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved

Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

This document shall not be reproduced except in full and shall be rendered void if amended or altered.

This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and form of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.



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 : Polystyrene Solutions
40 Commercial Drive
Ashmore QLD 4214

Test Number : 19-002129
Issue Date : 20/05/2019
Print Date : 22/05/2019

AS 2498.4-1993

Methods of testing rigid cellular plastics - Determination of cross-breaking strength

Date of Testing	08/05/2019
Specimen	Cross-Breaking Strength
1	158 kPa
2	184 kPa
3	167 kPa
Mean	170 kPa

Tested at 20±2°C and 65±3% Relative Humidity.

All tested specimens were preconditioned in an oven at 70±2°C for seven days and conditioned at 20±2°C and 65±3% Relative Humidity for a minimum of 16 hours prior to testing

Compliance to AS 1366.3-1992, Table 2- Cross Breaking Strength

Requirement:

Class	kPa (minimum)	
SL	135	Complies

166355

35577

Page 2 of 5

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved

Samples, and their identifying descriptions have been provided by the client unless otherwise stated.
AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

This document shall not be reproduced except in full and shall be rendered void if amended or altered.

This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and form of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.



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 : Polystyrene Solutions
40 Commercial Drive
Ashmore QLD 4214

Test Number : 19-002129
Issue Date : 20/05/2019
Print Date : 22/05/2019

AS-2498-5-1993
METHOD 5

**Method of Testing Rigid Cellular Plastics:
Determination of Water Vapour Transmission Rate**

Water Vapour Transmission Rate

Date of Testing	17/05/2019
Specimen	Rate (Microgram/m ² .s)
1	417 µg/m ² .s
2	433 µg/m ² .s
3	439 µg/m ² .s
4	421 µg/m ² .s
5	438 µg/m ² .s
Mean	429 µg/m ² .s

Hot melt glue sealant used.

Test conditioned at 20+/-2 DegC and 85+/-3% relative humidity
Sealant Used: Hot Melting Gun
Diameter of Tested Sample: 63.6mm instead of 65mm

Compliance to AS 1366.3-1992, Table 2- Water Vapour Transmission
Class µg/m².s
SL 630 maximum Complies

166355

35577

Page 3 of 5

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved

Samples, and their identifying descriptions have been provided by the client unless otherwise stated.
AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

This document shall not be reproduced except in full and shall be rendered void if amended or altered.

This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and form of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.



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 : Polystyrene Solutions
40 Commercial Drive
Ashmore QLD 4214

Test Number : 19-002129
Issue Date : 20/05/2019
Print Date : 22/05/2019

AS 2498.6-1993
Method 6

Methods of Testing Rigid Cellular Plastics
Determination of Dimensional Stability

Date of Testing

02/05/2019

Change In	Length %	Width %	Thickness %
1	0.0	0.0	0.0
2	0.0	0.0	0.0
3	0.0	0.0	0.0
Mean	0.0	0.0	0.0

Test Condition: 7 days at 70degC

Observations: After exposure no change in dimension and appearance

Compliance to AS 1366.3-1992 Table 2

Requirement: Maximum 1.0%

Complies

166355

35577

Page 4 of 5

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved

Samples, and their identifying descriptions have been provided by the client unless otherwise stated.
AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

This document shall not be reproduced except in full and shall be rendered void if amended or altered.

This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and form of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.



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 : Polystyrene Solutions
40 Commercial Drive
Ashmore QLD 4214

Test Number : 19-002129
Issue Date : 20/05/2019
Print Date : 22/05/2019

AS 2122.1-1993

Determination of Flame Propagation - Surface Ignition of Vertically Oriented Specimens of Cellular Plastics

Date of Testing	29/04/2019
Method Used	Method A
Mean Density	15.18 kg/m ³
Median Flame Duration Time	1.00 sec
Eighth Value of Flame duration	1.05 sec
Standard Deviation of Flame duration	0.03
Median Volume retained	47.69 %
Eighth Value in Volume	45.35 %
Standard Deviation of Volume	0.02

Note: Specimens conditioned in accordance to AS 2498.1 prior to testing.

These tests results on their own do not indicate the fire hazard of the material or product under actual fire conditions and consequently should not be applied to the assessment of fire hazard without taking into account additional supportive information.

All specimens produced molten / flaming droplet.

Compliance to AS 1366.3-1992, Table 2- Flame Propagation

Requirement: Class SL

Median Flame Duration (max) : 2s

Eighth Value (max) : 3s

Median Volume Retained : 18 %

Eighth Value (min): 15 %

Complies

166355

35577

Page 5 of 5

© Australian Wool testing Authority Ltd
Copyright - All Rights Reserved

Samples, and their identifying descriptions have been provided by the client unless otherwise stated. AWTA Ltd makes no warranty, implied or otherwise, as to the source of the tested samples. The above test results relate only to the sample or samples tested. The above test results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION ONLY.

This document shall not be reproduced except in full and shall be rendered void if amended or altered.

This document, the names AWTA Product Testing and AWTA Ltd may be used in advertising providing the content and form of the advertisement have been approved in advance by the Managing Director of AWTA Ltd.

