

Test Report

No.: CANEC26004685501

Date: Mar 13, 2026

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

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Guangzhou Branch Technical Services Co., Ltd. Guangzhou Branch

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A1	CAN26-0046855-0001.C001	Orange plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A1	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A1	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A1 (1 st)	A1 (2 nd)	A1 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A1		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A1
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A1		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A1
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A1
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A1
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0.5
Sensorial examination taste	2.5	-	0.5
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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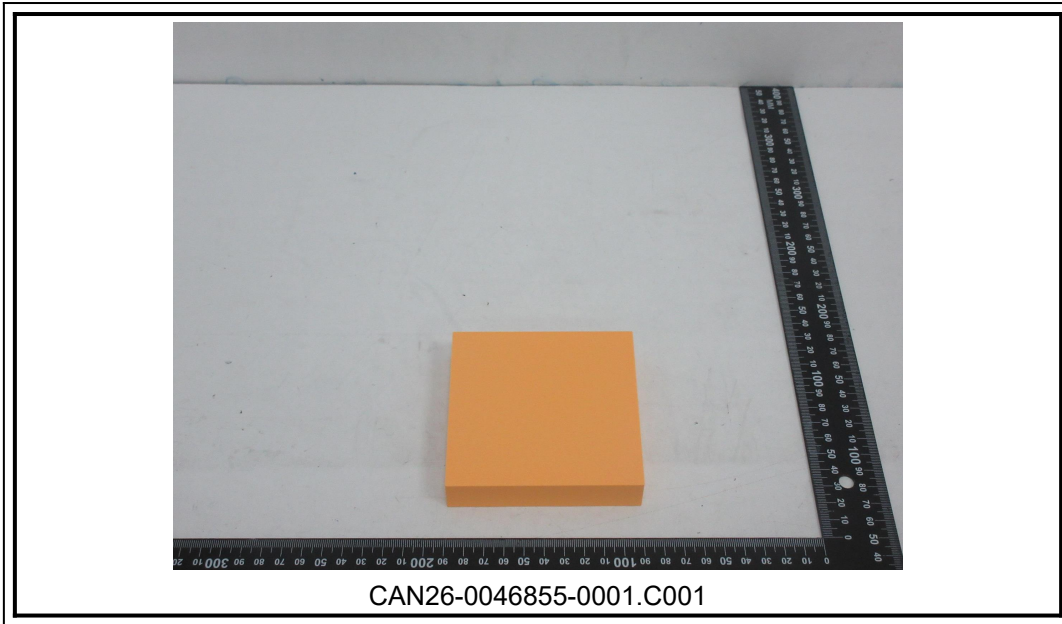
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Test Report

No.: CANEC26004685503

Date: Mar 13, 2026

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



D389AAF3



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Guangzhou Branch Technical Services Co., Ltd. Guangzhou Branch

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A2	CAN26-0046855-0001.C002	Blue plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A2	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

Test Condition				
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A2	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A2 (1 st)	A2 (2 nd)	A2 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A2
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A2		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A2
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment					Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A2
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A2
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	1.0
Sensorial examination taste	2.5	-	1.0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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 Guangzhou Branch, Technical Services Laboratory

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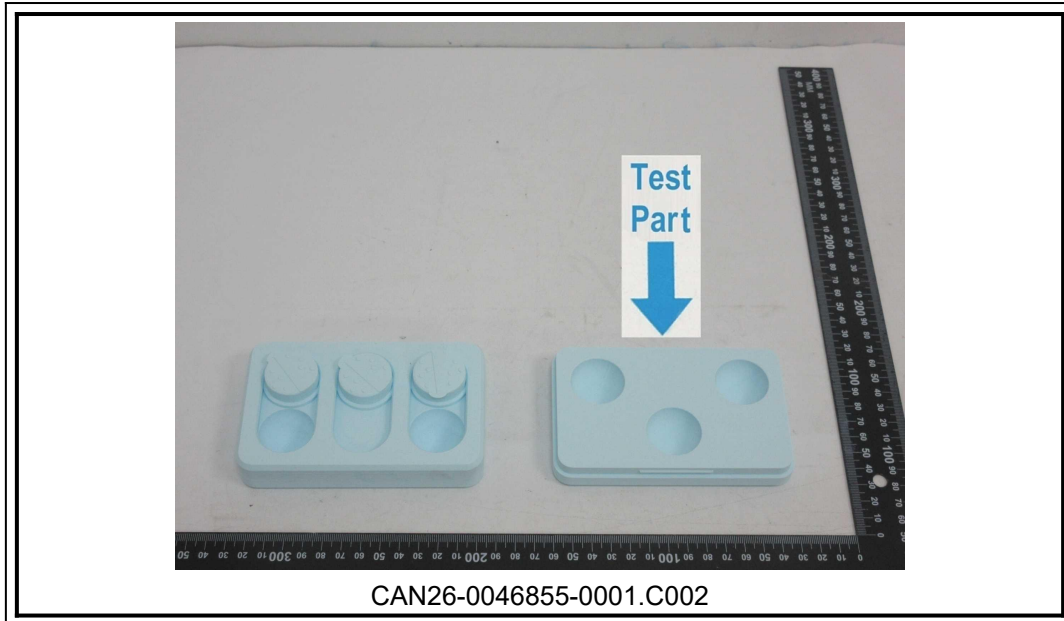
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Sample Photo:



SGS authenticate the photo on original report only
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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A3	CAN26-0046855-0001.C003	White plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A3	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A3	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A3 (1 st)	A3 (2 nd)	A3 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A3
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A3		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A3
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A3		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A3		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A3			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A3
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A3		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A3
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A3
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A3
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0.5
Sensorial examination taste	2.5	-	0.5
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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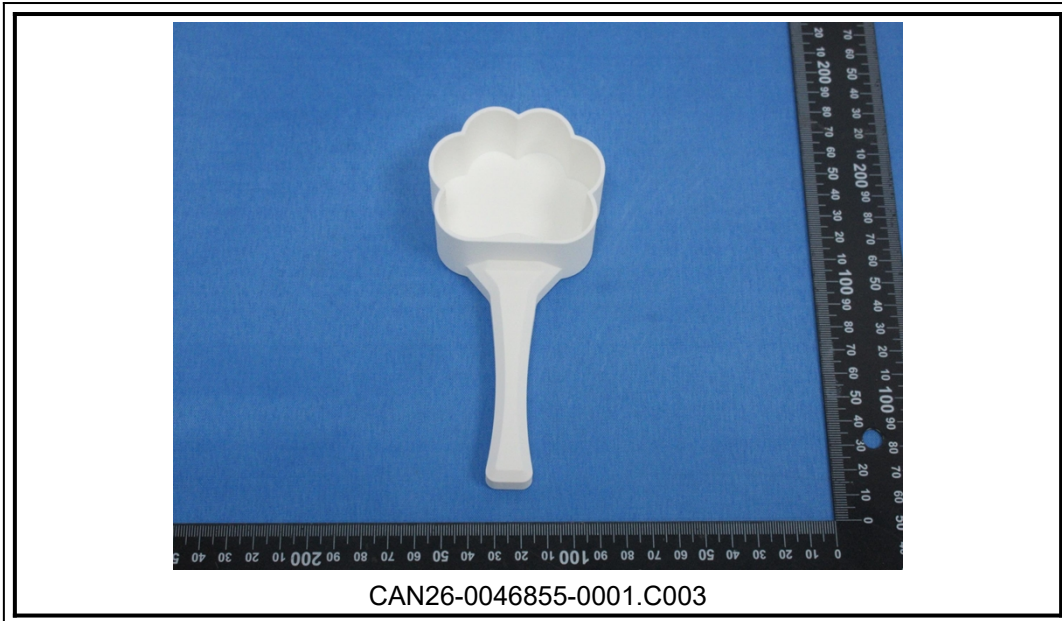
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Sample Photo:



SGS authenticate the photo on original report only
*** End of Report ***



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Guangzhou Branch Technical Services Laboratory

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



EBA2AB4A



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A4	CAN26-0046855-0001.C004	White plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A4	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A4	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A4 (1 st)	A4 (2 nd)	A4 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A4 70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A4		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A4
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A4
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A4		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A4
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment					Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A4
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A4
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



SGS authenticate the photo on original report only
*** End of Report ***



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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A5	CAN26-0046855-0001.C005	Pink plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
 mg/inch² = milligram per square inches
 µg/cm² = microgram per square centimeter
 mg/L = milligram per litre
 mg/kg = milligram per kilogram
- (2) °C = degree Celsius
 °F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A5	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A5	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A5 (1 st)	A5 (2 nd)	A5 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A5
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A5		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A5
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A5		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A5		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A5			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A5
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A5		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A5
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A5
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A5
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0.5
Sensorial examination taste	2.5	-	0.5
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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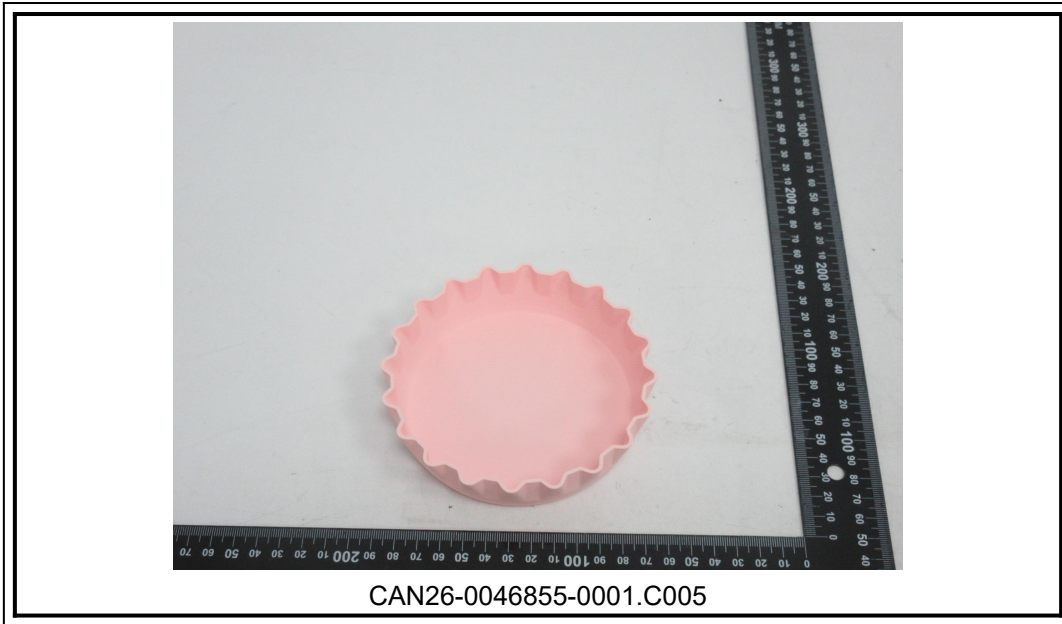
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Sample Photo:



SGS authenticate the photo on original report only
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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



CCF94BA4



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A6	CAN26-0046855-0001.C006	Blue plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A6	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A6	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A6 (1 st)	A6 (2 nd)	A6 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A6 70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A6		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A6

3% Acetic acid (W/V)	70 °C, 2 hrs
----------------------	--------------

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A6		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A6		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A6		
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	-	Compliant		
Comment					Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A6
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A6		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A6
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A6
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A6
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	1.0
Sensorial examination taste	2.5	-	1.0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



SGS authenticate the photo on original report only
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Test Report

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A7	CAN26-0046855-0001.C007	Black plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
 mg/inch² = milligram per square inches
 µg/cm² = microgram per square centimeter
 mg/L = milligram per litre
 mg/kg = milligram per kilogram
- (2) °C = degree Celsius
 °F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A7	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A7	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A7 (1 st)	A7 (2 nd)	A7 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	3.0	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A7
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A7		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A7
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A7		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A7		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A7			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A7
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A7		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A7
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A7
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A7
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



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*** End of Report ***



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Test Report

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A8	CAN26-0046855-0001.C008	White plastic spoon	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
 mg/inch² = milligram per square inches
 µg/cm² = microgram per square centimeter
 mg/L = milligram per litre
 mg/kg = milligram per kilogram
- (2) °C = degree Celsius
 °F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A8	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A8	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A8 (1 st)	A8 (2 nd)	A8 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A8
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A8		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A8
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A8		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A8		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A8			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A8
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A8		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A8
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A8
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A8
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	2.0
Sensorial examination taste	2.5	-	1.0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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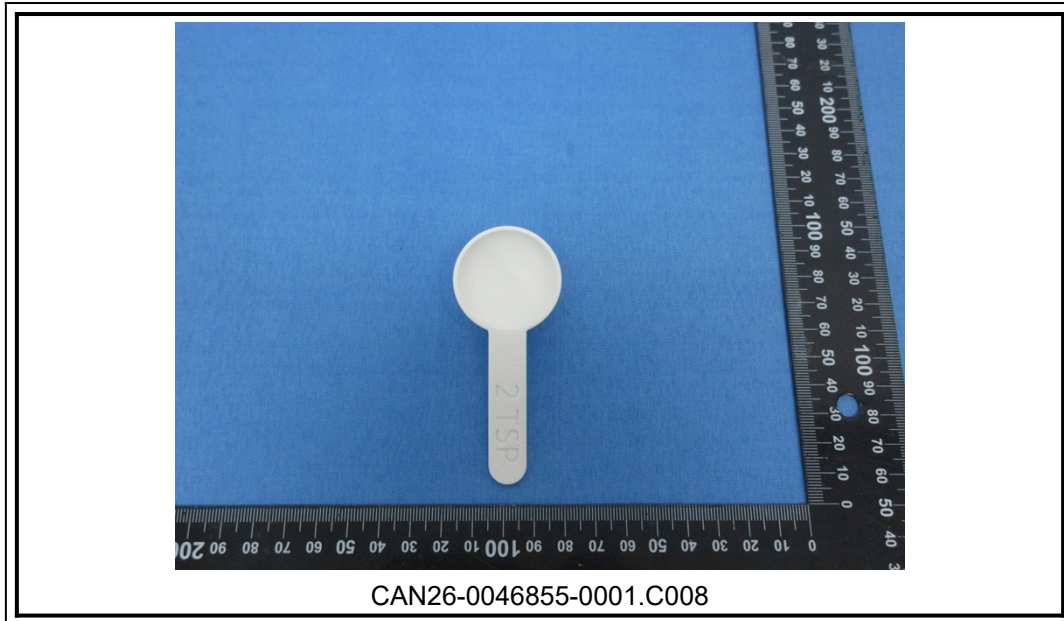
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Sample Photo:



SGS authenticate the photo on original report only
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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A9	CAN26-0046855-0001.C009	Blue plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A9	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A9	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A9 (1 st)	A9 (2 nd)	A9 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	3.5	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A9
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A9		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A9
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A9		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A9		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A9			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A9
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A9		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A9
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment					Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A9
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A9
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



SGS authenticate the photo on original report only
*** End of Report ***



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Test Report

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Date: Mar 13, 2026

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



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Guangzhou Branch

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A10	CAN26-0046855-0001.C010	Black plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A10	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A10	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A10 (1 st)	A10 (2 nd)	A10 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A10 70 °C, 2 hrs
3% Acetic acid (W/V)	

Test Item(s)	Limit	Unit(s)	RL	A10		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A10
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A10		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A10		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A10			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A10
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A10		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A10
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment					Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A10
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A10
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	1.5
Sensorial examination taste	2.5	-	1.0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



SGS authenticate the photo on original report only
*** End of Report ***



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Test Report

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Date: Mar 13, 2026

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A11	CAN26-0046855-0001.C011	White plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A11	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A11	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A11 (1 st)	A11 (2 nd)	A11 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A11 70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A11		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A11
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A11		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A11		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A11			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A11
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A11		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A11
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment	Pass				

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A11
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A11
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0.5
Sensorial examination taste	2.5	-	0.5
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule (w=0) stated in ILAC-G8:09/2019.



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Sample Photo:



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*** End of Report ***



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Test Report

No.: CANEC26004685523

Date: Mar 13, 2026

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Client Name: SHENZHEN TUOZHU TECHNOLOGY CO., LTD

Client Address: ROOM 903, WEST BLOCK, HENGCHANG TECHNOLOGY BUILDING 2228 LINHAI AVENUE, NANSHAN SUB-DISTRICT QIANHAI SHENZHEN-HONG KONG MODERN SERVICE INDUSTRY COOPERATION ZONE SHENZHEN, CHINA

Sample Name: PLA Pure

Client Ref. Information: A19-XX (XX represents any digit)

The above sample(s) and information were provided by the client.

SGS Job No.: SZP26-009521

Sample Receiving Date: Mar 05, 2026

Testing Period: Mar 05, 2026 ~ Mar 13, 2026

Test Requested: Select test(s) as requested by the client.

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

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

	Test Requirement	Conclusion
1	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration	Pass
2	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals	Pass
3	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)	Pass
4	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)	Pass
5	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives	Pass
6	Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test	Pass

Signed for and on behalf of
SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch

Kim Cai

Kim Cai
Approved Signatory

Scan to see the report



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Guangzhou Branch Technical Services Co., Ltd. Guangzhou Branch

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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	A12	CAN26-0046855-0001.C012	Pink plastic	PLA

Remarks:

- (1) mg/dm² = milligram per square decimeter
mg/inch² = milligram per square inches
µg/cm² = microgram per square centimeter
mg/L = milligram per litre
mg/kg = milligram per kilogram
- (2) °C = degree Celsius
°F = degree Fahrenheit
- (3) < = less than
- (4) RL = Reporting Limit
- (5) ND = Not Detected (< RL).

The ratio of surface area to volume

Sample No.	Overall Migration	Specific Migration
A12	10.0 dm ² /kg	6.0 dm ² /kg

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Overall Migration

Test Method: With reference to Commission Regulation (EU) No 10/2011 of 14 January 2011 Annex III and Annex V for selection of condition and EN 1186-1:2002 for selection of test methods; EN 1186-3:2022 Test methods for overall migration in evaporable simulants

	Test Condition			
	10% Ethanol(V/V)	3% Acetic acid (W/V)	95% Ethanol	Isooctane
A12	70 °C, 2 hrs	70 °C, 2 hrs	60 °C, 2 hrs	40 °C, 0.5 hr

Simulant used	Limit	Unit(s)	RL	A12 (1 st)	A12 (2 nd)	A12 (3 rd)	Stability	Comment
10% Ethanol(V/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
3% Acetic acid (W/V)	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
95% Ethanol	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass
Isooctane	10	mg/dm ²	3.0	ND	ND	ND	Compliant	Pass

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351.



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(3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of heavy metals

Test Method: With reference to EN 13130-1:2004, analysis was performed by ICP-OES/ICP-MS.

Simulant	Test Condition
	A12 70 °C, 2 hrs
3% Acetic acid (W/V)	

Test Item(s)	Limit	Unit(s)	RL	A12		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Arsenic(As)	ND	mg/kg	0.01	ND	ND	ND
Cadmium(Cd)	ND	mg/kg	0.002	ND	ND	ND
Chromium(Cr)	ND	mg/kg	0.01	ND	ND	ND
Mercury(Hg)	ND	mg/kg	0.01	ND	ND	ND
Lead(Pb)	ND	mg/kg	0.01	ND	ND	ND
Aluminium(Al)	1	mg/kg	0.2	ND	ND	ND
Barium(Ba)	1	mg/kg	0.2	ND	ND	ND
Cobalt(Co)	0.05	mg/kg	0.01	ND	ND	ND
Copper(Cu)	5	mg/kg	1.0	ND	ND	ND
Iron(Fe)	48	mg/kg	9.6	ND	ND	ND
Lithium(Li)	0.6	mg/kg	0.12	ND	ND	ND
Manganese(Mn)	0.6	mg/kg	0.12	ND	ND	ND
Zinc(Zn)	5	mg/kg	1.0	ND	ND	ND
Nickel(Ni)	0.02	mg/kg	0.01	ND	ND	ND
Antimony(Sb)	0.04	mg/kg	0.01	ND	ND	ND
Europium(Eu)	-	mg/kg	0.01	ND	ND	ND
Gadolinium(Gd)	-	mg/kg	0.01	ND	ND	ND
Lanthanum(La)	-	mg/kg	0.01	ND	ND	ND
Terbium(Tb)	-	mg/kg	0.01	ND	ND	ND
Europium(Eu)+ Gadolinium(Gd)+ Lanthanum(La)+ Terbium(Tb)	0.05	mg/kg	-	ND	ND	ND
Stability	-	-	-	Compliant		
Comment	Pass					

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is “Not Detected”, the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (individual)

Test Method: With reference to EN 13130-1:2004, analysis was performed by LC-MS/MS.

Simulant	Test Condition
	A12

3% Acetic acid (W/V)	70 °C, 2 hrs
----------------------	--------------

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A12		
3% Acetic acid (W/V)							
Migration times					First	Second	Third
2,4,5-Trimethylaniline	137-17-7	ND	mg/kg	0.002	ND	ND	ND
2,4-Toluenediamine(2,4-TDA)	95-80-7	ND	mg/kg	0.002	ND	ND	ND
2-Methoxy-5-methylaniline	120-71-8	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethylbenzidine	119-93-7	ND	mg/kg	0.002	ND	ND	ND
4,4'-Diaminodiphenyl ether	101-80-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedianiline	101-77-9	ND	mg/kg	0.002	ND	ND	ND
4,4'-Methylenedio-toluidine	838-88-0	ND	mg/kg	0.002	ND	ND	ND
4-Aminobiphenyl	92-67-1	ND	mg/kg	0.002	ND	ND	ND
4-Chloroaniline	106-47-8	ND	mg/kg	0.002	ND	ND	ND
4-Chloro-o-toluidine	95-69-2	ND	mg/kg	0.002	ND	ND	ND
4-Methoxy-m-phenylenediamine	615-05-4	ND	mg/kg	0.002	ND	ND	ND
Benzidine	92-87-5	ND	mg/kg	0.002	ND	ND	ND
o-Anisidine	90-04-0	ND	mg/kg	0.002	ND	ND	ND
o-Toluidine	95-53-4	ND	mg/kg	0.002	ND	ND	ND
2-Naphthylamine	91-59-8	ND	mg/kg	0.002	ND	ND	ND
o-Aminoazotoluene	97-56-3	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dichlorobenzidine	91-94-1	ND	mg/kg	0.002	ND	ND	ND
3,3'-Dimethoxybenzidine	119-90-4	ND	mg/kg	0.002	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A12		
4,4'-Methylene-bis-(2-chloro-aniline)	101-14-4	ND	mg/kg	0.002	ND	ND	ND
4,4'-Thiodianiline	139-65-1	ND	mg/kg	0.002	ND	ND	ND
4-Amino azobenzene	60-09-3	ND	mg/kg	0.002	ND	ND	ND
1,3-Phenylenediamine	108-45-2	ND	mg/kg	0.002	ND	ND	ND
2-Amino-4-nitrotoluene	99-55-8	ND	mg/kg	0.002	ND	ND	ND
Primary aromatic amine(other)	-	0.01	mg/kg	-	ND	ND	ND
1,3-Diiminoisoindoline	3468-11-9	-	mg/kg	0.010	ND	ND	ND
3-Anisidine	536-90-3	-	mg/kg	0.002	ND	ND	ND
2-Amino-1-naphthalenesulfonic acid	81-16-3	-	mg/kg	0.005	ND	ND	ND
2-Ethoxyaniline	94-70-2	-	mg/kg	0.005	ND	ND	ND
5-Chloro-2-methoxyaniline	95-03-4	-	mg/kg	0.005	ND	ND	ND
2-Chloraniline	95-51-2	-	mg/kg	0.010	ND	ND	ND
4-Toluidine	106-49-0	-	mg/kg	0.002	ND	ND	ND
1,4-Phenylenediamine	106-50-3	-	mg/kg	0.002	ND	ND	ND
3-Chloroaniline	108-42-9	-	mg/kg	0.010	ND	ND	ND
3-Toluidine	108-44-1	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methoxybenzamide	120-35-4	-	mg/kg	0.002	ND	ND	ND
2-Chloro-4-nitroaniline	121-87-9	-	mg/kg	0.005	ND	ND	ND
4-Chlor-3-methoxyaniline	13726-14-2	-	mg/kg	0.005	ND	ND	ND
4-Ethoxyaniline	156-43-4	-	mg/kg	0.002	ND	ND	ND
3-Amino-4-methylbenzamide	19406-86-1	-	mg/kg	0.002	ND	ND	ND
1,5-Diaminonaphthalene	2243-62-1	-	mg/kg	0.002	ND	ND	ND
4-Aminobenzamide	2835-68-9	-	mg/kg	0.005	ND	ND	ND
Aniline	62-53-3	-	mg/kg	0.002	ND	ND	ND
4-Chlor-2,5-dimethoxyaniline	6358-64-1	-	mg/kg	0.005	ND	ND	ND
2,4,5-Trichloroaniline	636-30-6	-	mg/kg	0.010	ND	ND	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	RL	A12			
5-Amino-6-methylbenzimidazole	67014-36-2	-	mg/kg	0.005	ND	ND	ND	
2,6-Diaminotoluene	823-40-5	-	mg/kg	0.002	ND	ND	ND	
2,6-Dimethylaniline(2,6-DMA)	87-62-7	-	mg/kg	0.002	ND	ND	ND	
4-Aminotoluene-3-sulfonic acid	88-44-8	-	mg/kg	0.005	ND	ND	ND	
1,2-Phenyldiamine	95-54-5	-	mg/kg	0.002	ND	ND	ND	
2,4-Dimethylaniline(2,4-DMA)	95-68-1	-	mg/kg	0.002	ND	ND	ND	
5-Chloro-2-methylaniline	95-79-4	-	mg/kg	0.005	ND	ND	ND	
2,5-Dichloroaniline	95-82-9	-	mg/kg	0.010	ND	ND	ND	
2,4-Dinitroaniline	97-02-9	-	mg/kg	0.005	ND	ND	ND	
2-Methoxy-4-nitroaniline	97-52-9	-	mg/kg	0.005	ND	ND	ND	
p-Anisidine	104-94-9	-	mg/kg	0.002	ND	ND	ND	
Dimethyl aminoterephthalate	5372-81-6	-	mg/kg	0.002	ND	ND	ND	
3,4-Dichloroaniline	95-76-1	-	mg/kg	0.002	ND	ND	ND	
1-Naphthylamine	134-32-7	-	mg/kg	0.002	ND	ND	ND	
2-Aminobiphenyl	90-41-5	-	mg/kg	0.002	ND	ND	ND	
Butyl anthranilate	7756-96-9	-	mg/kg	0.002	ND	ND	ND	
2,4'-Diaminodiphenyl methane	1208-52-2	-	mg/kg	0.002	ND	ND	ND	
2-Amino-5-methylbenzoic acid	2941-78-8	-	mg/kg	0.002	ND	ND	ND	
Stability	-	-	-	-	Compliant			
Comment						Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.



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Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, (EU) No 10/2011 and its amendment (EU) 2025/351 Regulation - Specific migration of primary aromatic amine (total)

Test Method: With reference to EN 13130-1:2004, analysis was performed by UV-Vis.

Simulant	Test Condition
	A12
3% Acetic acid (W/V)	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	RL	A12		
3% Acetic acid (W/V)						
Migration times				First	Second	Third
Specific migration of primary aromatic amine	0.01	mg/kg	0.002	ND	ND	ND
Stability	-	-	-	Compliant		
Comment				Pass		

Notes:

- (1) Test condition & simulant were specified by client.
- (2) For single use articles, the compliance is based on the first migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the first migration result if it is detected without the inclusion of measurement uncertainty.
- (3) For repeated use articles, the compliance is based on the stability trend and the third migration result with measurement uncertainty according to (EU) 2025/351. For substances which limit is "Not Detected", the non-compliance is based on the three migration test results if it is detected without the inclusion of measurement uncertainty.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) 2024/3190 - Bisphenols and bisphenol derivatives

Test Method: With reference to SGS in house method, analysis was performed by LC-MS/MS.

Test Item(s)	CAS No.	Limit	Unit(s)	RL	A12
Bisphenol A (BPA)	80-05-7	ND	µg/kg	1	ND
Bisphenol F (BPF)	620-92-8	ND	µg/kg	1	ND
Bisphenol S (BPS)	80-09-1	ND	µg/kg	1	ND
4,4'-Isobutylethylidenediphenol	6807-17-6	ND	µg/kg	1	ND
Phenolphthalein	77-09-8	ND	µg/kg	1	ND
Bisphenol AF (BPAF)	1478-61-1	ND	µg/kg	1	ND
Tetrabromobisphenol A (TBBPA)	79-94-7	ND	µg/kg	1	ND
Comment					Pass

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004 - Sensorial examination odour and taste test

Test Method: With reference to DIN 10955: 2024.
No. of panelist: 6



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Test Media	Test Condition
	A12
Distilled water	70 °C, 2 hrs

Test Item(s)	Limit	Unit(s)	A12
Area/Volume	-	dm ² /kg	10.0
Sensorial examination odour	2.5	-	0
Sensorial examination taste	2.5	-	0
Comment			Pass

Notes:

Intensity scale (rounded at 0.5):

- 0 – no perceptible difference
- 1 – just perceptible difference
- 2 – slight difference
- 3 – marked difference
- 4 – strong difference

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