

Test Report No.: 68.431.24.1108.01

Dated: 2024-01-26



Applicant : SAWA ENTERPRISES CO.,LIMITED
Room 513 · Block 3, HaoCheng Business Center, No.2,
QuanTang Road, Haizhu District, Guangzhou,China

Sample Description : S/S VACUUM TRAVEL BOTTLE, AIR POT AND COFFEE
POT

Style No. / Name / Design No. : SA1200(XC06),SA1500(XC07),SA2000(VM25),SA(XP84),
SP3000(XG47),SP4000(TX50),SS1000(HP05),
SS2000(HP01).

Product Type/ End use : houseware

Buyer : HENRI JULIEN-S.A.

Supplier : SAWA ENTERPRISES CO.,LIMITED

Manufacturer : SAWA ENTERPRISES CO.,LIMITED

Country of Origin : CHINA

Country of Destination : FRANCE

Test Sample Receipt Date, Location : 2024-01-08, 2024-01-09, 2024-01-22, Shenzhen

Test Period, Location : From 2024-01-08 to 2024-01-25, Shenzhen

Test Result(s) : Refer to Section 3

Regd. Office:

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Lab 1 - Chemical testing and
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Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

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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 French Information Notice DGCCRF 2014-108 and Regulation (EC) No.1935/2004
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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	Specific Migration of Organotin	Pass
6	Volatile Organic Matters	Pass
7	Peroxide	Pass
8	Stainless Steel Composition Test	Pass
9	Extractable 23 Heavy Metals Test as specified in EDQM Technical Guide Council of Europe Resolution CM/Res(2013)9	Pass
10	Total Bisphenol A Content	Pass

Remarks:

- (1) The results relate only to the items tested.
- (2) Samples are tested as received.
- (3) The test item 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 expanded uncertainty for "Pass", "Fail" and "Inconclusive" is 95%.

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TÜV SÜD Group

Prepared by:

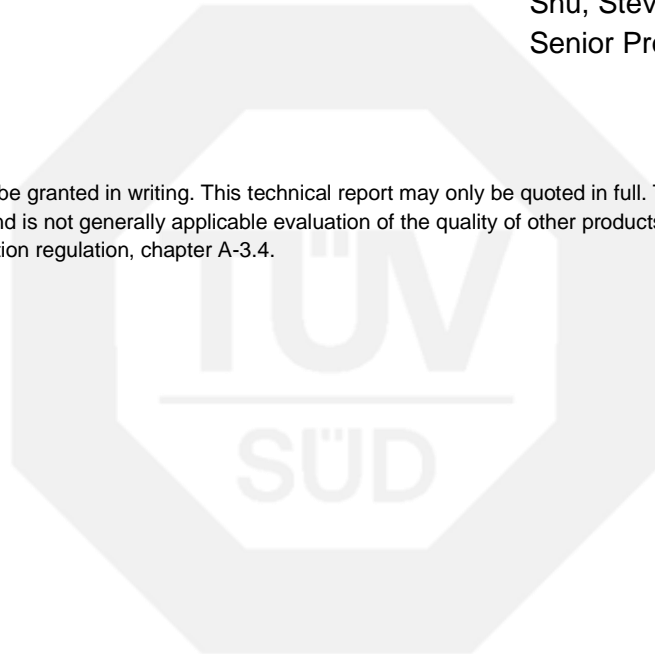
Reviewed by:



Huang, Jessica (3367)
Senior Project Coordinator

Shu, Steven (3656)
Senior Project Coordinator

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1. Description of the Test Sample:

Sample Description	S/S VACUUM TRAVEL BOTTLE, AIR POT AND COFFEE POT
---------------------------	--

2. List of Materials as identified by the Laboratory:

T. No.	Sample No.	Colour and Description	Photograph
T1	001	Black PP plastic (Lid & part)	
T2	002	Translucent white silicone (Sealing ring & part)	
T3	003	Silvery stainless steel 304 (Inner body of SP000 XG47)	

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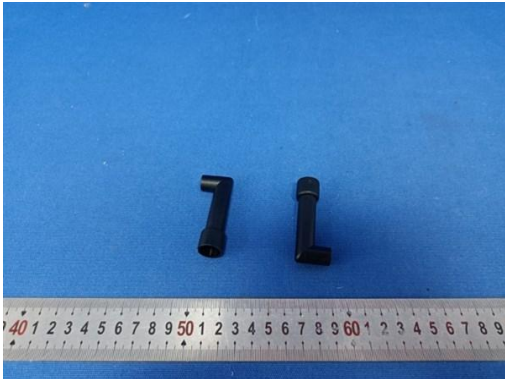
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T. No.	Sample No.	Colour and Description	Photograph
T4	004	Black plastic (Part)	



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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 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration	
10% Ethanol	100°C for 1 Hour	ND	ND	ND	<10
50% Ethanol	100°C for 1 Hour	ND	ND	ND	<10
Conclusion:		Pass*			--

Note 1. "°C" denotes degree Celsius

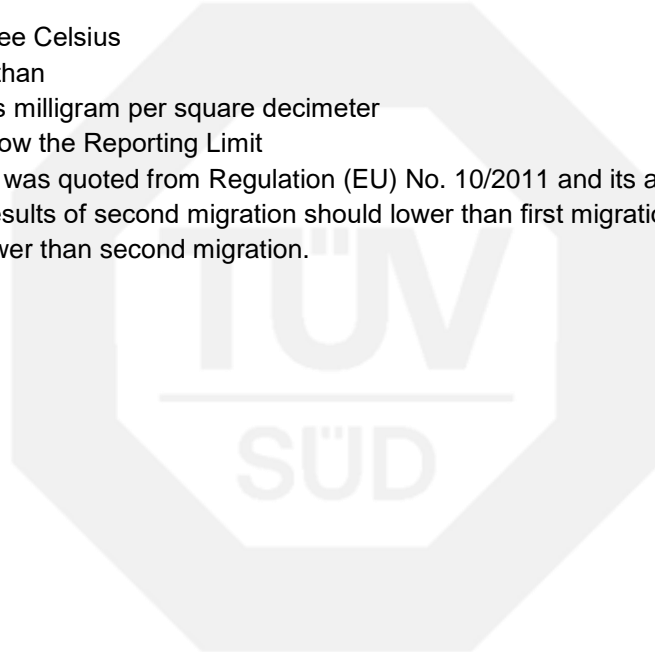
2. "<" denotes less than

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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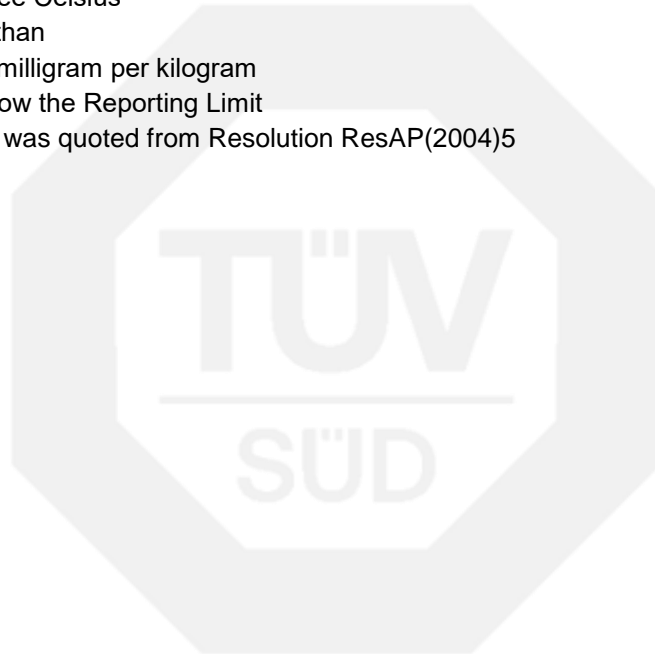


3.1 Overall Migration

Test method: As specified in 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: 5mg/kg]

TEST ITEM	TEST CONDITIONS	RESULTS [mg/kg]	LIMIT [mg/kg]
		SAMPLE 002 3 rd Migration	
10% Ethanol	100°C for 1 Hour	ND	<60
50% Ethanol	100°C for 1 Hour	ND	<60
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 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: boiling temperature closed for 24Hours

TEST ITEM	RESULT [mg/kg]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 3 rd Migration		
Primary Aromatic Amine	ND	ND	ND	0.01	<0.01
Conclusion:	Pass	Pass	Pass	--	--

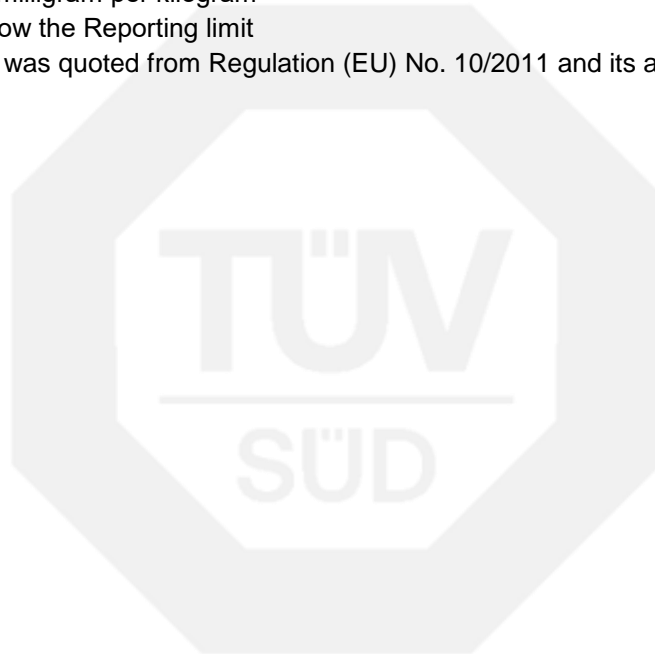
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3.3 Specific Migration of PAAs

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: boiling temperature closed for 24Hours

TEST ITEM	CAS No.	RESULTS [mg/kg foodstuff]			LIMIT [mg/kg]
		SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 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	--

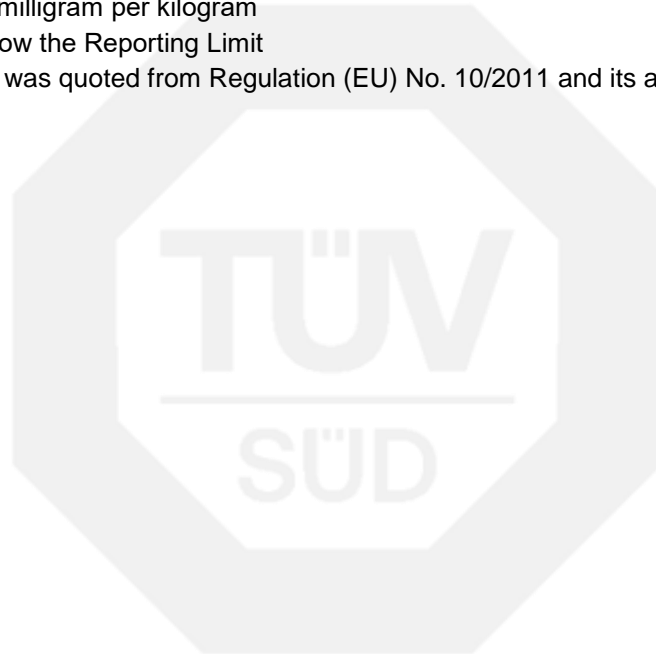
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5. The specification was quoted from Regulation (EU) No. 10/2011 and its amendments



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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: boiling temperature closed for 24Hours

TEST ITEM	RESULT [mg/kg foodstuff]			Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 001 1 st Migration	SAMPLE 001 2 nd Migration	SAMPLE 001 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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3.5 Specific Migration of Organotin

Test method: With reference to French Arrêté du 25 novembre 1992, and followed by gas chromatography/Mass Spectrometry (GC-MS) analysis.

Test Conditions: 3% Acetic acid: boiling temperature closed for 24Hours

TEST ITEM	RESULT [mg/kg foodstuff]	Reporting limit [mg/kg]	LIMIT [mg/kg]
	SAMPLE 002 3 rd Migration		
Organotin (Sn)	ND	0.1	0.1
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 French Arrêté du 25 novembre 1992

3.6 Volatile Organic Matters

Test method: With reference to French Arrêté du 25 novembre 1992

Test Conditions: 200 °C for 4 Hours

TEST ITEM	RESULT [%]	MAXIMUM PERMISSIBLE LIMIT [%]
	SAMPLE 002	
Volatile Organic Matters	0.11	<0.5
Conclusion	Pass	-

Note 1. "<" denotes less than

2. "%" denotes percent by weight

3. The specification was quoted from French Arrêté du 25 novembre 1992

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3.7 Peroxide

Test method: With reference to French Arrêté du 25 novembre 1992.

TEST ITEM	RESULTS	MAXIMUM PERMISSIBLE LIMIT
	SAMPLE 002	
Peroxide Value	Absent	Absent
Conclusion	Pass	-

Note 1. The specification was quoted from French Arrêté du 25 novembre 1992.

3.8 Stainless Steel Composition Test

Test method: Acid digestion, followed by analysis with Inductively Coupled Plasma Spectrometry (ICP).

Sample	Test item	Results [%]	Maximum Permissible Limits [%]	Conclusion
003	Chromium(Cr)	17.81	≥13.0	Pass
	Niobium(Nb)	<0.01	<1.0	
	Molybdenum(Mo)	0.02	<4.0	
	Aluminium(Al)	<0.01	<4.0	
	Copper(Cu)	0.06	<4.0	
	Titanium(Ti)	<0.01	<4.0	
	Zirconium(Zr)	<0.01	<1.0	
	Tantalum(Ta)	0.09	<1.0	

Note 1. “%” denotes percentage by weight

2. “<” denotes less than

3. “>” denotes greater than

4. The specification was quoted from French Arrêté du 13 Janvier 1976.

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3.9 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: hot-fill 40°C 24Hours

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 003			
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)	0.3	<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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Lab 2 - Physical & mechanical
testing

Building A2, Jin'ao Industrial Park, No. 150, Jingfang Road, Fuhai, Baoan District, Shenzhen, Guangdong, China

Test Report No.: 68.431.24.1108.01

Dated: 2024-01-26



3.10 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 002	Sample 004
Bisphenol A	<0.1	<0.1
Limit	<0.1	
Conclusion	Pass	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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APPENDIX: Reference Information of Submitted Sample

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



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