

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 1 of 14

Xiamen Boshun Cutlery Co., Ltd

厦门搏顺餐具有限公司

No. 256 Tongan Park, Tongan Industrial Centralized Area, Xiamen City China 361100

厦门市同安工业集中区同安园 256 号

Report on the submitted samples said to be:

委托检测的样品及申请者对样品的说明如下:

|                       |   |                                    |
|-----------------------|---|------------------------------------|
| Sample Description    | : | wheat straw bowl                   |
| 样品描述                  | : | 小麦秸秆碗                              |
| Sample Description    | : | wheat straw 70% + plastic PP 30%   |
| 样品描述                  | : | 小麦秸秆 70%+30%PP                     |
| Sample Receiving Date | : | May 06, 2024                       |
| 收样日期                  | : | 2024 年 05 月 06 日                   |
| Testing Period        | : | From May 06, 2024 to May 20, 2024  |
| 测试周期                  | : | 2024 年 05 月 06 日至 2024 年 05 月 20 日 |
| Results               | : | Please refer to next page(s).      |
| 测试结果                  | : | 参见后续页                              |

Signed for and on behalf of BACL (BACL 授权签名)



Checked by Mila 潘惠珍  
审核:

Mila Pan-潘惠珍

Approved by Fedor 张成  
核准:

Fedor Zhang-张成

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 2 of 14

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**Summary of Test Results:**

测试结果概要:

| <b>TEST REQUEST</b><br><b>测试要求</b> |                                                                                                                                                                                   | <b>CONCLUSION</b><br><b>结论</b> |
|------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|
| A                                  | As specified by client, refer to GB 4806.7-2023 National Food Safety Standards Plastic Materials and Products for Food Contact<br>按照客户要求, 参考 GB 4806.7-2023 食品安全国家标准 食品接触用塑料材料及制品 |                                |
| A.1                                | Sensory Requirement<br>感官要求                                                                                                                                                       | Pass<br>合格                     |
| A.2                                | Overall Migration<br>总迁移量                                                                                                                                                         | Pass<br>合格                     |
| A.3                                | Consumption of Potassium Permanganate<br>高锰酸钾消耗量                                                                                                                                  | Pass<br>合格                     |
| A.4                                | Heavy Metal(as Pb)<br>重金属 (以铅计)                                                                                                                                                   | Pass<br>合格                     |
| A.5                                | Specific Migration of Primary Aromatic Amines Content<br>芳香族伯胺迁移量                                                                                                                 | Pass<br>合格                     |
| A.6                                | Decolorization test<br>脱色试验                                                                                                                                                       | Pass<br>合格                     |
| A.7                                | Specific migration of Formaldehyde<br>甲醛的特定迁移                                                                                                                                     | Pass<br>合格                     |

Pass = Meet the Requirement of Client

合格 = 符合客户要求

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## TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 3 of 14

Results:  
测试结果:

Tested part(s):  
测试部位:

Sample ID  
样品编号

Description  
描述

Material 材料  
(claimed by client  
按客户声称)

1

Beige plastic bowl  
米色塑料碗

小麦秸秆+PP

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# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 4 of 14

**A. As specified by client, refer to GB 4806.7-2023 National Food Safety Standards Plastic Materials and Products for Food Contact**

**按照客户要求，参考 GB 4806.7-2023 食品安全国家标准 食品接触用塑料材料及制品**

## **A.1 Sensory Requirement**

### **感官要求**

Test method: With reference to GB 4806.7-2023

测试方法：参照 GB 4806.7-2023

| Item<br>测试项目     | Results<br>测试结果                                                                                                                                     | Requirement<br>要求                                                                                                                                   |
|------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------|
|                  | 1                                                                                                                                                   |                                                                                                                                                     |
| Appearance<br>外观 | Normal color, no odor, unclean things, etc<br>色泽正常，无异臭、不洁物等                                                                                         | Normal color, no odor, unclean things, etc<br>色泽正常，无异臭、不洁物等                                                                                         |
| Simulant<br>浸泡液  | The immersion simulant obtained by the migration test has no sensory fission such as turbidity, precipitation and odor<br>迁移试验所得浸泡液无混浊、沉淀、异臭等感官性的劣变 | The immersion simulant obtained by the migration test has no sensory fission such as turbidity, precipitation and odor<br>迁移试验所得浸泡液无混浊、沉淀、异臭等感官性的劣变 |
| Conclusion<br>结论 | Pass<br>合格                                                                                                                                          | /                                                                                                                                                   |

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 5 of 14

## A.2 Overall Migration

### 总迁移量

Test method: With reference to GB 31604.8-2021&GB 31604.1-2023&GB 5009.156-2016

测试方法: 参照 GB 31604.8-2021&GB 31604.1-2023&GB 5009.156-2016

| Item<br>测试项目                                           | Unit<br>单位         | RL  | Results<br>测试结果 |      |      | Limit<br>限值 |
|--------------------------------------------------------|--------------------|-----|-----------------|------|------|-------------|
|                                                        |                    |     | 1               |      |      |             |
|                                                        |                    |     | 1st             | 2nd  | 3rd  |             |
| 4% acetic acid, 100℃, 1hr<br>4%乙酸(v/v), 100℃, 1 小时     | mg/dm <sup>2</sup> | 3.0 | 16.7            | 8.3  | 6.8  | 10          |
| 50% ethyl alcohol, 100℃, 1hr<br>50%乙醇(v/v), 100℃, 1 小时 | mg/dm <sup>2</sup> | 3.0 | N.D.            | N.D. | N.D. | 10          |
| Isooctane, 60℃, 1hr<br>异辛烷, 60℃, 1 小时                  | mg/dm <sup>2</sup> | 3.0 | N.D.            | N.D. | N.D. | 10          |
| Stability<br>稳定性                                       | /                  | /   | Yes<br>是        |      |      | /           |
| Conclusion<br>结论                                       | /                  | /   | Pass<br>合格      |      |      | /           |

Note:

注释:

- N.D. = Not Detected or less than RL  
N.D. = 未检出或低于检出限
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样品照片见附录。

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# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 6 of 14

## A.3 Consumption of Potassium Permanganate

### 高锰酸钾消耗量

Test method: With reference to GB 31604.2-2016&GB 31604.1-2023&GB 5009.156-2016

测试方法: 参照 GB 31604.2-2016&GB 31604.1-2023&GB 5009.156-2016

| Item<br>测试项目                                     | Test Condition<br>检测条件             | Unit<br>单位 | RL | Results<br>测试结果 | Limit<br>限值 |
|--------------------------------------------------|------------------------------------|------------|----|-----------------|-------------|
|                                                  |                                    |            |    | 1               |             |
| Consumption of Potassium Permanganate<br>高锰酸钾消耗量 | Water, 60°C, 2hrs<br>水, 60°C, 2 小时 | mg/kg      | 1  | 2.9             | 10          |
| Conclusion<br>结论                                 | /                                  | /          | /  | Pass<br>合格      | /           |

Note:

注释:

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# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 7 of 14

## A.4 Heavy Metal(as Pb)

### 重金属(以铅计)

Test method: With reference to GB 31604.1-2023&GB 5009.156-2016, GB 31604.9-2016 the first method

测试方法: 参照 GB 31604.1-2023&GB 5009.156-2016, GB 31604.9-2016 第一法

| Item<br>测试项目                    | Test Condition<br>检测条件                       | Unit<br>单位 | RL  | Results<br>测试结果 | Limit<br>限值 |
|---------------------------------|----------------------------------------------|------------|-----|-----------------|-------------|
|                                 |                                              |            |     | 1               |             |
| Heavy Metal(as Pb)<br>重金属 (以铅计) | 4% acetic acid, 60℃, 2hrs<br>4%乙酸, 60℃, 2 小时 | mg/kg      | 1.0 | N.D.            | 1.0         |
| Conclusion<br>结论                | /                                            | /          | /   | Pass<br>合格      | /           |

Note:

注释:

- N.D. = Not Detected or less than RL  
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\*\*\*\*\*

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 8 of 14

## A.5 Specific Migration of Primary Aromatic Amines (PAAs) Content

芳香族伯胺的迁移量

Test method: With reference to GB31604.52-2021&GB31604.1-2023& GB5009.156-2016

测试方法 参照 GB31604.52-2021&GB31604.1-2023& GB5009.156-2016

Test method: 4%(w/v) acetic acid, 100°C, 24 hours

检测条件: 4%乙酸(w/v), 100°C, 24 小时

| Item<br>测试项目                               | CAS No.<br>CAS 号 | Unit<br>单位 | RL   | Results 结果 |      |      | Limit<br>限值 |
|--------------------------------------------|------------------|------------|------|------------|------|------|-------------|
|                                            |                  |            |      | 1          |      |      |             |
|                                            |                  |            |      | 1st        | 2nd  | 3rd  |             |
| p-Phenylenediamine<br>对苯二胺                 | 106-50-3         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| m-Phenylendiamine<br>间苯二胺                  | 108-45-2         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| Aniline<br>苯胺                              | 62-53-3          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,6-Xylidine<br>2,6-二甲基苯胺                  | 87-62-7          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,4'-methylenedianiline<br>2,4'-二氨基二苯甲烷    | 1208-52-2        | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,4-Xylidine<br>2,4-二甲基苯胺                  | 95-68-1          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,2'-methylenedianiline<br>2,2'-二氨基二苯甲烷    | 6582-52-1        | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,4-Toluylenediamine<br>2,4-二氨基甲苯          | 95-80-7          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 4,4'-Oxydianiline<br>4,4'-二氨基二苯醚           | 101-80-4         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| Benzidine<br>联苯胺                           | 92-87-5          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 4,4'Diaminodiphenylmethane<br>4,4'-二氨基二苯甲烷 | 101-77-9         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| o-Anisidine<br>邻甲氧基苯胺                      | 90-04-0          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 9 of 14

| Item<br>测试项目                                                       | CAS No.<br>CAS 号 | Unit<br>单位 | RL   | Results 结果 |      |      | Limit<br>限值 |
|--------------------------------------------------------------------|------------------|------------|------|------------|------|------|-------------|
|                                                                    |                  |            |      | 1          |      |      |             |
|                                                                    |                  |            |      | 1st        | 2nd  | 3rd  |             |
| o-Toluidine<br>邻甲苯胺                                                | 95-53-4          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 3,3'-Dimethyl-4,4'-diaminodiphenylmethane<br>3,3'-二甲基-4,4'-二氨基二苯甲烷 | 838-88-0         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 3,3'-Dimethoxybenzidine<br>3,3'-二甲氧基联苯胺                            | 119-90-4         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 3,3'-Dimethylbenzidine<br>3,3'-二甲基联苯胺                              | 119-93-7         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,4-Diaminoanisole<br>2,4-二氨基苯甲醚                                   | 615-05-4         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| p-Cresidine<br>3-氨基对甲苯甲醚                                           | 120-71-8         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2,4,5-Trimethylaniline<br>2,4,5-三甲基苯胺                              | 137-17-7         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 4,4'-Thiodianiline<br>4,4'-二氨基二苯硫醚                                 | 139-65-1         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| p-Chloroaniline<br>对氯苯胺                                            | 106-47-8         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2-Naphthylamine<br>2-萘胺                                            | 91-59-8          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 4-Aminodiphenyl<br>4-氨基联苯                                          | 92-67-1          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 4-Chloro-o-Toluidine<br>4-氯邻甲苯胺                                    | 95-69-2          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 2-Amino-4-Nitrotoluene<br>2-氨基-4-硝基甲苯                              | 99-55-8          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 3,3'-Dichlorobenzidine<br>3,3'-二氯联苯胺                               | 91-94-1          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 10 of 14

| Item<br>测试项目                                                  | CAS No.<br>CAS 号 | Unit<br>单位 | RL   | Results 结果 |      |      | Limit<br>限值 |
|---------------------------------------------------------------|------------------|------------|------|------------|------|------|-------------|
|                                                               |                  |            |      | 1          |      |      |             |
|                                                               |                  |            |      | 1st        | 2nd  | 3rd  |             |
| 4-Aminoazobenzene<br>对氨基偶氮苯                                   | 60-09-3          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| 4,4'-Methylene-Bis(2-Chloroanilin<br>e)<br>4,4'-次甲基-双-(2-氯苯胺) | 101-14-4         | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| o-Aminoazotoluene<br>邻氨基偶氮甲基                                  | 97-56-3          | mg/kg      | 0.01 | N.D.       | N.D. | N.D. | N.D.        |
| Stability<br>稳定性                                              | /                | /          | /    | Yes<br>是   |      |      | /           |
| Conclusion<br>结论                                              | /                | /          | /    | Pass<br>合格 |      |      | /           |

Note:

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\*\*\*\*\*

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 11 of 14

## A.6 Decolorization test

### 脱色试验

Test method: With reference to GB 31604.7-2023&GB 31604.1-2023&GB 5009.156-2016

测试方法: 参照 GB 31604.7-2023&GB 31604.1-2023&GB 5009.156-2016

| Item<br>测试项目     | Test Condition<br>检测条件                                                                                                                         | Results<br>测试结果 | Requirement<br>要求 |
|------------------|------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|-------------------|
|                  |                                                                                                                                                | 1               |                   |
| wipe<br>擦拭       | Wipe the 2cm×4cm sample vigorously 100 times with a absorbent cotton soaked with vegetable oil<br>用沾有植物油的脱脂棉在 2cm×4cm 样品上面用力擦拭 100 次           | Negative<br>阴性  | Negative<br>阴性    |
|                  | Wipe the 2cm×4cm sample vigorously 100 times with a absorbent cotton soaked with absolute ethyl alcohol<br>用沾有无水乙醇的脱脂棉在 2cm×4cm 样品上面用力擦拭 100 次 | Negative<br>阴性  | Negative<br>阴性    |
| Stimulant<br>浸泡液 | Immersion simulant obtained from migration test<br>迁移试验所得浸泡液<br>4%(w/v) acetic acid<br>4%乙酸(w/v)                                               | Negative<br>阴性  | Negative<br>阴性    |
| Conclusion<br>结论 | /                                                                                                                                              | Pass<br>合格      | /                 |

Note:

注释:

- Photo appendix is included  
样品照片见附录。

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 12 of 14

## A.7 Specific migration of Formaldehyde

### 甲醛的特定迁移

Test method: With reference to GB31604.48-2016&GB31604.1-2023& GB5009.156-2016

测试方法 参照 GB31604.48-2016&GB31604.1-2023& GB5009.156-2016

Test method: 4%(w/v) acetic acid, 100°C, 24 hours

检测条件: 4%乙酸(w/v), 100°C, 24 小时

| Item<br>测试项目                                  | Unit<br>单位 | RL  | Results 结果 |      |      | Limit<br>限值 |
|-----------------------------------------------|------------|-----|------------|------|------|-------------|
|                                               |            |     | 1          |      |      |             |
|                                               |            |     | 1st        | 2nd  | 3rd  |             |
| Specific migration of formaldehyde<br>甲醛的特定迁移 | mg/kg      | 3.0 | N.D.       | N.D. | N.D. | 15          |
| Stability<br>稳定性                              | /          | /   | YES<br>是   |      |      | /           |
| Conclusion<br>结论                              | /          | /   | Pass<br>合格 |      |      | /           |

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\*\*\*\*\*

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 13 of 14

## Appendix 附录

Photograph of Sample  
样品照片



BACL authenticate the photo on original report only  
此图片仅限于随 BACL 正本报告使用

# TEST REPORT

REPORT No.: 2406S32968A

Date: May 20, 2024

Page 14 of 14

## Statement:

### 声明:

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2. Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 30 days only.  
除非另有声明，本报告中测试结果仅与被测样品相关。测试样品默认保存 30 天。
3. This report is valid only with a valid digital signature. The digital signature may be available only under the Adobe software above version 7.0.  
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除非申请商要求或产品法规另有规定，否则本报告判定规则不考虑不确定度。
5. The information which provided by the applicant, such as sample description, sample name, material component, style/item No. , P.O. No. , manufacturer, age phase, the laboratory is not responsible for its authenticity and this information can affect the validity of the result in the test report.  
本报告中申请商提供的信息，如样品描述， 样品名称，材料成分，型号，订单号，制造商，年龄段，可能和报告结果的有效性相关，本实验室不对其真实性负责。
6. The test samples were in good condition before testing.  
在进行测试前，测试样品已确认状态完好。
7. The extended uncertainty given in this report is obtained by combining the standard uncertainty times the coverage factor K with the 95% confidence interval.  
本报告给出的扩展不确定度是由合成标准不确定度乘以包含概率约为 95%时对应的包含因子 k 得到的。
8. 本报告中的数据结果用于学习、研究、内部质量控制、产品研发、科研，教学等目的。

\*\*\* End of Report \*\*\*

\*\*\* 报告结束 \*\*\*

Photograph of Sample (For Reference)

