CSIRO Textile and Fibre Technology (ABN: 41 687 119 230)
Henry St, Belmont, Victoria 3216, Australia.
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CSIRO

Textile Testing Laboratory

TEST REPORT

Report Number: 05-0582 **Page** 1 of 5 **Date Issued:** 24/08/05

Client: DEECOM
Contact: Cam McGregor
Address: 311 Princes Highway
WERRIBEE VIC 3030

Fax: 03 9742 2877

Sample Description: Green Synthetic Grass

Test Method	Result	Unit
AS 2001.4 B02 – 2001 **COLOUR FASTNESS TO ARTIFICIAL LIGHT** **Xenon Arc fading lamp test** **Method 1** **(500 hours Exposure)**		
Colourfastness Rating	4-5	Rating
AS 2001.4 B02 - 2001 **UV Degradation** **(500 Hours Exposure)**	No obvious physical degradation	
AS 2001.2.3.1-01 **DETERMINATION OF MAXIMUM FORCE AND ELONGATION AT MAXIMUM FORCE USING THE STRIP METHOD**		
Breaking Load		
Direction 1	778	N
Direction 2	877	N
Extension		
Direction 1	21.1	%
Direction 2	13.1	%

Approved by: **D.R. Carroll - Laboratory Manager**

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Sample Description: Green Synthetic Grass

Test Method	Result	Unit
AS/NZS 2111.15:1996 **TEXTILE FLOOR COVERINGS - TESTS AND MEASUREMENTS** **METHOD 15: DETERMINATION OF TUFT WITHDRAWAL FORCE**		
Mean Withdrawal Force	65.6	N
Coefficient of Variation	15.8	%
Number of Tufts tested	30	
After Exposure **AS 2001.4 B02 – 2001** (500 hours exposure)	64.3 No significant loss in withdrawal force	N
AS/ NZS 2111.4:1996 **TEXTILE FLOOR COVERINGS – TESTS AND MEASUREMENTS** **METHOD 4: DETERMINATION OF SURFACE PILE MASS ABOVE THE SUBSTRATE**		
Mean Surface Pile Mass	2340	g/m²

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Sample Description: Green Synthetic Grass

Test Method	Result	Unit
AS/NZS 2111.9:1996 TEXTILE FLOOR COVERINGS – TESTS AND MEASUREMENTS METHOD 9: DETERMINATION OF THE NUMBER OF TUFTS PER UNIT LENGTH AND PER UNIT AREA		
Tufts parallel to selvedge	10.8	per 100mm
Tufts at right angles to selvedge	14.9	per 100mm
AS/NZS 2111.17:1996 TEXTILE FLOOR COVERINGS – TESTS AND MEASUREMENTS METHOD 17: DETERMINATION OF THICKNESS, COMPRESSION AND RECOVERY CHARACTERISTICS		
Mean thickness at 2kPa	18.6	mm
Mean thickness at 15kPa	9.0	mm
Mean thickness recovery at 2kPa	13.1	mm
Percentage compression thickness at 15kPa	51.6	%
Percentage thickness recovery	70.8	%

The mean is the result of 5 test specimens

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Sample Description: Green Synthetic Grass

Test Method	Result

ISO 15025:2000
PROTECTIVE CLOTHING – PROTECTION AGAINST HEAT AND FLAME
METHOD OF TEST FOR LIMITED FLAME SPREAD
Procedure B – EDGE IGNITION: Flame application time 10 s

Specimen	Afterflame Time	Afterglow time	Proc B Char Length (mm)
1	>10 mins	>10 mins	Specimen totally destroyed
2	>10 mins	>10 mins	Specimen totally destroyed
3	>10 mins	>10 mins	Specimen totally destroyed
Mean	**>10 mins**	**>10 mins**	

Observations:
Flame reached the upper and/or vertical edges on all specimens.
All specimens produced molten or flaming debris.
Filter paper ignited with all samples

Test Conditions: **Temperature:** 11.5°C **Relative Humidity:** 67% **Gas used:** Propane

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Sample Description: Green Synthetic Grass

Test Method	Result	Unit

AS/NZS 2111.5:1996
TEXTILE FLOOR COVERINGS – TESTS AND MEASUREMENTS
METHOD 5: DETERMINATION OF THICKNESS OF PILE ABOVE THE SUBSTRATE

Mean thickness unshorn	32.3	mm
Mean thickness shorn	2.4	mm
Mean pile thickness	29.9	mm

Test conditions: Area of Pressure Footer: 50cm^2
Pressure Applied: 1kPa

Approved by: **D.R. Carroll - Laboratory Manager**