

Test Report No.: 68.431.24.1352.01AR1

Dated: 2024-03-04



Applicant : Guangzhou Koodee Metal Co.,Ltd
Rm2908, Block A, Zhongjing Building, Poly-Plaza Clover,
No.406#2, Huasui Rd, Guangzhou, China 510623

Sample Description : stainless steel bottle

Supplier : Guangzhou Koodee Metal Co.,Ltd

Manufacturer : Foshan Koodee Metal Co.,Ltd

Country of Origin : China

Test Sample Receipt Date, Location : 2024-01-29, Shenzhen

Test Period, Location : From 2024-02-01 to 2024-02-07,
From 2024-02-26 to 2024-03-04, Shenzhen

Test Result(s) : Refer to Section 3



Regd. Office:

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Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : <http://www.tuv sud.cn>

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Purpose Of Examination / Conclusion:

Test Requested:	As specified by client, to test per the selected requirement(s) for the tested item(s) as stated in the German Food & Feed Acts LFGB (§ 30 & 31), Regulation (EC) No.1935/2004 and Information Notice No. 2014-108 (NI 2014-108), Information Notice No. 2012-93 (NI 2012-93)
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No.	Test Item(s)	Conclusion
1	Overall Migration	Pass
2	Specific Migration of PAA	Pass
3	Specific Migration of PAAs	Pass
4	Specific Migration of Heavy Metals	Pass
5	Extractable 23 Heavy Metals Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9	Pass
6	Volatile Organic Matters	Pass
7	Total Bisphenol A Content	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test items and samples were specified by the client
- (4) "Pass" means the measured result is within a limit, even when extended by expanded uncertainty. "Fail" means the measured result is beyond a limit, even when extended by expanded uncertainty. "Inconclusive" means the measured result can be within or beyond a limit when extended by expanded uncertainty. The confidence level of the expended uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.
- (5) This report supersedes previous report 68.431.24.1352.01A issued on 2024-02-07. As per client's request, added test item 6&7.

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Prepared by:

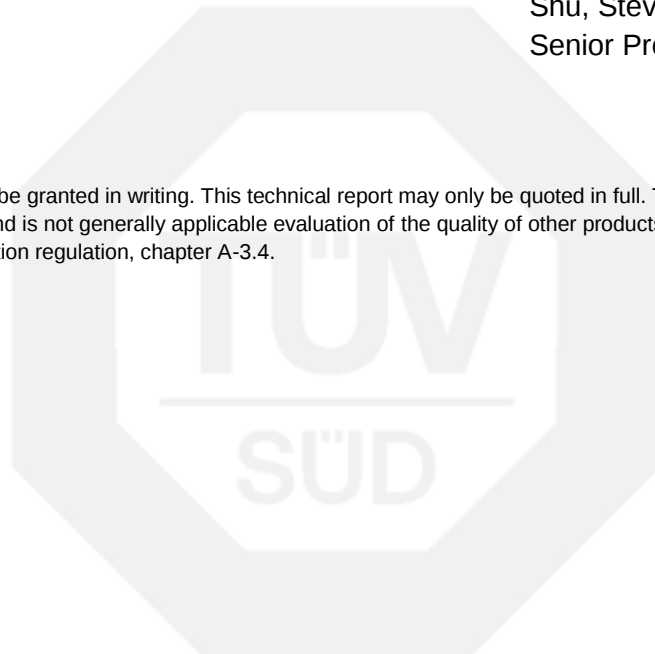
Reviewed by:



Huang, Jessica
Senior Project Coordinator

Shu, Steven
Senior Project Coordinator

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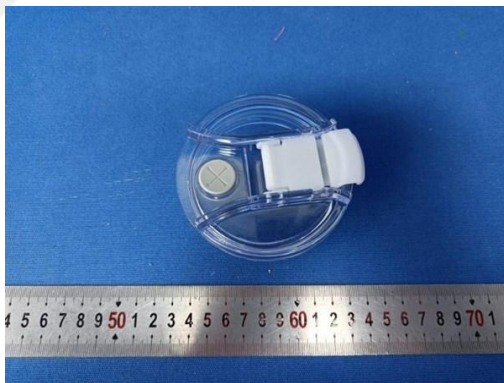
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1. Description of the Test Sample:

Sample Description	stainless steel bottle	
		

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Silvery stainless steel 304 (Interior of mug)	
T2	002	Transparent PS plastic (Lid)	
T3	003	White PP plastic (Flip)	

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T. No.	Sample No.	Colour and Description	Photograph
T4	004	Translucent silicone (Seal ring)	



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3. Test Result

3.1 Overall Migration

Test method: As specified in Regulation (EU) No. 10/2011 ANNEX III and V, test with reference to:
EN 1186-1:2002 (Guide to the selection of conditions and test methods for overall migration)
EN 1186-3:2022 (Test methods for overall migration in evaporable simulants)
[Reporting Limit: 3mg/dm²]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
3% Acetic acid	100°C for 2 Hours	ND	ND	ND	<10
50% Ethanol	100°C for 2 Hours	ND	ND	ND	<10
Conclusion:		Pass*			--

TEST ITEM	TEST CONDITIONS	RESULTS [mg/dm ²]			LIMIT [mg/dm ²]
		SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
3% Acetic acid	100°C for 2 Hours	ND	ND	ND	<10
50% Ethanol	100°C for 2 Hours	ND	ND	ND	<10
Conclusion:		Pass*			--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/dm²" denotes milligram per square decimeter

4. "ND" denotes below the Reporting Limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.1 Overall Migration

Test method: As specified in Resolution ResAP(2004)5 then test with reference to:
EN 1186-1:2002(Guide to the selection of conditions and test methods for overall migration)
EN 1186-3:2022 (Test methods for overall migration in evaporable simulants)
[Reporting Limit: 5mg/kg]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/kg]	LIMIT [mg/kg]
		SAMPLE 004 3 rd Migration	
3% Acetic acid	100°C for 2 Hours	ND	<60
50% Ethanol	100°C for 2 Hours	ND	<60
Conclusion:		Pass	--

Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting Limit

5. The specification was quoted from Resolution ResAP(2004)5



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3.2 Specific Migration of PAA

Test method: with reference to EN 13130-1:2004, follow by Ultraviolet and visible spectrophotometry (UV-Vis).

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

Note 1. "°C" denotes degree Celsius

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3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration	
4-Aminobiphenyl (4-ABP)	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	101-80-4	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	108-45-2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene	2243-62-01	ND	ND	ND	<0.002

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(1,5-DAN)					
2-naphthylamine	91-59-8	ND	ND	ND	<0.002
o-aminoazotoluene	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

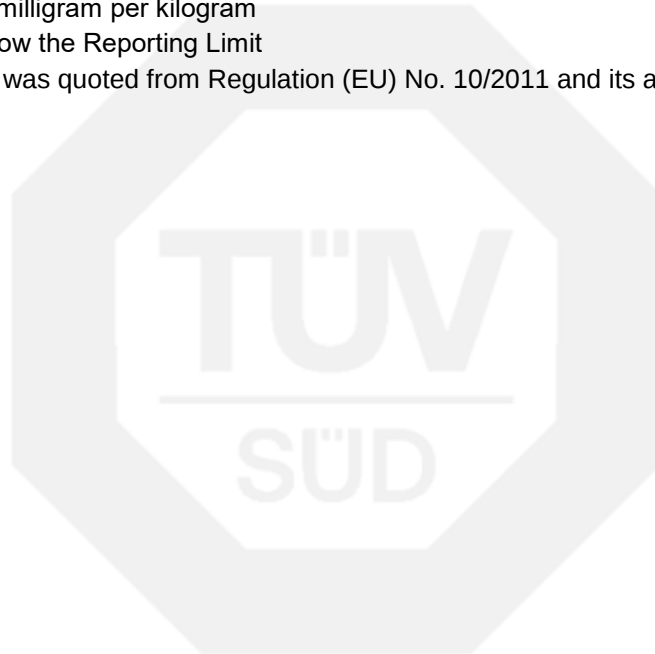
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3.3 Specific Migration of PAAs

Test method: with reference to EN 13130-1:2004, follow by Liquid chromatography tandem mass spectrometer (LC-MS/MS). [Reporting Limit:0.002 mg/kg]

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration	
4-Aminobiphenyl (4-ABP)	92-67-1	ND	ND	ND	<0.002
Aniline (ANL)	62-53-3	ND	ND	ND	<0.002
o-Anisidine (o-ASD)	90-04-0	ND	ND	ND	<0.002
Benzidine (BNZ)	92-87-5	ND	ND	ND	<0.002
4-Chloro-Aniline (4-CA)	106-47-8	ND	ND	ND	<0.002
4-Chloro-o-Toluidine (4-CoT)	95-69-2	ND	ND	ND	<0.002
2,4-Dimethylaniline (2,4-DMA)	95-68-1	ND	ND	ND	<0.002
4,4'-Diaminodiphenylether (4,4'-DPE)	101-80-4	ND	ND	ND	<0.002
4,4'-Methylenedianiline (4,4'-MDA)	101-77-9	ND	ND	ND	<0.002
4,4'-Methylenedi-o-toluidine (4,4'-MDoT)	838-88-0	ND	ND	ND	<0.002
2-Methoxy-5-Methylaniline (2-M-5-MA)	120-71-8	ND	ND	ND	<0.002
m-Phenylenediamine (m-PDA)	108-45-2	ND	ND	ND	<0.002
4-Methoxy-mphenylenediamine (4-M-mPDA)	615-05-4	ND	ND	ND	<0.002
o-Toluidine (o-T)	95-53-4	ND	ND	ND	<0.002
2,4-Toluenediamine (2,4-TDA)	95-80-7	ND	ND	ND	<0.002
3,3-Dimethylbenzidine (3,3-DMB)	119-93-7	ND	ND	ND	<0.002
2,4,5-Trimethylaniline (2,4,5-TMA)	137-17-7	ND	ND	ND	<0.002
2,6-Toluenediamine (2,6-TDA)	823-40-5	ND	ND	ND	<0.002
2,6-Dimethylaniline (2,6-DMA)	87-62-7	ND	ND	ND	<0.002
p-Phenylenediamine (p-PDA)	106-50-3	ND	ND	ND	<0.002
1,5-Diaminenaphthalene	2243-62-01	ND	ND	ND	<0.002

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o-aminoazotoluene	97-56-3	ND	ND	ND	<0.002
5-nitro-o-toluidine	99-55-8	ND	ND	ND	<0.002
3,3'-dichlorobenzidine	91-94-1	ND	ND	ND	<0.002
3,3'-dimethoxybenzidine	119-90-4	ND	ND	ND	<0.002
4,4'-methylene-bis-(2-chloro-aniline)	101-14-4	ND	ND	ND	<0.002
4,4'-thiodianiline	139-65-1	ND	ND	ND	<0.002
4-amino azobenzene	60-09-3	ND	ND	ND	<0.002
Conclusion:		Pass	Pass	Pass	--

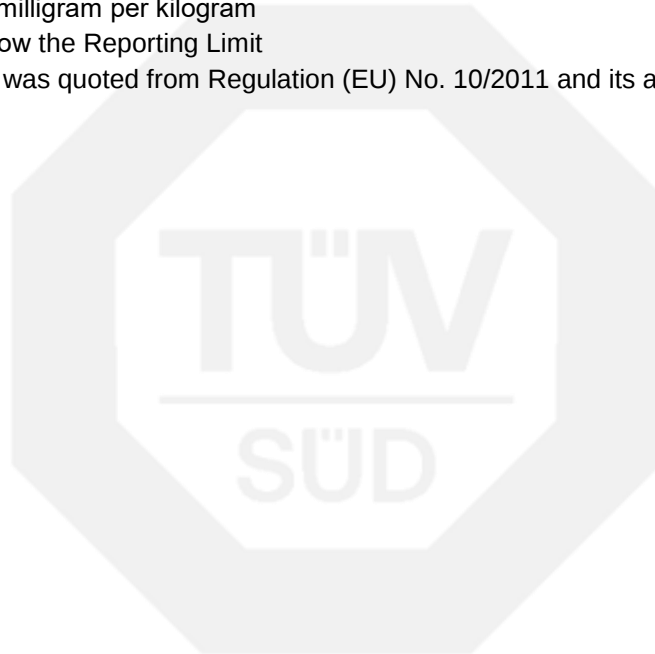
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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 1 st Migration	SAMPLE 002 2 nd Migration	SAMPLE 002 3 rd Migration		
Aluminium (Al)	ND	ND	ND	0.1	<1
Antimony (Sb)	ND	ND	ND	0.01	<0.04
Arsenic (As)	ND	ND	ND	0.01	<0.01
Barium (Ba)	ND	ND	ND	0.1	<1
Cadmium (Cd)	ND	ND	ND	0.002	<0.002
Chromium (Cr)	ND	ND	ND	0.01	<0.01
Cobalt (Co)	ND	ND	ND	0.02	<0.05
Copper (Cu)	ND	ND	ND	0.5	<5
Iron (Fe)	ND	ND	ND	1.0	<48
Lead (Pb)	ND	ND	ND	0.01	<0.01
Lithium (Li)	ND	ND	ND	0.1	<0.6
Manganese (Mn)	ND	ND	ND	0.05	<0.6
Mercury (Hg)	ND	ND	ND	0.01	<0.01
Nickel (Ni)	ND	ND	ND	0.01	<0.02
Zinc (Zn)	ND	ND	ND	1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

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6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

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3.4 Specific Migration of Heavy Metals

Test method: with reference to EN 13130-1:2004, follow by Inductively Coupled Plasma Mass Spectrometry (ICP-MS).

Test Conditions: 3% Acetic Acid: 100 °C for 2 Hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 003 1 st Migration	SAMPLE 003 2 nd Migration	SAMPLE 003 3 rd Migration		
Aluminium (Al)	ND	ND	ND	0.1	<1
Antimony (Sb)	ND	ND	ND	0.01	<0.04
Arsenic (As)	ND	ND	ND	0.01	<0.01
Barium (Ba)	ND	ND	ND	0.1	<1
Cadmium (Cd)	ND	ND	ND	0.002	<0.002
Chromium (Cr)	ND	ND	ND	0.01	<0.01
Cobalt (Co)	ND	ND	ND	0.02	<0.05
Copper (Cu)	ND	ND	ND	0.5	<5
Iron (Fe)	ND	ND	ND	1.0	<48
Lead (Pb)	ND	ND	ND	0.01	<0.01
Lithium (Li)	ND	ND	ND	0.1	<0.6
Manganese (Mn)	ND	ND	ND	0.05	<0.6
Mercury (Hg)	ND	ND	ND	0.01	<0.01
Nickel (Ni)	ND	ND	ND	0.01	<0.02
Zinc (Zn)	ND	ND	ND	1.0	<5
Sum of Eu, Gd, La, Tb	ND	ND	ND	0.04	<0.05
Conclusion:	Pass*			--	--

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

4. "ND" denotes below the Reporting limit

5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments

6. "*" denotes the results of second migration should lower than first migration, the result of third migration should lower than second migration.

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuv sud.cn

Lab 1 - Chemical testing and
part of electrical testing

Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District, Shenzhen, Guangdong, China

Lab 2 - Physical & mechanical
testing

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3.5 Extractable 23 Heavy Metals

Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9

Sample(s) was tested with below test condition, and followed by ICP-OES and ICP-MS analysis

Test Conditions: 0.5% citric acid: 100 °C for 2 Hours

Elements		Result(s) of 1 st + 2 nd Migration [mg/kg foodstuff]	Result(s) of 3 rd Migration [mg/kg foodstuff]	7*Maximum Permissible Limits [mg/k g foodstuff]	Maximum Permissible Limits [mg/k g foodstuff]
		SAMPLE 001			
1.	Aluminum (Al)	<0.2	<0.1	35	5
2.	Antimony (Sb)	<0.01	<0.005	0.28	0.04
3.	Arsenic (As)	<0.0008	<0.0004	0.014	0.002
4.	Barium (Ba)	<0.2	<0.1	8.4	1.2
5.	Beryllium (Be)	<0.004	<0.002	0.07	0.01
6.	Cadmium (Cd)	<0.0008	<0.0004	0.035	0.005
7.	Chromium (Cr)	<0.10	<0.050	1.75	0.25
8.	Cobalt (Co)	<0.004	<0.002	0.14	0.02
9.	Copper (Cu)	<0.2	<0.1	28	4
10.	Iron (Fe)	<0.2	<0.1	280	40
11.	Lead (Pb)	<0.02	<0.01	0.07	0.01
12.	Lithium (Li)	<0.01	<0.005	0.336	0.048
13.	Magnesium (Mg)	<0.1	<0.05	-	-
14.	Manganese (Mn)	<0.2	<0.1	12.6	1.8
15.	Mercury (Hg)	<0.001	<0.0005	0.021	0.003
16.	Molybdenum (Mo)	<0.004	<0.002	0.84	0.12
17.	Nickel (Ni)	<0.1	<0.05	0.98	0.14
18.	Silver (Ag)	<0.004	<0.002	0.56	0.08
19.	Thallium (Tl)	<0.0002	<0.0001	0.0007	0.0001
20.	Tin (Sn)	<1.0	<0.5	700	100
21.	Titanium (Ti)	<0.1	<0.05	-	-
22.	Vanadium (V)	<0.004	<0.002	0.07	0.01
23.	Zinc (Zn)	<0.2	<0.1	35	5

Note 1. "°C" denotes degree Celsius

2. "<" denotes less than

3. "mg/kg" denotes milligram per kilogram

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Shenzhen, Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

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3.6 Volatile Organic Matters

Test method: As specified in BfR Recommendation Part XV

Test Conditions: 200 °C for 4 Hours

TEST ITEM	RESULT [%]	MAXIMUM PERMISSIBLE LIMIT [%]
	SAMPLE 004	
Volatile Organic Matters	0.146	0.5
Conclusion	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percent by weight

3. The specification was quoted from Recommendation of the BfR "Kunststoffe im Lebensmittelverkehr" Part XV "Silicones".

3.7 Total Bisphenol A Content

Test method: With reference to In house method followed by LC-MSMS analysis. [Reporting Limit: 0.1 mg/kg]

Analyte	Results [mg/kg]
	Sample 004
Bisphenol A	<0.1
Limit	<0.1
Conclusion	Pass

Note:

1. "mg/kg" denotes milligram per kilogram

2. "<" denotes less than

3. The specification was quoted from French Law 2012-1442

-- END OF TEST REPORT--

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Building 12&13, Zhiheng Wisdomland Business Park, Guankou Erlu, Nantou, Nanshan District,
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APPENDIX: Reference Information of Submitted Sample

The following information were submitted and identified by the client, for reference only.

