

# TEST REPORT

REPORT No.: DG6201208-26465A

Date: December 16, 2020

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**Shenzhen BangXing Rubber Technology Co.,Ltd**

深圳市邦兴橡塑五金科技有限公司

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深圳市龙岗区吓坑二路 56 号和畅兴科工业园 C2 栋 3 楼

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 Name : Silicone spoon & fork, Silicone bowl, Silicone cup with straw, Silicone snack cup  
样品名称 : 硅胶勺子&叉子, 硅胶碗, 硅胶带吸管杯子, 硅胶双耳环  
Country of Origin : Shenzhen  
原产地  
Test Age Grade : 1+  
测试年龄  
Sample Receiving Date : December 8, 2020  
收样日期 : 2020 年 12 月 8 日  
Testing Period : From December 8, 2020 to December 16, 2020  
测试周期 : 2020 年 12 月 8 日至 2020 年 12 月 16 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 审核:

*Chevy Feng*

Chevy Feng-冯伟环

Approved by 核准:

*Bensen Huang*

Bensen Huang-黄雁

*Jesse Shang*

Jesse Shang-商水平



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## Summary of Test Results:

测试结果概要:

### TEST REQUEST

### CONCLUSION

#### 测试要求

#### 结论

#### Part A

#### A 部分

- 1. CPSC Regulation  
美国消费品安全委员会法规
  - 1.1 Safety aspects related to Mechanical and physical properties  
安全方面的机械及物理性能
  - 1.2 Flammability Test  
燃烧测试

Pass  
合格  
Pass  
合格

#### Part B

#### B 部分

- 1. FDA food Contact Article test: in accordance with 21 CFR 177.2600  
美国食品和药物管理局(FDA)21 CFR 177.2600

Pass  
合格

#### Part C

#### C 部分

- 1. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101(a) for total lead content in substrate  
美国《2008 消费品安全改进法案》(H.R. 4040)第 1 章,第 101 节(a)-基材中的铅含量
- 2. Consumer Product Safety Commission 16 CFR Part 1307:Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates  
美国消费品安全委员会(CPSC)16 CFR 1307:限制玩具和儿童护理用品中特定邻苯二甲酸盐的规则

Pass  
合格  
Pass  
合格

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**Results:**  
**测试结果:**

Tested part(s): (only for A Test Item(s))  
测试部位: (仅针对 A 部分测试项目)

- (1) Silicone spoon & fork 硅胶勺子&叉子
- (2) Silicone bowl 硅胶碗
- (3) Silicone cup with straw 硅胶带吸管杯子
- (4) Silicone snack cup 硅胶双耳杯

**1.CPSC Regulation**  
**美国消费品安全委员会法规**

**1.1 Safety aspects related to Mechanical and physical properties**  
**安全方面的机械及物理性能**

(1)/(2)/(3)/(4)

Testing Parameters 测试参数	Test Methods 测试方法	Requirement 要求	Result 结果
Sharp Points 尖点	CPSC 16 CFR 1500.48	Technical requirements for determining a sharp point in toys and other articles intended for use by children under 8 years of age. 适用于 8 岁以下儿童以及儿童护理产品可接触性尖端的技术要求	Pass 合格
Sharp Edges 利边	CPSC 16 CFR 1500.49	Technical requirements for determining a sharp metal or glass edge in toys and other articles intended for use by children under 8 years of age. 适用于 8 岁以下儿童以及儿童护理产品可接触性锐边的技术要求	Pass 合格
Small Parts 小部件	CPSC 16 CFR 1501	Method for identifying toys and other articles intended for use by children under 3 years of age which present choking, aspiration, or ingestion hazards because of small parts. 对三岁以下儿童使用, 因小部件可能导致窒息、呼吸或吞食等危险的玩具和其他物品的鉴别方法	Pass 合格

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Use and abuse testing (16 CFR 1500.50-53):

正常使用以及滥用测试(16 CFR 1500.50-53):

<u>Applicable section</u> 适用条款	<u>Description</u> 描述	<u>Test Condition</u> 测试条件
16 CFR 1500.50	Normal use testing 正常使用测试	
16 CFR 1500.50	Abuse testing 滥用测试	
16 CFR 1500.51	Impact test 冲击测试	10 drops at 4½ ft. 10次, 高度 4½ ft.
16 CFR 1500.53	Torque test 扭力测试	4 in.-lbf
16 CFR 1500.53	Tension test 拉力测试	15 lbf
16 CFR 1500.53	Compression test 压力测试	NA 不适用
16 CFR 1500.53	Bite test 咬力测试	NA 不适用
16 CFR 1500.53	Flexure test 挠曲测试	NA 不适用

Note:

注释:

1. NA = Not Applicable  
不适用

## 1.2. Flammability Test on Solid 固体燃烧测试

Flammability test of material  
材料的易燃性测试

Method used: FHSA 16 CFR 1500.44: Method for determining extremely flammable and flammable solids.  
测试方法: FHSA 16 CFR 1500.44: 测定极易燃易燃固体的方法

<u>Sample</u> 样品	<u>Burn rate (in/sec.)</u> 燃烧速度(in/sec.)	<u>Result</u> 结论
(1)/(2)/(3)/(4)	DNI	<b>Pass</b> 合格

Note: In accordance with the FHSA 16 CFR 1500.3 (c) (6) (vi), the burning rate should not be greater than 0.1 inch per second.

根据 FHSA 16 CFR 1500.3 (c) (6) (vi), 燃烧速度不超过 0.1in/s

DNI = Did Not Ignited

IBE = Ignite But Self-Extinguished

DNI = 不燃

IBE = 点燃但自熄



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Tested part(s): (only for B Test Item(s))

测试部位: (仅针对 B 部分测试项目)

- (1) Green silicone(bowl) 绿色硅胶(碗)
- (2) Green silicone(snack cup) 绿色硅胶(双耳杯)

**1、FDA food Contact Article test: in accordance with 21 CFR 177.2600**

**美国食品和药物管理局 (FDA) 21 CFR 177.2600**

Test method: With reference to FDA 21 CFR 177. 2600, rubber articles intended for repeated use

测试方法: 参考 US FDA 21 CFR 177.2600,重复使用的橡胶材料

Test Item 项目	Test Condition 测试条件	Unit 单位	MDL	Result 结果		Limit 限值
				(1)	(2)	
Distilled water 蒸馏水	Reflux temperature for first 7 hours 回流, 前 7 小时	mg/inch <sup>2</sup>	0.2	N.D.	N.D.	20
	Reflux temperature for succeeding 2 hours 回流, 后 2 小时	mg/inch <sup>2</sup>	0.2	N.D.	N.D.	1
Conclusion 结论	/	/	/	Pass 合格	Pass 合格	/

Note:

注释:

- N.D. = Not Detected or less than MDL  
N.D. = 未检出或低于检出限
- MDL = Method Detection Limit  
MDL = 方法检出限
- Photo appendix is included.  
样品照片见附录

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Tested part(s): (only for Part C Test Item(s))  
测试部位: (仅针对 C 部分测试项目)

- (1) Green silicone rubber(spoon/fork/bowl/cup/cup lid/straw/snack cup/heat preservation pot)  
绿色硅胶-勺子/叉子/碗/杯子/杯盖/吸管/双耳杯/保温锅

**1. Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101 for total lead content**  
**美国《2008 消费品安全改进法案》(H.R. 4040)第 1 章,第 101 节-铅含量**

**Total Lead Content (In substrates) 基材中的铅含量**

Test method: As per CPSC-CH-E1002-08.3, analysis was performed by Atomic Absorption Spectrometry (AAS).  
测试方法: 参照 CPSC-CH-E1002-08.3, 采用原子吸收光谱仪 (AAS) 分析。

Item 项目	Unit 单位	MDL	Results 测试结果	Limit 限值
			(1)	
Lead (Pb) 铅(Pb)	mg/kg	10	15	100
<b>Conclusion 结论</b>	/	/	<b>Pass 合格</b>	/

Note:  
注释:

- N.D. = Not Detected or less than MDL  
N.D. = 未检出或低于检出限
- MDL = Method Detection Limit  
MDL = 方法检出限
- Photo is included.  
附样品照片

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**2. Consumer Product Safety Commission 16 CFR Part 1307: Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates**

**美国消费品安全委员会(CPSC)16 CFR 1307:限制玩具和儿童护理用品中特定邻苯二甲酸盐的规则**

Test method: As per CPSC-CH-C1001-09.4, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

测试方法: 参照 CPSC-CH-C1001-09.4,溶剂萃取方法,用气相色谱质谱联用仪(GC-MS)测定。

Item 项目	CAS No.	Unit 单位	MDL	Results 测试结果	Limit 限值
				(1)	
Dibutyl Phthalate (DBP) 邻苯二甲酸二丁酯 (DBP)	84-74-2	mg/kg	30	N.D.	1000
Benzylbutyl Phthalate (BBP) 邻苯二甲酸丁苄酯 (BBP)	85-68-7	mg/kg	30	N.D.	1000
Bis-(2-ethylhexyl) Phthalate (DEHP) 邻苯二甲酸二(2-乙基己基酯) (DEHP)	117-81-7	mg/kg	30	N.D.	1000
Diisononyl Phthalate (DINP) 邻苯二甲酸二异壬酯 (DINP)	28553-12-0/ 68515-48-0	mg/kg	100	N.D.	1000
Diisobutyl phthalate (DIBP) 邻苯二甲酸二异丁酯 (DIBP)	84-69-5	mg/kg	30	N.D.	1000
Di-n-pentyl phthalate (DPENP) 邻苯二甲酸二戊酯 (DPENP)	131-18-0	mg/kg	30	N.D.	1000
Di-n-hexyl phthalate (DHEXP/DnHP) 邻苯二甲酸二己基酯(DHEXP/DnHP)	84-75-3	mg/kg	30	N.D.	1000
Dicyclohexyl phthalate (DCHP) 邻苯二甲酸二环己酯(DCHP)	84-61-7	mg/kg	30	N.D.	1000
<b>Conclusion</b> 结论	/	/	/	<b>Pass</b> 合格	/

Note:

注释:

- N.D. = Not Detected or less than MDL  
N.D. = 未检出或低于检出限
- MDL = Method Detection Limit  
MDL = 方法检出限
- 0.1% = 1000mg/kg, mg/kg = ppm
- Photo is included.  
附样品照片

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Photograph of Sample(for part A & C Test)  
样品照片 (供 A & C 部分测试)



Photograph of Sample(for part B Test)  
样品照片 (供 B 部分测试)



BACL authenticate the photo on original report only

此图片仅限于随 BACL 正本报告使用

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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 \*\*\*  
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