

# Test Report

No. ES170908012A001

SHENZHEN KINGFAR SUCTIONCUPS CO., LTD.

深圳市金翼吸盘用品有限公司

NO 23, RONGFU RD, GUANLAN, LONGHUA, SHENZHEN CITY, GUANGDONG, CHINA

广东省深圳市龙华新区观兰街道荣福路23号

(The Submitted Sample Said To Be)

样品信息描述

Sample Name : PVC transparent grains

样品名称 : PVC 透明颗粒

Sample Received Date : Sep 08, 2017

样品接收日期 : 2017.09.08

Testing Completed Date : Sep 18, 2017

测试完成日期 : 2017.09.18

Test Requested : 1. As requested by client, according to the directive 2011/65/EU (RoHS) and its amended directives, to determine  
测试要求

根据客户要求, 依据欧盟指令 2011/65/EU (RoHS), 检测以下项目:

1) the content of Lead, Cadmium and Mercury in the submitted sample;  
样品中的铅, 镉和汞的含量;

2) the content of Hexavalent Chromium in the submitted sample;  
样品中的六价铬的含量;

3) the content of PBBs (polybrominated biphenyls) and PBDEs (Polybrominated diphenyl-ethers) in the submitted sample.  
样品中的多溴联苯以及多溴联苯醚的含量。

2. As requested by client, according to the specification from paragraph 10 of Directive 2011/65/EU, for taking into account Annexes XIV and XVII of the REACH Regulation (EC) NO.1907/2006, to determine the contents of the regulated phthalate in the submitted sample(DEHP,DBP,BBP).

根据客户要求, 依据欧盟指令 2011/65/EU 第 10段说明, 参考 REACH法规附件 14及附件 17, 检测所提交样品中被管控的邻苯二甲酸酯的含量(DEHP,DBP,BBP)。

3. As requested by client, according to the specification from paragraph 10 of Directive 2011/65/EU, for taking into account Annexes XIV and XVII of the REACH Regulation (EC) NO.1907/2006, to determine the 1,2,5,6,9,10-Hexabromocyclododecane(HBCDD) contents in the submitted sample.

根据客户要求, 依据欧盟指令 2011/65/EU 第 10段说明, 参考 REACH法规附件 14及附件 17, 检测所提交样品中六溴环十二烷(HBCDD)的含量。

Test Results : Please refer to next page (s).

测试结果 请参看随后页面。

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Executive Summary:

执行测试总结:

STANDARD 标准	CONCLUSION 结论
1. Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment. 欧洲议会及理事会于 2011 年 6 月 8 日决定的关于在电子电器产品中限制使用某些有害物质的指令 2011/65/EU	PASS 合格
2. The test results of the homogenous materials in the submitted sample comply with the requirements of Phthalates Requirement for taking into account Annexes XIV and XVII of the REACH Regulation-DEHP, DBP, BBP(client's requirement) 邻苯二甲酸酯要求-参考 REACH 法规附件 14 及附件 17-DEHP, DBP, BBP (客户要求)	PASS 合格
3. The test results of the homogenous materials in the submitted sample comply with the requirements of HBCDD Requirement for taking into account Annexes XIV and XVII of the REACH Regulation(client's requirement) HBCDD 要求-参考 REACH 法规附件 14 及附件 17 (客户要求)	PASS 合格

Signed for and on behalf of  
Shenzhen EMTEK Co., Ltd.



Manager  
Sep 18, 2016

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## TEST RESULTS:

### 测试结果:

#### 1. Test Method :

##### 测试方法:

- 1) to refer to IEC 62321-5: 2013, determine the Lead, Cadmium content by ICP-OES.  
参照 IEC 62321-5: 2013, 用 ICP-OES测定铅、镉的含量。
- 2) to refer to IEC 62321-4: 2013, determine the Mercury content by ICP-OES.  
参照 IEC 62321-4: 2013, 用 ICP-OES测定汞的含量。
- 3) to refer to IEC 62321: 2008, determine the Hexavalent Chromium content by UV-VIS.  
参照 IEC 62321: 2008, 用 UV-VIS测定六价铬的含量。
- 4) to refer to IEC 62321: 2008, determine the Polybrominated Biphenyls and Polybrominated Diphenyl Ethers by GC-MS.  
参照 IEC 62321: 2008, 用 GC-MS测定多溴联苯和多溴联苯醚的含量。

Analyte 被分析物	Test Result (mg/kg) 测试结果	MDL (mg/kg)	Law Limit 法规限值 (mg/kg)
	Transparent soft plastic 透明软塑料		
Lead (Pb) 铅 (Pb)	ND	2	1000
Cadmium (Cd) 镉 (Cd)	ND	2	100
Mercury (Hg) 汞 (Hg)	ND	2	1000
Hexavalent Chromium (Cr <sup>6+</sup> ) 六价铬 (Cr <sup>6+</sup> )	ND	2	1000

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**TEST RESULTS:**

**测试结果:**

Analyte 被分析物	Test Result (mg/kg) 测试结果	MDL (mg/kg)	Law Limit 法规限值 (mg/kg)
	Transparent soft plastic 透明软塑料		
Polybrominated Biphenyls (Mono – Deca) (PBBs) 多溴联苯 (1 – 10) (PBBs)	< 50	--	1000
Monobromobiphenyl单溴联苯	ND	5	--
Dibromobiphenyl二溴联苯	ND	5	--
Tribromobiphenyl三溴联苯	ND	5	--
Tetrabromobiphenyl四溴联苯	ND	5	--
Pentabromobiphenyl五溴联苯	ND	5	--
Hexabromobiphenyl六溴联苯	ND	5	--
Heptabromobiphenyl七溴联苯	ND	5	--
Octabromobiphenyl八溴联苯	ND	5	--
Nonabromobiphenyl九溴联苯	ND	5	--
Decabromobiphenyl十溴联苯	ND	5	--
Polybrominated Diphenylethers (Mono – Deca) (PBDEs) 多溴联苯醚 (1 – 10) (PBDEs)	< 50	--	1000
Monobromodiphenyl ether单溴联苯醚	ND	5	--
Dibromodiphenyl ether二溴联苯醚	ND	5	--
Tribromodiphenyl ether三溴联苯醚	ND	5	--
Tetrabromodiphenyl ether四溴联苯醚	ND	5	--
Pentabromodiphenyl ether五溴联苯醚	ND	5	--
Hexabromodiphenyl ether六溴联苯醚	ND	5	--
Heptabromodiphenyl ether七溴联苯醚	ND	5	--
Octabromodiphenyl ether八溴联苯醚	ND	5	--
Nonabromodiphenyl ether九溴联苯醚	ND	5	--
Decabromodiphenyl ether十溴联苯醚	ND	5	--

- Note : 1. mg/kg = part per million = ppm  
备注 mg/kg = 毫克/千克 = 百万分之一
2. ND = Not Detected (Less than MDL)  
ND = 未检测到 (小于 MDL)
3. MDL = Method Detection Limit  
MDL = 方法检测限

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**TEST RESULTS:**

测试结果:

2. Test Method : To refer to the standard EN14372:2004(clause 6.3.2), the analysis was performed by Gas Chromatography Mass Spectrometry (GC-MS).

测试方法: 参照测试标准 EN14372:2004(6.3.2条), 分析仪器为气相色谱质谱联用仪(GC-MS)。

Analyte 被分析物	Di-2-ethylhexyl phthalate 邻苯二甲酸二(2-乙基己基) (DEHP)	Dibutyl phthalate 邻苯二甲酸二丁酯 (DBP)	Benzylbutyl phthalate 邻苯二甲酸丁苄酯 (BBP)
MDL (%)	0.0030	0.0030	0.0030
Client's requirement (%) 客户要求	EACH : 0.1		
Test Item 试样	Test Result (%) 测试结果		
Transparent soft plastic 透明软塑料	ND	ND	ND

Note : 1. ND = Not Detected (Less than MDL)

ND = 未检测到 (小于 MDL)

2. MDL = Method Detection Limit

MDL = 方法检测限

3. Test Method : To refer to the standard US EPA3540C:1996, the analysis was performed by Gas Chromatography Mass Spectrometry (GC-MS).

测试方法: 参照 US EPA3540C:1996, 分析仪器为气相色谱质谱联用仪(GC-MS)。

Analyte 被分析物	Test Result (%) 测试结果		Client's requirement 客户要求 (%)
	Transparent soft plastic 透明软塑料	MDL (%)	
Hexabromocyclododecane(HBCDD) 六溴环十二烷(HBCDD)	ND	0.0050	0.1

Note : 1. ND = Not Detected (Less than MDL)

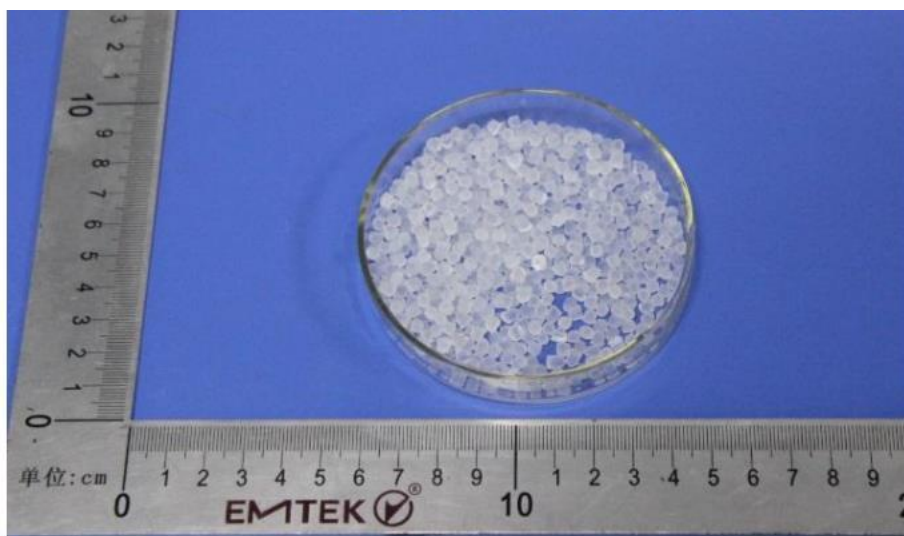
ND = 未检测到 (小于 MDL)

2. MDL = Method Detection Limit

MDL = 方法检测限

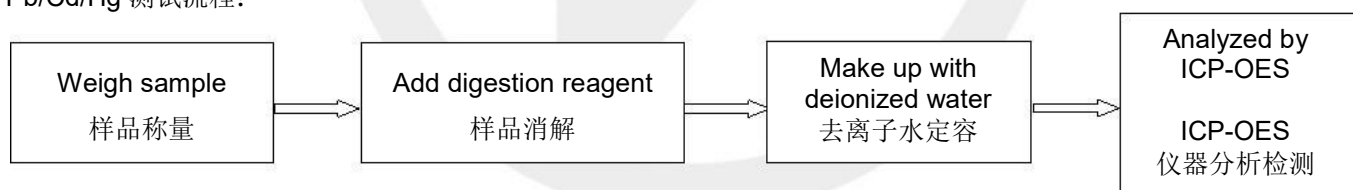
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Photo Appendix  
 样品照片

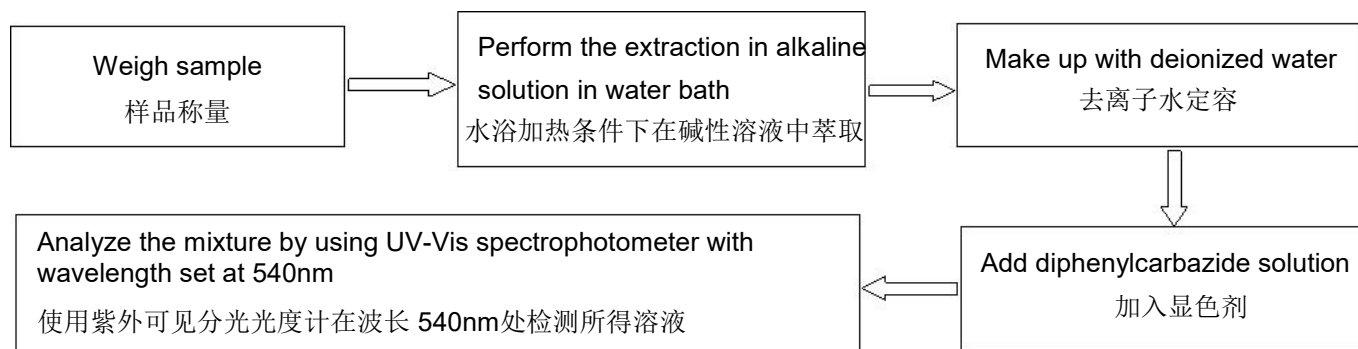


TEST FLOWCHART  
 测试流程图

Pb/Cd/Hg Test Process :  
 Pb/Cd/Hg 测试流程:



Cr<sup>6+</sup> Test Process:  
 Cr<sup>6+</sup> 测试流程:

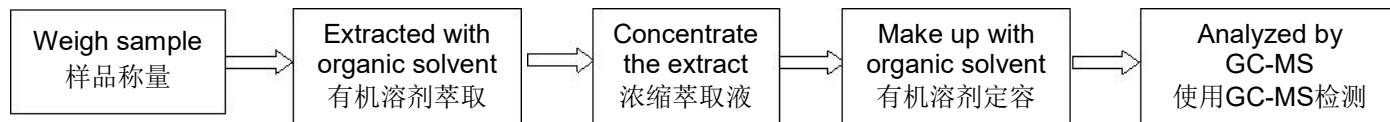


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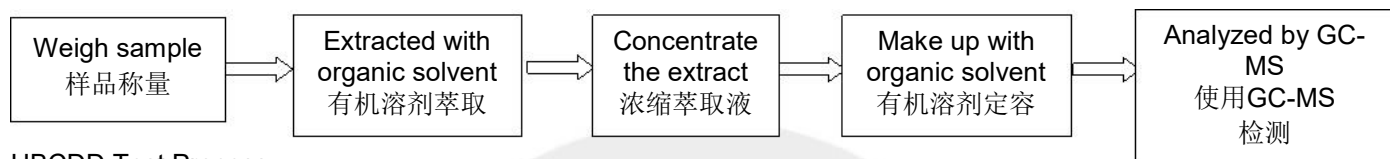
**PBBs & PBDEs Test Process:**

PBBs & PBDEs 测试流程:



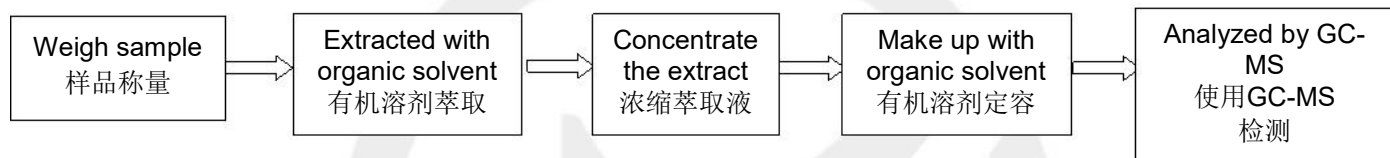
**DEHP, DBP, BBP Test Process:**

DEHP, DBP, BBP 测试流程:



**HBCDD Test Process:**

HBCDD 测试流程:



\* \* \* \* \* The End \* \* \* \* \*  
\* \* \* \* \* 结 束 \* \* \* \* \*