



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

CLIENT:  
Gilt Edge Industries Limited  
PO Box 7515  
Sydenham, Christchurch 8240

SAMPLE RECEIVED FROM:  
Gilt Edge Industries Limited

Date Received: 10.8.23

SAMPLE DESCRIPTION:  
CNZ 10mm/95kg yellow laminate carpet underlay.

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**AS 4288:2003 (R2016) - SOFT UNDERLAYS FOR TEXTILE FLOOR COVERINGS**

Date Tested: 15/8/2023

**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	76.9 Newton (7.8 kgf)	Min. 40 Newton (4.1 kg)	Pass
S.D.	3.3		
CV%	4.2		
Breaking Force - Weft	64.0 Newton (6.5 kgf)	Min. 40 Newton (4.1 kg)	Pass
S.D.	1.8		
CV%	2.8		
% Extension - Warp	11.6%	Max. 20% at 40 Newton	Pass
S.D.	0.8		
CV%	6.6		
% Extension - Weft	10.3%	Max. 20% at 40 Newton	Pass
S.D.	0.6		
CV%	5.5		

**AS 2111.1. 1996 DETERMINATION OF THICKNESS OF TEXTILE FLOOR COVERINGS**

- 10 tests in conditioned state

	Thickness	Performance Requirements	Compliance to Standard
Average (mm)	10.2	Maximum Range (min. to max): Non-fibrous – 3mm Fibrous & combined – 4mm  Thickness must not deviate to original thickness by: Non-fibrous – 12% max Fibrous & combined – 15% max.	Pass
Minimum (mm)	10.0		
Maximum (mm)	10.3		
Range	0.4		
S.D.	0.1		
CV%	1.3		

**"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 ONLY. This document shall not be reproduced except in full.

C Judan  
Key Technical Person

21/08/2023



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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	1.2	11.5	After 24 Hours Recovery: Non-fibrous – 15% max. Fibrous & combined – 40% max.	Pass
60 Minutes Recovery	0.6	6.2		
24 Hours Recovery	0.3	3.3		

**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	0.3	2.7	Non-fibrous – 15% max. Fibrous – 40% max. Combined – 20% max.	Pass
S.D.	0.0	-		

**AS 4288:2003 (R2016) - 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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APPENDIX A


4 samples tested in conditioned state

	Results
Average Initial Thickness at 2 kPa	10.2mm
Average Thickness at 2 kPa After Dynamic Loading	10.0mm
Average Deflection Before Dynamic Loading at 100 kPa	5.7mm
Average Deflection After Dynamic Loading at 100 kPa	6.0mm
Average Work of Compression Before Dynamic Loading	235 J/m <sup>2</sup>
Average Work of Compression After Dynamic Loading	206 J/m <sup>2</sup>
% Retention of Original Work of Compression	88.0%

	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/m <sup>2</sup> minimum	Pass
Retention of Original Work of Compression:	40% minimum	Pass

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