

NZWTA



SAMPLE RECEIVED FROM: Mode3 Group Limited

Date: 1.5.17

SAMPLE DESCRIPTION:

Black Luxe high density premium recycled foam chip underlay – 10mm thick, 90 kg/m³ density.

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AS 4288: 2003 SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS.

ISO 9073-3 1989 DETERMINATION OF BREAKING FORCE AND EXTENSION

- 5 warp and 5 weft, 50 mm width samples
- Crosshead speed 100mm/min

	Average Results	Performance Requirements	Compliance to Standard
Breaking Force - Warp	5.70 kg (55.9 Newton)	Min. 40 Newton (4.1 kg)	Pass
S.D.	0.20		
CV%	3.44		
Breaking Force - Weft	4.60 kg (45.2 Newton)	Min. 40 Newton (4.1 kg)	Pass
S.D.	0.33		
CV%	7.27		
% Extension - Warp	12.1%	Max. 20% at 40 Newton	Pass
S.D.	0.86		
CV%	7.08		
% Extension - Weft	15.1%	Max. 20% at 40 Newton	Pass
S.D.	2.80		
CV%	18.6		

AS 2111.1. 1996 DETERMINATION OF THICKNESS OF TEXTILE FLOOR COVERINGS - 10 tests in conditioned state

	Thickness	Performance Requirements	Compliance to Standard
Average (mm)	9.79	Maximum Range (min. to max):	Pass
Minimum (mm)	9.64	Non-fibrous – 3mm	
Maximum (mm)	9.94	Fibrous & combined – 4mm	
Range	0.30		
S.D.	0.09	Thickness must not deviate to original	
CV%	0.96	thickness by: Non-fibrous – 12% max	
		Fibrous & combined – 15% max.	

ACCREDITED LABORATORY

All tests reported herein have been performed in accordance with the laboratory's scope of accreditation

"THIS REPORT APPLIES ONLY TO THE SAMPLES TESTED"

Samples and their identifying descriptions have been provided by the client unless otherwise stated. NZWTA Ltd makes no warranty, implied or otherwise as to the source of the tested samples. The above results are designed to provide THE CLIENT WITH GUIDANCE INFORMATION 0NLY. This document shall not be reproduced except in full.

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AS/NZS 2111.14 DETERMINATION OF THICKNESS LOSS AFTER PROLONGED, HEAVY STATIC LOADING OF TEXTILE FLOOR COVERINGS

- 5 samples, tested in conditioned state
- Load applied for 24 hours at 700 kPa pressure

	Thickness Loss (mm)	% Thickness Loss	Performance Requirements	Compliance to Standard
2 Minutes Recovery	1.38	14.0	After 24 Hours Recovery:	Pass
60 Minutes Recovery	0.64	6.56	Non-fibrous – 15% max.	
24 Hours Recovery	0.30	3.08	Fibrous & combined – 40% max.	

AS/NZS 2111.2 DETERMINATION OF THICKNESS LOSS UNDER DYNAMIC LOADING OF TEXTILE FLOOR **COVERINGS**

- 2 samples tested in conditioned state
- 1000 impacts applied

	Thickness Loss (mm)	% Thickness Loss	Performance Requirements	Compliance to Standard
Average	0.54	5.40	Non-fibrous – 15% max.	Pass
S.D.	0.10		Fibrous - 40% max.	
			Combined – 20% max.	

AS 4288: 2003 SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS. APPENDIX B- METHOD FOR DETERMINING OF RESISTANCE TO BREAKING AND CRACKING

	Breaking & Cracking	Performance Requirements	Compliance to Standard
Warp	No crack in foam (felts excluded)	No cracks longer than 50mm No cracks in any backing material	Pass
Weft	No crack in foam (felts excluded)		Pass



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AS 4288-2003 - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS APPENDIX A

4 samples tested in conditioned state

	Results
Average Initial Thickness at 2 kPa	9.69 mm
Average Thickness at 2 kPa After Dynamic Loading	9.27 mm
Average Deflection Before Dynamic Loading at 100 kPa	5.93 mm
Average Deflection After Dynamic Loading at 100 kPa	6.35 mm
Average Work of Compression Before Dynamic Loading	250 J/m ²
Average Work of Compression After Dynamic Loading	189 J/m ²
% Retention of Original Work of Compression	75.8%

	Performance Requirements	Compliance to Standard
Deflection After Dynamic Loading at 100 kPa:	1.5 mm minimum	Pass
	9.0 mm maximum	Pass
Work of Compression After Dynamic Loading:	50 J/m² minimum	Pass
	200 J/m ² maximum	Pass
Retention of Original Work of Compression:	40% minimum	Pass

Designation and description of intended use/application as per Figure 1 of AS 4288-2003:

Luxury - Luxury use, domestic /commercial where high energy absorption is desirable.

Classification:

LR Light residential use, not suitable for stairs

GR General Residential use

L Luxury use, domestic/commercial where high energy absorption is desirable

GC General commercial use, suitable for normal foot and wheel traffic

HC Heavy commercial use, suitable for heavy foot and wheel traffic and castor chairs



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