

TEST REPORT

REPORT No.: R2XM190329F8160A

Date: April 12, 2019

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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 BOTTLE
样品名称	:	硅胶水瓶
Sample Receiving Date	:	March 29, 2019
收样日期	:	2019 年 3 月 29 日
Testing Period	:	From March 29, 2019 to April 12, 2019
测试周期	:	2019 年 3 月 29 日至 2019 年 4 月 12 日
Result	:	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:

Jane Xu

Jane Xu-许亚艳
Technical Supervisor
技术主管

Approved by 核准:

Bensen Huang

Bensen Huang-黄雁
Laboratory Manager
实验室经理

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Summary of Test Results:

测试结果概要:

TEST REQUEST

CONCLUSION

测试要求

结论

	In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 and 31, BfR recommendation & Regulation(EC)	
A	No.1935/2004 of the European Parliament	
	按照 2005 年 9 月 1 日德国《食品和日用品法》(LFGB)第 30 和 31 条款,德国联邦风险评估研究所 BfR 的推荐测试&欧盟与食品接触材料安全法规 1935/2004/EC	
A.1	Sensorial examination odour and taste test	Pass
	气味和味道的感官测试	合格
A.2	Overall Migration	Pass
	全面迁移测试	合格
A.3	Specific migration of Heavy Metals	Pass
	重金属特殊迁移	合格
A.4	Total Lead (Pb) & Total Cadmium(Cd)	Pass
	总铅&总镉	合格
A.5	Polycyclic Aromatic Hydrocarbon(PAHs) Content	Pass
	多环芳烃(PAHs)	合格
A.6	Specific migration of Acrylonitrile	Pass
	丙烯腈迁移	合格
A.7	Volatile Organic Components	Pass
	挥发性有机物 VOC	合格
A.8	Peroxide value	Pass
	过氧化值	合格
A.9	Primary aromatic amines	Pass
	初级芳香胺	合格
A.10	Volatile organic matter	Pass
	挥发性有机物	合格
A.11	Organotin Content	Pass
	有机锡含量	合格
A.12	Extractable component	Pass
	提取物	合格
A.13	Colour release	Pass
	颜色迁移	合格

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Results:

测试结果:

Tested part(s):

测试部位:

- (1) White plastic 白色塑料
(2) Grey silicone 灰色硅胶

A. In accordance with German Food, Articles of Daily Use and Feed Code of September 1, 2005(LFGB), Section 30 and 31, BfR recommendation & Regulation(EC) No.1935/2004 of the European Parliament

按照 2005 年 9 月 1 日德国《食品和日用品法》(LFGB)第 30 和 31 条款,德国联邦风险评估研究所 BfR 的推荐测试& 欧盟与食品接触材料安全法规 1935/2004/EC

A.1: Sensorial examination odour and taste test

气味和味道的感官测试

Test method: Robinson's test with reference to DIN 10955:2004.

测试方法: 参照 DIN 10955:2004 的罗宾逊的测试

No. of panelist: 6

小组成员: 6

Item 测试项目	Results 结果		Limit 限值
	(1)	(2)	
Sensorial examination odour(Point scale) 感官测试:嗅觉(等级尺度)	0	0	2.5
Sensorial examination taste(Point scale) 感官测试:味觉(等级尺度)	0	0	2.5
Conclusion 结论	Pass 合格	Pass 合格	/

Note:

注释:

- 0: No perceptible odour 未感知到气味
1: Odour just perceptible(still difficult to define) 可感知到气味 (但难以分辨)
2: Moderate odour 温和的气味
3: Moderately strong odour 中度强烈的气味
4: Strong odour 强烈的气味

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A.2: Overall Migration

全面迁移测试

Test method: With reference to BS EN1186-1: 2002 for selection of conditions and test methods: BS EN1186-3: 2002 aqueous food simulates by total immersion methods;

测试方法: 参照 EN1186-1: 2002 全面迁移条件选择和实验方法的选择指南: BS EN1186-3: 2002 全浸入法全部转移到含水食品模拟装置中的试验方法

Simulant Used 测试条件	Unit 单位	MDL	Results 结果		Limit 限值
			(1)	(2)	
Distilled water at 70°C for 2 hours 去离子水, 70°C, 2 小时	mg/dm ²	3	N.D.	N.D.	10
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 = 方法检测限
- Photo appendix is included.
样品照片见附录。

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A.3: Specific migration of Heavy Metals

重金属特殊迁移

Test method: With reference to 3% acetic at 70°C for 2hours Analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

测试方法: 3%乙酸, 70°C, 测试时间 2 小时, 用 ICP-OES 分析

Item 测试项目	Unit 单位	MDL	Results 结果	Maximum permissible Limit 限值
			(1)	
Specific migration of Barium (Ba) 钡(Ba)	mg/kg	0.1	N.D.	1
Specific migration of Ferrum(Fe) 铁(Fe)	mg/kg	1	N.D.	48
Specific migration of Lithium (Li) 锂(Li)	mg/kg	0.1	N.D.	0.6
Specific migration of Zinc(Zn) 锌(Zn)	mg/kg	1	N.D.	5
Specific migration of Copper(Cu) 铜(Cu)	mg/kg	1	N.D.	5
Specific migration of Cobalt(Co) 钴(Co)	mg/kg	0.05	N.D.	0.05
Specific migration of Manganese(Mn) 锰(Mn)	mg/kg	0.05	N.D.	0.6
Specific migration of Aluminum(Al) 铝(Al)	mg/kg	0.05	0.06	1
Specific migration of Nickel (Ni) 镍(Ni)	mg/kg	0.02	N.D.	0.02
Specific migration of Tungsten (W) 钨(W)	mg/kg	0.05	N.D.	0.05
Conclusion 结论	/	/	Pass 合格	/

Note:

注释:

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N.D. = 未检出或低于检出限
- MDL = Method Detection Limit
MDL = 方法检测限
- mg/kg = ppm
- Photo appendix is included.
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A.4: Total Lead (Pb) & Total Cadmium(Cd)

总铅&总镉

Test method: With reference to US EPA 3052:1996/ EPA 3050B:1996 & EPA 6010D: 2014, by acid digestion and analysis was performed by Inductively Coupled Plasma-Optical Emission Spectrometer (ICP-OES)

测试方法: 参考 US EPA 3052:1996/ EPA 3050B:1996 & EPA 6010D: 2014, 用 ICP-OES 分析

Item 项目	Unit 单位	MDL	Results 结果		Limit 限值
			(1)	(2)	
Total Lead (Pb) 总铅(Pb)	mg/kg	10	N.D.	14	100
Total Cadmium(Cd) 总镉(Cd)	mg/kg	10	N.D.	N.D.	100
Conclusion 结论	/	/	Pass 合格	Pass 合格	/

Note:

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MDL = 方法检测限
- mg/kg = ppm
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A.5: Polycyclic Aromatic Hydrocarbon(PAHs) Content

多环芳烃(PAHs)

Test method: by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

测试方法:样品采用有机溶剂萃取, 气相色谱质谱联用仪 (GC-MS) 检测

Item 项目	CAS No. CAS 编号	Unit 单位	MDL	Results 测试结果		Limit 限量
				(1)	(2)	
Acenaphthylene 苊 (ANY)	208-96-8	mg/kg	0.2	N.D.	N.D.	---
Acenaphthene 二氢苊 (ANA)	83-32-9	mg/kg	0.2	N.D.	N.D.	---
Fluorene 芴 (FLU)	86-73-7	mg/kg	0.2	N.D.	N.D.	---
Phenanthrene 菲 (PHE)	85-01-8	mg/kg	0.2	N.D.	N.D.	---
Anthracene 蒽 (ANT)	120-12-7	mg/kg	0.2	N.D.	N.D.	---
Fluoranthene 荧蒽 (FLT)	206-44-0	mg/kg	0.2	N.D.	N.D.	---
Pyrene 芘 (PYR)	129-00-0	mg/kg	0.2	N.D.	N.D.	---
Total content of 7 PAHs ¹⁾ 7 PAHs 总量 ¹⁾	/	mg/kg	/	N.D.	N.D.	<10
Naphthalene 萘 (NAP)	91-20-3	mg/kg	0.2	N.D.	N.D.	< 2
Benzo(a)anthracene 苯并(a)蒽 (BaA)	56-55-3	mg/kg	0.2	N.D.	N.D.	<0.5
Chrysene 屈 (CHR)	218-01-9	mg/kg	0.2	N.D.	N.D.	<0.5
Benzo(b)fluoranthene 苯并(b)荧蒽 (BbF)	205-99-2	mg/kg	0.2	N.D.	N.D.	<0.5
Benzo(k)fluoranthene 苯并(k)荧蒽 (BkF)	207-08-9	mg/kg	0.2	N.D.	N.D.	<0.5
Benzo(a)pyrene 苯并(a)芘 (BaP)	50-32-8	mg/kg	0.2	N.D.	N.D.	<0.5
Indeno(1,2,3-cd)pyrene 茚并(1,2,3-cd)芘 (IPY)	193-39-5	mg/kg	0.2	N.D.	N.D.	<0.5
Dibenzo(a,h)anthracene 二苯并(a,h)蒽 (DBA)	53-70-3	mg/kg	0.2	N.D.	N.D.	<0.5
Benzo(g,h,i)perylene 苯并(g,h,i)二萘嵌苯 (BPE)	191-24-2	mg/kg	0.2	N.D.	N.D.	<0.5
Benzo[j]fluoranthene 苯并 [j] 荧蒽	205-82-3	mg/kg	0.2	N.D.	N.D.	<0.5
Benzo[e]pyrene 苯并 [e] 芘	192-97-2	mg/kg	0.2	N.D.	N.D.	<0.5
Total content of 18 PAHs 18 PAHs 总量	/	mg/kg	/	N.D.	N.D.	<10
Conclusion 结论	/	/	/	Pass 合格	Pass 合格	/

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N.D. = 未检出或低于检出限
- MDL = Method Detection Limit
MDL = 方法检出限
- --- = Not Regulated
--- = 未规定
- mg/kg = ppm
毫克每千克 = ppm
- ¹⁾7PAHs including Acenaphthylene (ANY)、Acenaphthene (ANA)、Fluorene (FLU)、Phenanthrene (PHE)、Anthracene (ANT)、Fluoranthene (FLT)、Pyrene (PYR)
¹⁾7PAHs 包含苊、二氢苊、芴、菲、蒽、荧蒽、芘
- In the sum of all 18 PAHs according to EPA only considers PAH components whose level in the material is found to exceed 0.2mg/kg.
在计算 18 种 PAH (根据 EPA “环境保护署”) 总和时, 只有大于 0.2mg/kg 的结果才需要考虑进去。
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A.6: Specific migration of Acrylonitrile

丙烯腈迁移

Test method: With reference to EN13130-1:2004 for selection of test methods, by solvent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS)

测试方法: 参照EN 13130-1:2004模拟和条件选择, 样品采用有机溶剂萃取, 气相色谱质谱联用仪 (GC-MS) 检测

Simulant Used 测试条件	Unit 单位	MDL	Results 结果	Limit 限值
			(1)	
Distilled water at 70°C for 2 hours 去离子水, 70°C, 2 小时	mg/kg	0.01	N.D.	0.02
Conclusion 结论	/	/	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 = 方法检测限
- mg/kg = ppm
- Photo appendix is included.
样品照片见附录。

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A.7: Volatile Organic Components 挥发性有机物 VOC

Test method: 90°C for 24hours

测试方法: 90°C, 测试时间 24 小时

Item 项目	Unit 单位	MDL	Results 结果	Limit 限值
			(1)	
Volatile Organic Components 挥发性有机物 VOC	mg/dm ²	3	N.D.	15
Conclusion 结论	/	/	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
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MDL = 方法检测限
- Photo appendix is included.
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A.8 : Peroxide value

过氧化值

Test method: With reference to European pharmacopoeia, 2005 Appendix X F. Peroxide Value method A

测试方法: 参照欧洲药典附录 X F(2005 年版), 过氧化值测定方法 A

Item 项目	Results 结果		Limit 限值
	(1)	(2)	
Peroxide value 过氧化值	N.D.	N.D.	Absent 不得含有
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 = 方法检测限
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A.9 : Primary aromatic amines

初级芳香胺

Test method: 3% acetic at 70°C for 2hours

测试方法: 3%乙酸, 70°C, 测试时间 2 小时

Item 测试项目	Unit 单位	MDL	Results 结果	Limit 限值
			(2)	
Primary aromatic amines 初级芳香胺	mg/kg	0.01	N.D.	Absent 不得含有
Conclusion 结论	/	/	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 = 方法检测限
- mg/kg = ppm
- Photo appendix is included.
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A.10: Volatile organic matter

挥发性有机物

Test method: With reference to 60. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 45 (2002) 462 and LFGB § 64 BVL B 80.30.1(EG)

测试方法: 参考 60. Mitteilung über die Untersuchung von Kunststoffen, Bundesgesundheitsbl 45 (2002) 462 和 LFGB § 64 BVL B 80.30.1(EG)

Item 项目	Unit 单位	MDL	Results 结果	Limit 限值
			(2)	
Volatile organic matter 挥发性有机物	%	0.1	N.D.	0.5
Conclusion 结论	/	/	Pass 合格	/

Note:

注释:

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A.11: Organotin Content

有机锡含量

Test method: Solvent extraction and analysis was performed by gas chromatographic- mass spectrometer (GC-MS)
测试方法: 溶剂萃取, 采用气相色谱质谱联用仪(GC-MS)测定。

Items 项目	Unit 单位	MDL	Results 结果	Limit 限值
			(2)	
Monobutyltin(MBT) 单丁基锡	mg/kg	0.02	N.D.	Absent 不得含有
Dibutyltin (DBT) 二丁基锡	mg/kg	0.02	N.D.	Absent 不得含有
Tributyltin(TBT) 三丁基锡	mg/kg	0.02	N.D.	Absent 不得含有
Monooctyltin(MOT) 单辛基锡	mg/kg	0.02	N.D.	Absent 不得含有
Tetrabutyltin(TTBT) 四丁基锡	mg/kg	0.02	N.D.	Absent 不得含有
Diocetyltn(DOT) 二辛基锡	mg/kg	0.02	N.D.	Absent 不得含有
Triphenyltin(TPhT) 三苯基锡	mg/kg	0.02	N.D.	Absent 不得含有
Conclusion 结论	/	/	Pass 合格	/

Note:

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MDL = 方法检测限
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A.12: Extractable component

提取物

Test method: With reference to 61st Communication on testing of plastic in Bundesgesundheitsbl 46(2003)362

测试方法: 参考 61 届塑料测试交流会议, 联邦健康卫生报 46(2003)362

Simulant Used 测试条件	Unit 单位	MDL	Results 结果	Limit 限值
			(2)	
Distilled water at Reflux temperature for 5.0hr 去离子水, 回流 5hr	%	0.1	N.D.	0.5
Conclusion 结论	/	/	Pass 合格	/

Note:

注释:

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A.13: Colour release

颜色迁移

Test method: With reference to Kunststoffe im Lebensmittelverkehr Book II, Teil B II, IX

测试方法: 参考 Kunststoffe im Lebensmittelverkehr Book II, Teil B II, IX

Item 测试项目	Results 结果	Limit 限值
	(2)	
Distilled water at 50°C for 5 hours 去离子水, 50°C, 5 小时	No transfer of colorants 无颜色迁移	No transfer of colorants 无颜色迁移
Conclusion 结论	Pass 合格	/

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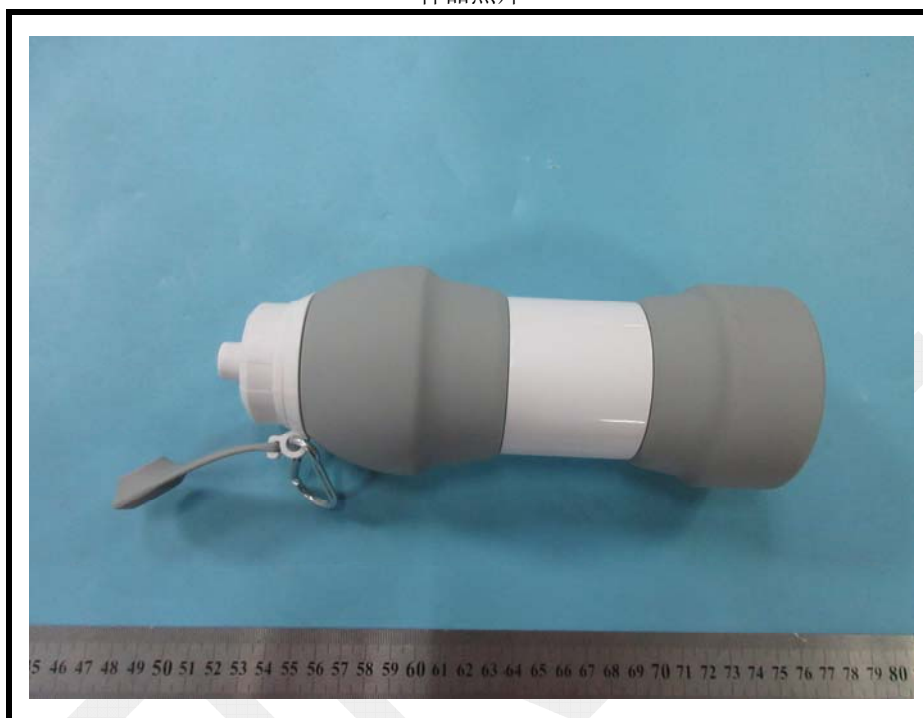
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Photograph of Sample

样品照片



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