

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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested, and for clients internal use only, not to the society has the proof function. This document cannot be used for publicity, without prior written approval of the SGS.



SGS Authorized Signature

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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^A ATCC 9642, *Penicillium funiculosum*^B ATCC 11797, *Aureobasidium pullulans* ATCC 15233, *Chaetomium globosum* ATCC 6205, *Trichoderma virens*^C ATCC 9645

TEST RESULT(S):

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

^AHistorically known as *A.niger*.

^BHistorically known as *P.pinophilum*.

^CHistorically known as *Gliocladium virens*.

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

Test the smooth side without words.

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SAMPLE DESCRIPTION: sample in bag

Test sample



*** End ***

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