



Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **TEST SUMMARY**

## Objective

Assessment of supplied sample to AS4654.1-2012

Project

**Evaluation of Emer-Proof Advanced to AS4654.1-2012** 

Report Number

397-27 AS4654.1-2012

#### Customer

NAME Fosroc

ADDRESS 1956 Dandenong Rd, Clayton

**VIC 3168** 

CONTACT PERSON Phil Jones
TELEPHONE +64 21 833216

Name of test material

**Emer-Proof Advanced** 

Description of test material

Single component water based grey membrane

Date of receipt of test material

14/11/2024

Report number	Issue Date	<b>Expiry Date</b>
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## Testing Facility and Location

NAME XTec Gen Pty Ltd
ADDRESS 30-32 Park Avenue

Woodville North 5012

ABN 22634729294

## LIMITATION

The test results reported here relate only to the items tested.

## **CUSTOMER SUPPLIED INFORMATION & DATA**

2 x coats @ 750um Expected DFT: 750um Dried film supplied

## **TERMS AND CONDITIONS**

This report is issued in accordance with the Terms and Conditions as detailed and agreed in the XTecGen Test Request and Sample Submission Form.

## **SIGNATORIES**

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Reviewer

Michael Bakanyozo

Author

Eric Scardigno

Head Laboratory Technician

A

Laboratory Manager

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

## **SUMMARY OF TESTS**

## AS4654.1 Requirements:

PROPERTY	METHOD	RESULT	ASSESSMENT	ASSESSMENT
Abrasion Resistance: Non-Trafficable	AS 1580.403.2	0.046 mm	AS 4654.1 Paragraph 2.3	Meets requirement for non-trafficable membrane
Abrasion Resistance: Trafficable	AS 1580.403.2	0.097 mm	AS 4654.1 Paragraph 2.3	Meets requirement for occasional service vehicle traffic and pedestrian traffic
Bond Strength	ASTM C794	45.97 N	State result	
Acceptance of Cyclic movement	AS 4654.1 Appendix B	Failure not observed	AS 4654.1 Appendix B, Paragraph B4	PASS
Durability: Control Elongation at Break	AS1145.3	426 %	AS 4654.1 Appendix A, Table A1	CLASS III
Durability: Control Tensile Strength		0.68 MPa	State result	
Durability: Water Immersion Elongation at Break		452 %	AS 4654.1 Appendix A, Table A4	PASS
Durability: Water Immersion Tensile Strength	AS 4654.1	0.16 MPa	State result	
Durability: Detergent Immersion Elongation at Break	Appendix A	398 %	AS 4654.1 Appendix A, Table A4	PASS
Durability: Detergent Immersion Tensile Strength		0.08 MPa	State result	
Durability: Heat Aging Elongation at Break	N/A	285 %	AS 4654.1, Table A4	PASS
Durability: Heat Aging Tensile Strength		1.57 MPa	State result	

Report number	Issue Date	<b>Expiry Date</b>
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

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Durability: Ultraviolet			AS 4654.1	
Resistance	111/1 aman	235 %	Appendix A,	PASS
Elongation at Break	UV Lamp		Table A4	
Durability: Ultraviolet				
Resistance		1.19 MPa	State result	
Tensile Strength				
Temperature		4.16g/m²/24		
Resistance: Water	AMTM004	hours	State result	
Vapour Transmission		nours		
Water Vapour	ASTM E96	4.34g/m <sup>2</sup> /24	State result	
Transmission	ASTIVI E90	hours	State result	

Report number	Issue Date	<b>Expiry Date</b>
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## ABRASION RESISTANCE: NON-TRAFFICABLE

### **Testing**

Test carried out in accordance with AS 1580.403.2.

### Additions, deviations and/or exclusions from AS1580.403.2:

Determination of abrasive wear performed as per AS4654.1, Paragraph 2.3.1

#### Results

Date of test: 16/12/2024

PARAMETER	VALUE	
Abrasion assessment method	Depth of abrasion	
Abrasive wheels: Model	CS-10	
Panel 1 Abrasive wheels: Serial Number & Expiry Date	LX20C1 – November 2026	
Panel 2 Abrasive wheels: Serial Number & Expiry Date	LX20C1 – November 2026	
Model of abraser	Gester GT-C14B-2	
Number of cycles per test panel	500	

PANEL	READING	THICKNESS	THICKNESS	LOSS OF
		BEFORE	AFTER	MEMBRANE
		ABRASION	ABRASION	BUILD
		(mm)	(mm)	(mm)
1	1	3.327	3.312	0.015
	2	3.442	3.383	0.059
	3	3.117	3.063	0.054
2	1	3.480	3.449	0.031
	2	3.210	3.157	0.053
	3	3.482	3.417	0.065
Mean		3.343	3.297	0.046
Standard D	eviation	0.165	0.168	0.019

Passing Requirement: "When tested in accordance with AS 1580.403.2 using the CS-10 wheel with 500 cycles, for areas subjected only to maintenance access, the depth of abrasion shall be less than 0.2mm"

Result: 0.046mm. This sample is suitable for areas subjected to only maintenance access.

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## ABRASION RESISTANCE: TRAFFICABLE

### **Testing**

Test carried out in accordance with AS 1580.403.2.

## Additions, deviations and/or exclusions from AS 1580.403.2:

Determination of abrasive wear performed as per AS4654.1, Paragraph 2.3.2

#### Results

Date of test: 16/12/2024

PARAMETER	VALUE
Abrasion assessment method	Depth of abrasion
Abrasive wheels: Model	H-22
Panel 1 Abrasive wheels: Serial Number	NA22B1
Panel 2 Abrasive wheels: Serial Number	NA22B1
Model of abraser	Gester GT-C14B-2
Number of cycles per test panel	1000

PANEL	READING	THICKNESS	THICKNESS	LOSS OF
		BEFORE	AFTER	MEMBRANE
		ABRASION	ABRASION	BUILD
		(mm)	(mm)	(mm)
1	1	3.362	3.328	0.034
	2	3.458	3.356	0.102
	3	3.460	3.318	0.142
2	1	3.365	3.272	0.093
	2	2.943	2.857	0.086
	3	3.232	3.105	0.127
Mean		3.303	3.206	0.097
Standard D	eviation	0.056	0.020	0.038

### **Passing Requirement:**

"Abrasion resistance for trafficable shall be as follows:

a) When tested in accordance with AS 1580.403.2 using the H-22 wheel with 1000 cycles, for areas subjected only to pedestrian traffic, the depth of abrasion shall be less than 0.2mm.

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

- b) When tested in accordance with AS1580.403.2 using the H-22 wheel with 1000 cycles, for areas subjected only to occasional service vehicle traffic, the depth of abrasion shall be less than 0.1mm.
- c) When tested in accordance with AS 1580.403.2 using the H-22 wheel with 1000 cycles, for areas subjected to regular vehicle traffic, the depth of abrasion shall be less than 0.05mm."

Result: The test achieved a depth of abrasion of 0.097mm. This sample is suitable only for occasional service vehicle traffic, and pedestrian traffic.

Report number	Issue Date	<b>Expiry Date</b>
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

## **BOND STRENGTH**

Date of test: 14/01/2025

Testing:

Testing carried out in accordance with ASTM C794.

Additions, deviations and/or exclusions from ASTM C794:

Nil

## Specimen Preparation:

PARAMETER	VALUE
Substrate	Concrete block
Substrate preparation	Wiped with damp cloth
Substrate primer	WPA 360
Mesh preparation	Wiped with damp cloth
Mesh primer	N/A

### Test Results:

READING PEAK PEEL FORCE		MODE OF FAILURE			
	(N)	SUBSTRATE FAILURE (%)	ADHESIVE FAILURE (%)	COHESIVE FAILURE (%)	SCREEN DELAMINATION (%)
Specimen 1 Reading 1	62.03	0	0	0	100
Specimen 1 Reading 2	47.42	5	0	0	95
Specimen 1 Reading 3	46.01	10	0	0	90
Specimen 1 Reading 4	43.51	0	20	0	80
Specimen 2 Reading 1	50.52	0	0	0	100
Specimen 2 Reading 2	43.21	5	0	0	95

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

/8					
Specimen 2 Reading 3	39.99	5	0	0	95
Specimen 2 Reading 4	42.64	0	0	0	100
Specimen 3 Reading 1	48.15	0	0	0	100
Specimen 3 Reading 2	41.75	0	5	0	95
Specimen 3 Reading 3	41.55	0	0	0	100
Specimen 3 Reading 4	44.81	0	0	0	100
Average	45.97				
Std Dev	5.91				

**Result: 45.97N** 

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

## CYCLIC MOVEMENT

Date of test: 2/12-6/12/2024

## Testing:

Testing carried out in accordance with AS 4654.1 Appendix B "Assessment of resistance of waterproofing membranes to cyclic movement"

Additions, deviations and/or exclusions from AS 4654.1 Appendix B:

Nil

#### Test Parameters:

PARAMETER	VALUE
Membrane class	III
Number of cycles	50
Cycle time	2 Hours
Cycle expansion	4 mm
Sample Size	65 mm x 25 mm
Sample span	2 mm between plates
Sample thickness	0.792 mm

#### Test Results:

TEST RESULT	VALUE
Number of cycles completed	50
Surface crazing	Nil
Surface tears	Nil
Membrane rupture	Nil

#### Test Observations:

DAY	DATE	NUMBER	Failure Observed		Failure Observed
		OF	RUPTURE/HOLING		OTHER
		CYCLES		•	
1	2/12/2024	0	□Yes	⊠No	
2	3/12/2024	13	□Yes	⊠No	
3	4/12/2024	23	□Yes	⊠No	
4	5/12/2024	37	□Yes	⊠No	
5	6/12/2024	50	□Yes	⊠No	

Passing requirement: "Any rupture holing the specimen or extending through the thickness for more than 1mm in from the edge of the specimen shall be taken as a failure and the number of cycles to failure shall be reported. If failure does not occur after 50 cycles it shall be reported together with the

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

types of any surface defects that have been induced and the number of cycles at which onset of the defect occurred"

Result: Pass. Meets the requirement for CSIRO moving joint test as per AS 4654.1 Appendix B.

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **DURABILITY OF MEMBRANE**

**CONTROL SET** 

Date of test: 25/11/2024

Testing: Test carried out in accordance with AS 1145.3.

Additions, deviations and/or exclusions from AS 1145.3: Nil

### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.9°C
Ambient humidity (conditioning)	38.0-48.9%RH
Ambient temperature (testing)	23.9°C
Ambient humidity (testing)	56.9%RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Method of preparation of specimens	Dry film supplied
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

#### Test Results:

Replicate	Sample thickness (mm)	Maximum Extension (mm)	Tensile Strength (MPa)	Elongation at Break (%)
1	0.81	210.9	0.68	421
2	0.80	201.1	0.68	402
3	0.82	225.0	0.72	450
4	0.80	218.3	0.70	437
5	0.80	209.1	0.64	418
Mean	0.81	212.9	0.68	426
Std Deviation	0.01	9.1	0.03	18

Requirement for Class III (high extensibility): ≥300% elongation at break

Requirement for Class II (medium extensibility) 60-299% elongation at break

Requirement for Class I (low extensibility) <60% elongation at break.

**Classification: Class III** 

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **DURABILITY OF MEMBRANE**

## WATER IMMERSION

Date of test: 17/12/2024 - 4/02/2025

## Testing:

Test carried out in accordance with AS 4654.1 Table A4.

Additions, deviations and/or exclusions from AS 4654.1 Table A4.

Nil

### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.9°C
Ambient humidity (conditioning)	38.0-48.9%RH
Ambient temperature (testing)	23.3-24.5°C
Ambient humidity (testing)	39.9-59.1%RH
Minimum accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Method of preparation of specimens	Dry film supplied
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

## Test Results:

Sample Number	Sample	Maximum	Tensile strength	Elongation at
	thickness	Extension	(MPa)	break (%)
	(mm)	(mm)		
1	0.92	280.0	0.18	560
2	0.92	263.6	0.17	527
3	0.92	269.4	0.19	539
7 Day Means	0.92	271.0	0.18	542
7 Day Std Devs	0.00	8.3	0.01	17
4	1.05	203.4	0.12	407
5	1.06	188.2	0.11	376
6	1.02	188.8	0.11	378
28 Day Means	1.05	193.5	0.11	387
28 Day Std Devs	0.02	8.6	0.01	17
7	0.99	230.6	0.15	461

Report number	Issue Date	<b>Expiry Date</b>
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

8	0.99	218.8	0.18	438
9	0.99	228.3	0.17	457
56 Day Means	0.99	225.9	0.16	452
56 Day Std Devs	0.00	6.3	0.02	13

Passing Requirement: "Elongation at break shall not be less than 25% retention of elongation at break of the controls" 58] Table 6.1. A failure is for less than 25% retention of elongation at break of the controls".

To pass this condition an elongation at break value of 107% or greater is required.

Result: 452% PASS

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **DURABILITY OF MEMBRANE**

## **DETERGENT IMMERSION**

Date of test: 17/12/2024 – 4/02/2025

## Testing:

Test carried out in accordance with AS 4654.1 Table A4.

Additions, deviations and/or exclusions from AS 4654.1 Table A4:

Nil

### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.9°C
Ambient humidity (conditioning)	38.0-48.9%RH
Ambient temperature (testing)	23.3-24.5°C
Ambient humidity (testing)	39.9-59.1%RH
Minimum accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Method of preparation of specimens	Dry film supplied
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

## Test Results: Detergent Immersion

Sample Number	Sample	Maximum	Tensile strength	Elongation at break
	thickness	Extension	(MPa)	(%)
	(mm)	(mm)		
1	0.95	273.0	0.16	546
2	0.94	275.0	0.19	550
3	0.94	269.3	0.19	539
7 Day Means	0.94	272.4	0.18	545
7 Day Std Devs	0.00	2.9	0.02	6
4	1.01	133.9	0.08	268
5	1.03	182.9	0.10	366
6	1.01	208.4	0.12	417
28 Day Means	1.01	175.1	0.10	350
28 Day Std Devs	0.02	37.9	0.02	76
7	1.02	205.0	0.07	410

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

8	0.98	226.0	0.09	452
9	1.00	166.5	0.08	333
56 Day Means	1.00	199.2	0.08	398
56 Day Std Devs	0.02	30.2	0.01	60

Passing Requirement: "Elongation at break shall not be less than 25% retention of elongation at break of the controls".

To pass this condition an elongation at break value of 107% or greater is required.

Result: 398% PASS

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **DURABILITY OF MEMBRANE**

### **HEAT AGING**

Date of test: 11/12/2024

#### Testing:

Test carried out in accordance with AS 4654.1 Table A4.

Additions, deviations and/or exclusions from AS 4654.1 Table A4:

Nil

### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.9°C
Ambient humidity (conditioning)	38.0-48.9%RH
Ambient temperature (testing)	24.5°C
Ambient humidity (testing)	47.2%RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Method of preparation of specimens	Dry film supplied
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

## Test Results:

Number of	Sample thickness	Maximum	Tensile strength	Elongation at
replicates	(mm)	Extension	(MPa)	break (%)
		(mm)		
1	0.79	134.2	1.80	268
2	0.80	147.8	1.44	296
3	0.80	144.8	1.46	290
Mean	0.79	142.3	1.57	285
Std Deviation	0.01	7.2	0.20	14

Passing Requirement: "Elongation at break shall be not less than 50% of the result recorded for the controls".

To pass this condition an elongation at break value of 213% or greater is required.

Result: 285% PASS

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **DURABILITY OF MEMBRANE**

## **ULTRAVIOLET EXPOSURE**

Date of test: 8/01/2025

#### Testing:

Test carried out in accordance with AS 4654.1 Table A4, Appendix A.

Additions, deviations and/or exclusions from AS 4654.1 Table A4, Appendix A: Nil

### Test Parameters:

PARAMETER	VALUE
Ambient temperature (conditioning)	23.4-24.9°C
Ambient humidity (conditioning)	38.0-48.9%RH
Ambient temperature (testing)	24.2°C
Ambient humidity (testing)	44.7 RH
Accuracy grading of test machine	A
Specimen type	Type 2
Elongation measurement type:	Video Extensometer
Method of preparation of specimens	Dry film supplied
Orientation of specimens to direction of cast	Parallel to direction of casting blade
Clamping device:	Pneumatic jaws
Testing speed:	50mm/min

## Test Results:

Number of replicates	Sample thickness (mm)	Maximum Extension	Tensile strength (MPa)	Elongation at break (%)
replicates	(11111)	(mm)	(ivii u)	Siedk (70)
1	0.79	110.3	1.20	221
2	0.76	125.1	1.12	250
3	0.76	117.1	1.24	234
Mean	0.77	117.5	1.19	235
Std Deviation	0.02	7.4	0.06	15

Passing Requirement: "Elongation at break shall be not less than 40% of the result recorded for the controls".

To pass this condition an elongation at break value of 171% or greater is required.

Result: 235% PASS

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## **TEMPERATURE RESISTANCE**

Date of test: 2/12 - 16/12/2024

## Testing:

Test carried out in accordance with AMTM004.

Additions, deviations and/or exclusions from AMTM004:

Nil

## Test Parameters:

PARAMETER	VALUE
Cold exposure: Immersion date	25/11/2024
Cold exposure: Removal date	27/11/2024
Cold exposure: Temperature range	-15.0/-17.6
Heat exposure: Immersion date	27/11/2024
Heat exposure: Removal date	29/11/2024
Heat exposure: temperature range	85°C
WVT: Date of test	2/12-16/12/2024
WVT: Test temperature	23.1-24.3°C
WVT: Test humidity	48.1-58.6% RH
WVT: Cup design	Round, anodised aluminium cup
WVT: Cup sealant	Paraffin Wax
WVT: Desiccant	Anhydrous Calcium Chloride

## Test Results-Temperature Resistance

SAMPLE	THICKN	SIDE OF	REGRESSION		WATER
	ESS	SPECIMEN			VAPOUR
	(mm)	HIGHER	EQUATION	r <sup>2</sup>	TRANSMISSON
		VAPOUR	EQUATION	VALUE	RATE (g/m <sup>2</sup> /24
		PRESSURE		VALUE	hours)
		WAS APPLIED			
		TO			
1	0.78	Side A, top of	$Mass_{(g)}=0.0006(Time_{hr})+170.05$	0.9993	4.34
		cast film			
2	0.79	Side A, top of	$Mass_{(g)}=0.0005(Time_{hr})+161.98$	0.9990	3.60
		cast film			
3	0.79	Side B, bottom	$Mass_{(g)}$ =0.0006(Time <sub>hr</sub> )+171.35	0.9995	4.34
		of cast film			

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing

4	0.77	Side B, bottom	$Mass_{(g)}=0.0006(Time_{hr})+170.81$	0.9996	4.34
		of cast film			
Mean	0.78				4.16
Std	0.01				0.37
Deviation					

Result: 4.16 g/m<sup>2</sup>/24 hours. PASS

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

## WATER VAPOUR TRANSMISSION RATE

Date of test: 26/11 - 10/12/2025

## Testing:

Test carried out in accordance with ASTM E96 Desiccant Method.

Additions, deviations and/or exclusions from ASTM E96 Desiccant Method:

Nil

### Test Parameters:

PARAMETER	VALUE
Test temperature:	23.5-24,3°C
Test humidity:	48.1-59.6% RH
Cup design:	Round, anodised aluminium cup
Sealant:	Paraffin Wax
Desiccant:	Anhydrous Calcium Chloride

### Test Results

SAMPLE	THICKNESS (mm)	SIDE OF SPECIMEN	REGRESSION		WATER VAPOUR
	(111111)	HIGHER	FOLIATION	r <sup>2</sup>	- TRANSMISS
		VAPOUR	EQUATION	•	ON RATE
		PRESSURE		VALUE	$(g/m^2/24)$
		WAS			hours)
		APPLIED TO			
1	0.78	Side A, top	Mass <sub>(g)</sub> =0.0006(Time <sub>hr</sub> )+170.95	0.9996	4.34
		of cast film			
2	0.78	Side A, top	Mass <sub>(g)</sub> =0.0006(Time <sub>hr</sub> )+170.99	0.9997	4.34
		of cast film			
3	0.77	Side B,	Mass <sub>(g)</sub> =0.0006(Time <sub>hr</sub> )+170.18	0.9997	4.34
		bottom of			
		cast film			
4	0.76	Side B,	Mass <sub>(g)</sub> =0.0006(Time <sub>hr</sub> )+171.07	0.9996	4.34
		bottom of			
		cast film			
Mean	0.77				4.34
Std	0.01				0.00
Deviation					

Result: 4.34 g/m<sup>2</sup>/24 hours. PASS

Report number	Issue Date	Expiry Date
397-27 AS4654.1-2012	13/02/2025	13/02/2028





Accredited for compliance with ISO/IEC 17025 – Testing 20678

**END OF REPORT** 

Report number	Issue Date	<b>Expiry Date</b>
397-27 AS4654.1-2012	13/02/2025	13/02/2028