FOSHAN IFOLRONG PLASTIC MATERIAL MANUFACTURE CO.,LTD.
NO.21-2(F3). AREA D.LUBAO PARK.SANSHUI CENTER TECHNOLOGY ZONE,FOSHAN CITY,GUANGDONG PROVINCE, CHINA

Sample Description	:	PVC HETEROGENEOUS FLOORING
Client Reference Information	:	WOLFLOR
Manufacturer	:	FOSHAN IFOLRONG PLASTIC MATERIAL MANUFACTURE CO.,LTD.

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

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SGS Ref No.	:	GZF23-017016-01
Sample Receiving Date	:	May 30, 2023
Test Performing Date	:	May 30, 2023 to Jun 07, 2023
Test Performed	:	Selected test(s) as requested by applicant
Test Result(s)	:	For further details, please refer to the following page(s)

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

Peter Zhao
Authorized Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Shunde Branch

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Sample Description :.

Specimen No..	SGS Sample ID..	Description..
1..	GZF23-017016.001	Sheet sample..

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

GZF23-017016.001

Test organism(s)	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (cells/mL)	4.2x10^5	4.1x10^5
Volume of test inoculum (mL)	0.4	0.4
U_0	3.99	3.98
Ut	5.72	5.60
At	5.00	5.10
B (cells/cm²)	5.3x10^5	4.0x10^5
C (cells/cm²)	1.0x10^5	1.3x10^5
R	0.7	0.5
*The antibacterial activity rate (%)	99.9	99.9

Notes :

1.The untreated test specimens is plastic film without antimicrobial activity, provided by SGS laboratory.
2.U_0: the average of the common logarithm of the number of viable bacteria(cells/cm²) recovered from the untreated test specimens immediately after inoculation.
3.Ut: the average of the common logarithm of the number of viable bacteria(cells/cm²) recovered from the untreated test specimens after 24 h.
4.At: the average of the common logarithm of the number of viable bacteria(cells/cm²) recovered from the treated test specimens after 24 h.
5.R: the value of antimicrobial activity,R=Ut-At.
6.* The calculation formula of the antibacterial activity rate is【(B-C)/B】*100%;
B: arithmetic average of the numbers of bacteria obtained from the untreated test specimens after 24 h incubation(cells/cm²);
C: arithmetic average of the numbers of bacteria obtained from the treated test specimens after 24 h incubation(cells/cm²).
7.Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

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