

## Test Report

Report No: ASH18-024555-04

Issue Date: Jul 10 2018

Client name: Hanwei Artificial Grass (Changzhou) Co.,Ltd  
Client address: Rongxin keji Park, No.3 Wujin Avenue east  
Road, Wujin, Changzhou, Jiangsu, China  
Sample name: Artificial Grass  
Sample Batch No.: /  
Product Date: /  
Manufacturer: Hanwei Artificial Grass (Changzhou) Co.,Ltd  
Sample other information: Country of Origin: China Style No: All types

**Above information and sample(s) was/were submitted and certified by the client, SGS quoted the information with no responsibility as to the accuracy, adequacy and/or completeness.**

SGS Sample No.: ASH18-024555.001  
SGS reference No.: SHHL1805025598SD  
Date of sample received: May 30 2018  
Testing period: May 30 2018 ~ Jul 10 2018

### TEST(S) REQUESTED:

Selected test(s) as requested by applicant:  
Antimicrobial activity test

### TEST METHOD(S):

Please refer to the next page(s)

### TEST RESULT(S):

Please refer to the next page(s)

English shall prevail in this report.

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SGS Authorized Signature

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## Test Report

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### TEST METHOD(S):

ASTM G 21-15 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi

### TEST ORGANISM(S):

*Aspergillus brasiliensis*<sup>A</sup> ATCC 9642, *Penicillium funiculosum*<sup>B</sup> ATCC 11797,  
*Aureobasidium pullulans* ATCC 15233, *Chaetomium globosum* ATCC 6205,  
*Trichoderma virens*<sup>C</sup> ATCC 9645

### TEST RESULT(S):

Test Fungi	Concentration of spores (spores /mL)	Rating observed growth on specimens (after 28 days)
<i>Aspergillus brasiliensis</i> <sup>A</sup> ATCC 9642		
<i>Penicillium funiculosum</i> <sup>B</sup> ATCC 11797		
<i>Aureobasidium pullulans</i> ATCC 15233	1.0x10 <sup>6</sup>	0 Grade*
<i>Chaetomium globosum</i> ATCC 6205		
<i>Trichoderma virens</i> <sup>C</sup> ATCC 9645		

Note: According to ASTM G 21-15 Standard Practice for Determining Resistance of Synthetic Polymeric Materials to Fungi, observed fungi growth rating on the specimens include:

- 0 –None
- 1 –Traces of growth (less than 10%)
- 2 –Light growth (10 to 30%)
- 3 –Medium growth (30 to 60%)
- 4 –Heavy growth (60% to complete coverage)

Remark: History name of test organism

<sup>A</sup>Historically known as *A. niger*.

<sup>B</sup>Historically known as *P. pinophilum*.

<sup>C</sup>Historically known as *Gliocladium virens*.

\* The microscope(50 X) was used to confirm the observation.

Test the smooth side without words.

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## Test Report

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**SAMPLE DESCRIPTION:** sample in bag



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