



中国认可
国际互认
检测
TESTING
CNAS L0095

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No. WTS2022-24662

检测报告

TEST REPORT

样品名称: (抑菌 TPU)
NAME OF SAMPLE eTPU-Antibacteria

委托单位: 深圳光华伟业股份有限公司
CLIENT Shenzhen Esun Industrial CO., Ltd.

检测类别: 委托检测
CLASSIFICATION OF TEST Commission Test

威凯检测技术有限公司

CVC Testing Technology Co., Ltd.

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| | |
|--|---|
| 样品名称：（抑菌 TPU） Sample name: eTPU-Antibacteria | 商 标：— Trade mark: — |
| 型号规格：— Type/Model: — | 样品等级：— Sample level: — |
| 委托单位：深圳光华伟业股份有限公司 Commissioned by: Shenzhen Esun Industrial CO., Ltd. | 地址：深圳市南山区粤兴二道 6 号武汉大学深圳产学研研究大楼 A403-I 及 A901 Commissioner address: Wuhan University Building A403-I and A901, No.6 Yuexing 2 Road, Nanshan District, Shenzhen, China |
| 制造商：孝感市易生新材料有限公司 Manufacturer : Xiaogan Esun New Material Co., Ltd. | 地址：孝感市孝南经济开发区 465 号 Commissioner address: No.465, Xiaonan Economic Development Zone, Xiaogan City |
| 生产厂：— Manufacturer: — | 地址：— Manufacturer Address:— |
| 样品数量：1 盒 Quantity of sample: 1box | 抽样人员：— Sampled by: — |
| 样品识别：— Sample identification:— | 抽样地点：— Sampling at(place) :— |
| 接样方式：邮寄 Means of receiving: posted | 抽样方式：— Means of sampling:— |
| 检测类别：委托检测 Classification of test: Commission Test | 抽样日期：— Sampling date:— |
| 接样日期：2022.11.07 Receiving date: November 07,2022 | 完成日期：2022.11.17 Completing date: November 17,2022 |
| 检测依据：GB/T 31402-2015 Tested according to: GB/T 31402-2015 | 检测项目：抗菌性能试验 Test items: Antibacterial performance test |
| <p>检测结论：</p> <p>受深圳光华伟业股份有限公司的委托，依据GB/T 31402-2015《塑料 塑料表面抗菌性能试验方法》对（抑菌TPU）样品进行抗菌性能试验项目的检测，检测结果见第4页。</p> <p>Test conclusion: Entrusted by Shenzhen Esun Industrial CO., Ltd., according to GB/T 31402-2015 <i>Plastics-Measurement of antibacterial activity on plastics surface measurement of antibacterial performance on eTPU-Antibacteria</i> .The results were presented on page 4.</p> <p>(Blank Below)</p> <p style="text-align: right;">检测单位盖章 Seal of CVC: 签发日期：2022 年 11 月 30 日 Date of issue: November 30,2022</p> | |

批 准：徐燕君

审 核：欧加勉

主 检：庾梓君

Approved by: Xu Yanjun

Reviewed by: Ou Jiamian

Tested by: Yu Zijun

Xu Yanjun

Ou Jiamian

Yu Zijun

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样品描述及说明:

Description and illustration of the sample:

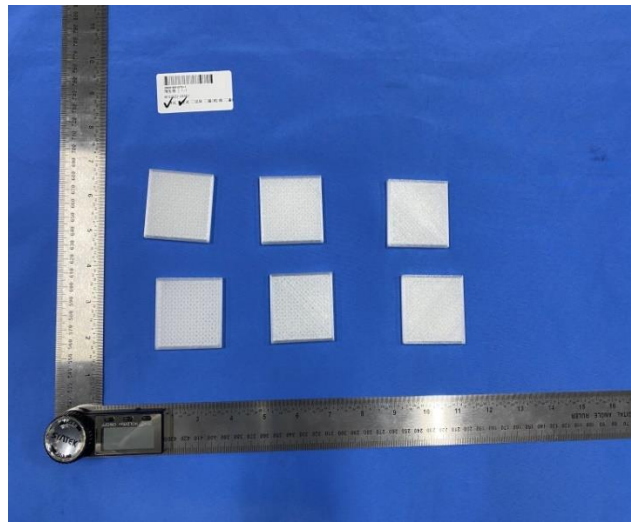


图 1：样品照片

Figure1: Sample photo

抽样程序的说明：—

Description of the sampling procedure: —

偏离标准方法的说明：—

Description of the deviation from the standard, if any: —

备注：本报告由中文和英文写成，如果两种版本有冲突，则以中文为准。

Remarks: This report is formulated both in Chinese and English, If there is any discrepancy, the Chinese version shall prevail.

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| 检测项目汇总 Summary of test items | | | | | |
|---------------------------------|--|---|--|---------------------------------------|----------------------------------|
| 样品名称 Sample name | 检测项目 Test Items | 试验菌种 Test Strains | 抗菌活性值 Antibacterial activity value | 抗菌率 Antibacterial activity rate | 项目明细 Project details |
| (抑菌 TPU) eTPU-Antibacteria | 抗菌性能试验 Antibacterial performance test | 金黄色葡萄球菌 <i>Staphylococcus aureus</i> | 6.0 | >99.9% | 见第 5 页 Presented on page 5 |
| | | 大肠埃希氏菌 <i>Escherichia coli</i> | 4.1 | >99.9% | |

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抗菌性能试验

Antibacterial performance test

检测方法: GB/T 31402-2015

Test Method: GB/T 31402-2015

测试菌种: 金黄色葡萄球菌 (ATCC 6538P)、大肠埃希氏菌 (ATCC 8739)

Test Strains: *Staphylococcus aureus* (ATCC 6538P); *Escherichia coli* (ATCC 8739)

检测结果:

Test results:

| 样品名称 Sample name | 试验菌种 Test Strains | 组别 Group | 接种后 24 小时的 平均活菌落 The number of bacterial colonies obtained after 24 hours of contact culture (CFU/ cm ²) | 抗菌率 Antibacteria l activity rate (%) | 抗菌活性值 Antibacteria l activity value |
|-------------------------------|---|----------------------|--|--|--|
| (抑菌 TPU) eTPU-Antibacteria | 金黄色葡萄球菌 <i>Staphylococcus aureus</i> (ATCC 6538P) | 试验组 Test group | <0.63 | >99.9 | 6.0 |
| | | 对照组 Control group | 5.8×10^5 | | |
| | 大肠埃希氏菌 <i>Escherichia coli</i> (ATCC 8739) | 试验组 Test group | 5.1×10^1 | >99.9 | 4.1 |
| | | 对照组 Control group | 6.1×10^5 | | |

注 意 事 项

Important

1. 报告无检测单位印章无效;

The test report is invalid without the official stamp of CVC;

2. 未经本实验室书面同意，不得部分地复制本报告;

Any part photocopies of the test report are forbidden without the written permission from CVC;

3. 报告无主检、审核、批准人签名无效;

The test report is invalid without the signatures of Approval and Reviewer;

4. 报告涂改无效;

The test report is invalid if altered;

5. 对检测报告若有异议，请于收到报告之日起十五天内向检测单位提出;

Objections to the test report must be submitted to CVC within 15 days;

6. 一般情况，委托检测结果仅对所检测样品有效;

Generally, commission test is responsible for the tested samples only;

7. 检测结果中“—”或“N”表示“不适用”，“/”表示“未检测”，“P”

表示“合格或通过”，“F”表示“不通过”或“不合格”。

As for the test result, “—” or “N” means “not applicable”, “/” means “not test”, “P” means “pass” and “F” means “fail”.

****报告中未加 CMA 标志时，检测数据和结果仅供科研、教学或内部质量控制之用。****

****The test data and test results given in this test report should only be used for purposes of scientific research, teaching and internal quality control when the CMA symbol is not presented.****

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