

TEST REPORT



Accredited for compliance with ISO/IEC 17025 – Testing
20678

TEST SUMMARY

Objective

Assessment of supplied sample to ASTM E96

Project

Assessment of MB200 to ASTM E96

Report Number

514-1 ASTM E96

Customer

NAME	Forspec protective coatings
ADDRESS	22/972 Canterbury Rd, Roselands 2196
CONTACT PERSON	James Gilto
EMAIL	james@forspec.com.au
MOBILE	0424 424 178

Name of test material

MB200

Description of test material

Moisture Barrier Primer

Date of receipt of test material

29/09/2025

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514-1 ASTM E96	03/12/2025	03/12/2028

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Testing Facility and Location

NAME	XTec Gen Pty Ltd
ADDRESS	30-32 Park Avenue Woodville North 5012
ABN	22634729294

LIMITATION

Due to the nature of the sample, the laboratory was unable to form a free film on a non-stick substrate because of its very low viscosity. A paper carrier was therefore used to capture the product's cured characteristics, with an uncoated paper replicate prepared as the reference control.

CUSTOMER SUPPLIED INFORMATION & DATA

2 coats @ 0.2mm | Expected DFT 0.3mm

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

Author

Ruby Scardigno

Head Laboratory Technician

Reviewer

Eric Scardigno

Laboratory Manager

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SUMMARY OF TESTS

ASTM E96 Requirements:

PROPERTY	METHOD	RESULT	ASSESSMENT
Moisture vapour transmission rate	<i>ASTM E96 Desiccant method</i>	4.34g/m²/24 hours	<i>State Result</i>

PROPERTY	METHOD	RESULT	ASSESSMENT
Moisture vapour transmission rate	<i>ASTM E96 Desiccant method</i>	290.01g/m²/24 hours	<i>State Result</i>
A3 Paper Control Sample			

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WATER VAPOUR TRANSMISSION RATE – A3 Paper Control Sample

Date of test: 18/11-2/12/2025

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:	22.9-24.4°C
Test humidity:	41.4-51.4% RH
Cup design:	Round, anodised aluminium cup
Sealant:	Paraffin Wax
Desiccant:	Anhydrous Calcium Chloride

Test Results

SAMPLE	THICKNESS (mm)	SIDE OF SPECIMEN HIGHER VAPOUR PRESSURE WAS APPLIED TO	REGRESSION		WATER VAPOUR TRANSMIS SION RATE (g/m ² /24 hours)
			EQUATION	r ² VALUE	
1	0.11	Side A, top of cast film	Mass _(g) = 0.0401x(Time _{hr})+166.82	0.9684	290.01
Mean	0.11				290.01
Std Deviation	0.00				0.00

Result: 290.01g/m²/24 hours

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Test Results

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			EQUATION	r ² VALUE	
1	0.31	Side A, top of cast film	Mass _(g) = 0.0006x(Time _{hr})+159.36	0.9989	4.33
2	0.38	Side A, top of cast film	Mass _(g) = 0.0006x(Time _{hr})+167.82	0.9986	4.34
3	0.26	Side B, bottom of cast film	Mass _(g) = 0.0007x(Time _{hr})+167.07	0.9988	5.06
4	0.28	Side B, bottom of cast film	Mass _(g) = 0.0005x(Time _{hr})+166.78	0.9987	3.62
Mean	0.31				4.34
Std Deviation	0.05				0.59

Result: 4.34g/m²/24 hours

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END OF REPORT

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