



Test Report

GZF20-014090-01

Date: 27 Jul 2020

Client Name: MAX Interactive Inc

Client Address: 17752 Mitchell N, Suite D, Irvine, CA 92614, USA

Sample Name: PET Protector material with antimicrobial additives

Manufacturer: /

Sample Batch No.: /

Production Date: 20200714

Sample other information: Same PET material is used for Shield Extreme-M , Shield Extreme -S, Shield Extreme X , Shield Case

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. : /

Date of Sample Received : 17 Jul 2020

Testing Period : 17 Jul 2020 - 27 Jul 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 publicity, without prior written approval of the SGS.



scan to see the report



GZF20-014090-01

SGS Authorized Signature

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

Page 1 of 3



SGS-CSTC Standards Technical Services Co., Ltd.
Guangzhou Branch Testing Laboratory and Food Laboratory

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

No. 198 Kezhu Road, Sciotech Park, Guangzhou Economic & Technology Development District, Guangzhou, China 510663 t 400 - 691 - 0488 f (86-20) 82075027 www.sgs.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t 400 - 691 - 0488 f (86-20) 82075027 e sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Test Report

GZF20-014090-01

Date: 27 Jul 2020

Sample Description :

Specimen No.	SGS Sample ID	Description
1	GZF20-014090.001	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

GZF20-014090.001

Test organism	Escherichia coli ATCC 8739	Staphylococcus aureus ATCC 6538P
Concentration of bacteria (CFU/mL)	5.5x10 ⁵	6.2x10 ⁵
Volume of test inoculum(mL)	0.2	0.2
U ₀	3.86	3.86
U _t	5.31	6.03
A _t	-0.20	-0.20
R	5.5	6.2
*The antibacterial activity rate(%)	>99.99	>99.99

Notes :

- 1.The control sample is plastic film without antimicrobial activity, provided by SGS laboratory.
- 2.U₀: the average of the common logarithm of the number of viable bacteria(CFU/cm²) recovered from the untreated test specimens immediately after inoculation.
- 3.U_t: the average of the common logarithm of the number of viable bacteria(CFU/cm²) recovered from the untreated test specimens after 24h.
- 4.A_t: the average of the common logarithm of the number of viable bacteria(CFU/cm²) recovered from the treated test specimens after 24h.
- 5.R: the value of antimicrobial activity, R=U_t-A_t.
- 6.* The calculation formula of the antibacterial activity rate is $[(B-C)/B] \times 100\%$;
B: arithmetic average of the numbers of bacteria obtained from control samples after 24h incubation(CFU/cm²);
C: arithmetic average of the numbers of bacteria obtained from samples after 24h incubation(CFU/cm²).

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

Page 2 of 3



Test Report

GZF20-014090-01

Date: 27 Jul 2020

7.Pre-treatment: The surface of test specimen was wiped with 70% ethanol, rinsed with sterile water and let it air-dry.

Sample photo:



SGS authenticate the photo on original report only

*** End ***



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

Page 3 of 3

