



中国认可  
检测  
TESTING  
CNAS L0599

## Test Report

ASH20-066044-01

Date: 02 Nov 2020

Client Name:  
Client Address:

Sample Name: VINYL FLOORING  
Manufacturer: /  
Sample Batch No.: /  
Production Date: /

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 Reference No. : SHIN2010067224CM  
Date of Sample Received : 27 Oct 2020  
Testing Period : 27 Oct 2020 - 02 Nov 2020  
Test Requested : Selected test(s) as requested by client.  
Test Method : Please refer to next page(s).  
Test Result(s) : Please refer to next page(s).

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



scan to see the report



ASH20-066044-01

SGS Authorized Signature

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Page 1 of 3

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Documents.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing/inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center Agency and PECC Laboratory

3<sup>rd</sup> Building, No.889, Yishan Road, Shanghai, China 200233 t 400-691-0488 f (86-21) 6140 2547 www.sgsgroup.com.cn  
中国·上海·宜山路889号3号楼 邮编:200233 t 400-691-0488 f (86-21) 6140 2547 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

# Test Report

ASH20-066044-01

Date: 02 Nov 2020

Sample Description :

Specimen No.	SGS Sample ID	Description
1	ASH20-066044.001	sample in bag

**Test Result(s) :**

Test Requested : Test of antimicrobial activity

Test Method : ISO 22196:2011 Measurement of antibacterial activity on plastics and other non-porous surfaces

**ASH20-066044.001**

Test organism(s)	Escherichia coli ATCC 8739
Concentration of bacteria (cells/mL)	3.5x10 <sup>5</sup>
Volume of test inoculum (mL)	0.4
U <sub>0</sub>	3.95
U <sub>t</sub>	6.00
A <sub>t</sub>	3.90
B (cells/cm <sup>2</sup> )	1.0x10 <sup>6</sup>
C (cells/cm <sup>2</sup> )	8.0x10 <sup>3</sup>
R	2.1
*The antibacterial activity rate (%)	99.2

**Notes :**

- 1.The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 2.U<sub>0</sub>: the average of the common logarithm of the number of viable bacteria(cells/cm<sup>2</sup>) recovered from the untreated test specimens immediately after inoculation.
- 3.U<sub>t</sub>: the average of the common logarithm of the number of viable bacteria(cells/cm<sup>2</sup>) recovered from the untreated test specimens after 24 h.
- 4.A<sub>t</sub>: the average of the common logarithm of the number of viable bacteria(cells/cm<sup>2</sup>) recovered from the treated test specimens after 24 h.
- 5.R: the value of antimicrobial activity,R=U<sub>t</sub>-A<sub>t</sub>.
- 6.\* The calculation formula of the antibacterial activity rate is **【(B-C)/B】 \*100%**;  
B: arithmetic average of the numbers of bacteria obtained from control samples after 24 h incubation(cells/cm<sup>2</sup>);  
C: arithmetic average of the numbers of bacteria obtained from samples after 24 h incubation(cells/cm<sup>2</sup>).
- 7.Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.
- 8.Test the vertical stripe side.

SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Page 2 of 3

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)

3<sup>rd</sup> Building, No.889, Yishan Road, Shanghai, China 200233 t 400-691-0488 f (86-21) 6140 2547 www.sgsgroup.com.cn  
中国·上海·宜山路889号3号楼 邮编:200233 t 400-691-0488 f (86-21) 6140 2547 e [sgs.china@sgs.com](mailto:sgs.china@sgs.com)



## Test Report

ASH20-066044-01

Date: 02 Nov 2020

Sample photo:



SGS authenticate the photo on original report only

\*\*\* End \*\*\*



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Page 3 of 3

Unless otherwise agreed in writing, this document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request or accessible at <http://www.sgs.com/en/Terms-and-Conditions.aspx> and, for electronic format documents, subject to Terms and Conditions for Electronic Documents at <http://www.sgs.com/en/Terms-and-Conditions/Terms-e-Document.aspx>. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested.

**Attention: To check the authenticity of testing /inspection report & certificate, please contact us at telephone: (86-755) 8307 1443, or email: [CN.Doccheck@sgs.com](mailto:CN.Doccheck@sgs.com)**

3<sup>rd</sup> Building, No.889, Yishan Road, Shanghai, China 200233 t 400-691-0488 f (86-21) 6140 2547 www.sgsgroup.com.cn  
中国·上海·宜山路889号3号楼 邮编:200233 t 400-691-0488 f (86-21) 6140 2547 e sgs.china@sgs.com



SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.  
Testing Center Agriculture and Food Laboratory