

GUANGDONG WONDER TESTING INTERNATIONAL CO., LTD.

TEST REPORT

Report No.: WDX24040205ENR1-2

Applicant: CIXI YANG EN PLASTIC INDUSTRY CO., LTD

Address: NO.435,BEIYUAN ROAD, GREEN
INDUSTRIAL PARK, CHONGSHOU TOWN,
CIXI COUNTY, NINGBO CITY,
ZHEJIANG PROVINCE, CHINA

Date: Apr. 25, 2024



Traceability

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Date: Apr. 25, 2024

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Applicant: CIXI YANG EN PLASTIC INDUSTRY CO., LTD

Address: NO.435,BEIYUAN ROAD, GREEN INDUSTRIAL PARK, CHONGSHOU TOWN, CIXI COUNTY, NINGBO CITY, ZHEJIANG PROVINCE, CHINA

The following information was (were) submitted and identified by client :

Sample Name: PLASTIC CAP/LID

Number of Sample: 2pcs

Factory: CIXI YANG EN PLASTIC INDUSTRY CO., LTD

Factory Address: NO.435,BEIYUAN ROAD, GREEN INDUSTRIAL PARK, CHONGSHOU TOWN, CIXI COUNTY, NINGBO CITY, ZHEJIANG PROVINCE, CHINA

Sample Received Date: Apr. 02, 2024, Apr. 19, 2024

Completed Date: Apr. 24, 2024

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

Test Requested and Conclusion(s):

No.	Test Sample(s)	Standard(s) and Requirement(s)	Conclusion(s)	Signed by
1	Submitted sample	Regulation (EU) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No.10/2011 & (EU) 2020/1245 on plastic materials and articles intended to come into contact with food. - Overall Migration - Specific Migration of Primary Aromatic Amine - Soluble Heavy Metal	PASS	Andy zhu

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Test Result(s):**Overall Migration**

Method: With reference to EN 1186-1:2002&EN 1186-3:2022

Material No.	Test Condition(s)	Migration time(s)	Limit (s) (mg/dm ²)	Result(s) (mg/dm ²)	Conclusion(s)
1	10% Ethanol(v/v), 40℃, 2 hours	1 st	--	<3.0	PASS
	10% Ethanol(v/v), 40℃, 2 hours	2 nd	--	<3.0	
	10% Ethanol(v/v), 40℃, 2 hours	3 rd	10	<3.0	
2	10% Ethanol(v/v), 40℃, 2 hours	1 st	--	<3.0	PASS
	10% Ethanol(v/v), 40℃, 2 hours	2 nd	--	<3.0	
	10% Ethanol(v/v), 40℃, 2 hours	3 rd	10	<3.0	
3 ^R	10% Ethanol(v/v), 40℃, 2 hours	1 st	--	<3.0	PASS
	10% Ethanol(v/v), 40℃, 2 hours	2 nd	--	<3.0	
	10% Ethanol(v/v), 40℃, 2 hours	3 rd	10	<3.0	
4	10% Ethanol(v/v), 40℃, 2 hours	1 st	--	<3.0	PASS
	10% Ethanol(v/v), 40℃, 2 hours	2 nd	--	<3.0	
	10% Ethanol(v/v), 40℃, 2 hours	3 rd	10	<3.0	

Test Result(s):**Specific Migration of Primary Aromatic Amine^{Sn}**

Method: Sample preparation with reference to EN 13130-1:2004, followed by analysis with reference to DIN 55610:1986.

Test Parameter(s)	Limit(s) (mg/kg)	Result(s) (mg/kg)		
		1		
		1 st	2 nd	3 rd
Test Media		3% Acetic acid		
Temperature, °C	--	40.0	40.0	40.0
Contact Time, hour(s)	--	2.0	2.0	2.0
1. Specific migration of Primary Aromatic Amine	≤0.01	<0.01	<0.01	<0.01
2. Specific migration of 2-Anisidine	≤0.002	<0.002	<0.002	<0.002
3. Specific migration of 4,4'-Benzidine	≤0.002	<0.002	<0.002	<0.002
4. Specific migration of 4,4'-Methylene-bis(2-chloroaniline)	≤0.002	<0.002	<0.002	<0.002
5. Specific migration of 4,4'-Diaminodiphenylmethane	≤0.002	<0.002	<0.002	<0.002
6. Specific migration of 4,4'-Oxydianiline	≤0.002	<0.002	<0.002	<0.002
7. Specific migration of 4-Chloroaniline	≤0.002	<0.002	<0.002	<0.002
8. Specific migration of 3,3'-Dimethoxybenzidine	≤0.002	<0.002	<0.002	<0.002
9. Specific migration of 3,3'-Dimethylbenzidine	≤0.002	<0.002	<0.002	<0.002
10. Specific migration of 2-Methoxy-5-methylaniline	≤0.002	<0.002	<0.002	<0.002
11. Specific migration of 2,4,5-Trimethylaniline	≤0.002	<0.002	<0.002	<0.002
12. Specific migration of 4,4'-Thiodianiline	≤0.002	<0.002	<0.002	<0.002
13. Specific migration of 4-Aminoazobenzene	≤0.002	<0.002	<0.002	<0.002
14. Specific migration of 2,4-Diaminoanisole	≤0.002	<0.002	<0.002	<0.002
15. Specific migration of 4,4'-Diamino-3,3'-dimethyldiphenyl methane	≤0.002	<0.002	<0.002	<0.002
16. Specific migration of 2-Naphthylamine	≤0.002	<0.002	<0.002	<0.002
17. Specific migration of 3,3'-Dichlorobenzidine	≤0.002	<0.002	<0.002	<0.002
18. Specific migration of 4-Aminobiphenyl	≤0.002	<0.002	<0.002	<0.002
19. Specific migration of 2-Toluidine	≤0.002	<0.002	<0.002	<0.002
20. Specific migration of 4-Chloro-2-methylaniline	≤0.002	<0.002	<0.002	<0.002
21. Specific migration of 2,4-Diaminotoluene	≤0.002	<0.002	<0.002	<0.002
22. Specific migration of 2-Aminoazotoluene	≤0.002	<0.002	<0.002	<0.002
23. Specific migration of 2-Amino-4-nitrotoluene	≤0.002	<0.002	<0.002	<0.002
24. Specific migration of 1,3-Phenylenediamine	≤0.002	<0.002	<0.002	<0.002
Conclusion(s)		PASS	PASS	PASS

Test Result(s):**Specific Migration of Primary Aromatic Amine^{Sn}**

Method: Sample preparation with reference to EN 13130-1:2004, followed by analysis with reference to DIN 55610:1986.

Test Parameter(s)	Limit(s) (mg/kg)	Result(s) (mg/kg)		
		2		
		1 st	2 nd	3 rd
Test Media		3% Acetic acid		
Temperature, °C	--	40.0	40.0	40.0
Contact Time, hour(s)	--	2.0	2.0	2.0
1. Specific migration of Primary Aromatic Amine	≤0.01	<0.01	<0.01	<0.01
2. Specific migration of 2-Anisidine	≤0.002	<0.002	<0.002	<0.002
3. Specific migration of 4,4'-Benzidine	≤0.002	<0.002	<0.002	<0.002
4. Specific migration of 4,4'-Methylene-bis(2-chloroaniline)	≤0.002	<0.002	<0.002	<0.002
5. Specific migration of 4,4'-Diaminodiphenylmethane	≤0.002	<0.002	<0.002	<0.002
6. Specific migration of 4,4'-Oxydianiline	≤0.002	<0.002	<0.002	<0.002
7. Specific migration of 4-Chloroaniline	≤0.002	<0.002	<0.002	<0.002
8. Specific migration of 3,3'-Dimethoxybenzidine	≤0.002	<0.002	<0.002	<0.002
9. Specific migration of 3,3'-Dimethylbenzidine	≤0.002	<0.002	<0.002	<0.002
10. Specific migration of 2-Methoxy-5-methylaniline	≤0.002	<0.002	<0.002	<0.002
11. Specific migration of 2,4,5-Trimethylaniline	≤0.002	<0.002	<0.002	<0.002
12. Specific migration of 4,4'-Thiodianiline	≤0.002	<0.002	<0.002	<0.002
13. Specific migration of 4-Aminoazobenzene	≤0.002	<0.002	<0.002	<0.002
14. Specific migration of 2,4-Diaminoanisole	≤0.002	<0.002	<0.002	<0.002
15. Specific migration of 4,4'-Diamino-3,3'-dimethyldiphenyl methane	≤0.002	<0.002	<0.002	<0.002
16. Specific migration of 2-Naphthylamine	≤0.002	<0.002	<0.002	<0.002
17. Specific migration of 3,3'-Dichlorobenzidine	≤0.002	<0.002	<0.002	<0.002
18. Specific migration of 4-Aminobiphenyl	≤0.002	<0.002	<0.002	<0.002
19. Specific migration of 2-Toluidine	≤0.002	<0.002	<0.002	<0.002
20. Specific migration of 4-Chloro-2-methylaniline	≤0.002	<0.002	<0.002	<0.002
21. Specific migration of 2,4-Diaminotoluene	≤0.002	<0.002	<0.002	<0.002
22. Specific migration of 2-Aminoazotoluene	≤0.002	<0.002	<0.002	<0.002
23. Specific migration of 2-Amino-4-nitrotoluene	≤0.002	<0.002	<0.002	<0.002
24. Specific migration of 1,3-Phenylenediamine	≤0.002	<0.002	<0.002	<0.002
Conclusion(s)		PASS	PASS	PASS

Test Result(s):
Specific Migration of Primary Aromatic Amine^{Sn}

Method: Sample preparation with reference to EN 13130-1:2004, followed by analysis with reference to DIN 55610:1986.

Test Parameter(s)	Limit(s) (mg/kg)	Result(s) (mg/kg)		
		3		
		1 st	2 nd	3 rd
Test Media		3% Acetic acid		
Temperature, °C	--	40.0	40.0	40.0
Contact Time, hour(s)	--	2.0	2.0	2.0
1. Specific migration of Primary Aromatic Amine	≤0.01	<0.01	<0.01	<0.01
2. Specific migration of 2-Anisidine	≤0.002	<0.002	<0.002	<0.002
3. Specific migration of 4,4'-Benzidine	≤0.002	<0.002	<0.002	<0.002
4. Specific migration of 4,4'-Methylene-bis(2-chloroaniline)	≤0.002	<0.002	<0.002	<0.002
5. Specific migration of 4,4'-Diaminodiphenylmethane	≤0.002	<0.002	<0.002	<0.002
6. Specific migration of 4,4'-Oxydianiline	≤0.002	<0.002	<0.002	<0.002
7. Specific migration of 4-Chloroaniline	≤0.002	<0.002	<0.002	<0.002
8. Specific migration of 3,3'-Dimethoxybenzidine	≤0.002	<0.002	<0.002	<0.002
9. Specific migration of 3,3'-Dimethylbenzidine	≤0.002	<0.002	<0.002	<0.002
10. Specific migration of 2-Methoxy-5-methylaniline	≤0.002	<0.002	<0.002	<0.002
11. Specific migration of 2,4,5-Trimethylaniline	≤0.002	<0.002	<0.002	<0.002
12. Specific migration of 4,4'-Thiodianiline	≤0.002	<0.002	<0.002	<0.002
13. Specific migration of 4-Aminoazobenzene	≤0.002	<0.002	<0.002	<0.002
14. Specific migration of 2,4-Diaminoanisole	≤0.002	<0.002	<0.002	<0.002
15. Specific migration of 4,4'-Diamino-3,3'-dimethyldiphenyl methane	≤0.002	<0.002	<0.002	<0.002
16. Specific migration of 2-Naphthylamine	≤0.002	<0.002	<0.002	<0.002
17. Specific migration of 3,3'-Dichlorobenzidine	≤0.002	<0.002	<0.002	<0.002
18. Specific migration of 4-Aminobiphenyl	≤0.002	<0.002	<0.002	<0.002
19. Specific migration of 2-Toluidine	≤0.002	<0.002	<0.002	<0.002
20. Specific migration of 4-Chloro-2-methylaniline	≤0.002	<0.002	<0.002	<0.002
21. Specific migration of 2,4-Diaminotoluene	≤0.002	<0.002	<0.002	<0.002
22. Specific migration of 2-Aminoazotoluene	≤0.002	<0.002	<0.002	<0.002
23. Specific migration of 2-Amino-4-nitrotoluene	≤0.002	<0.002	<0.002	<0.002
24. Specific migration of 1,3-Phenylenediamine	≤0.002	<0.002	<0.002	<0.002
Conclusion(s)		PASS	PASS	PASS

Test Result(s):**Soluble Heavy Metalⁿ**

Method: Preparation in 3% Acetic acid(w/v) at 40℃ for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometry(ICP-MS).

Test Element(s)	Limit (s) (mg/kg)	Result(s) (mg/kg)		
		1		
		1 st	2 nd	3 rd
Aluminium(Al)	1.0	<0.1	<0.1	<0.1
Antimony(Sb)	0.04	<0.01	<0.01	<0.01
Arsenic(As)	0.002	<0.002	<0.002	<0.002
Barium(Ba)	1.0	<0.1	<0.1	<0.1
Cadmium(Cd)	0.002	<0.002	<0.002	<0.002
Chromium (Cr)	0.02	<0.01	<0.01	<0.01
Cobalt (Co)	0.05	<0.01	<0.01	<0.01
Copper (Cu)	5.0	<0.1	<0.1	<0.1
Europium (Eu)	0.05	<0.01	<0.01	<0.01
Gadolinium (Gd)	0.05	<0.01	<0.01	<0.01
Iron (Fe)	48	<0.5	<0.5	<0.5
Lanthanum (La)	0.05	<0.01	<0.01	<0.01
Lead (Pb)	0.02	<0.01	<0.01	<0.01
Lithium (Li)	0.6	<0.1	<0.1	<0.1
Manganese (Mn)	0.6	<0.1	<0.1	<0.1
Mercury (Hg)	0.002	<0.002	<0.002	<0.002
Nickel (Ni)	0.02	<0.01	<0.01	<0.01
Terbium (Tb)	0.05	<0.01	<0.01	<0.01
Zinc (Zn)	5.0	<0.1	<0.1	<0.1
Conclusion(s)		PASS	PASS	PASS

Test Result(s):**Soluble Heavy Metalⁿ**

Method: Preparation in 3% Acetic acid(w/v) at 40℃ for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometry(ICP-MS).

Test Element(s)	Limit (s) (mg/kg)	Result(s) (mg/kg)		
		2		
		1 st	2 nd	3 rd
Aluminium(Al)	1.0	<0.1	<0.1	<0.1
Antimony(Sb)	0.04	<0.01	<0.01	<0.01
Arsenic(As)	0.002	<0.002	<0.002	<0.002
Barium(Ba)	1.0	<0.1	<0.1	<0.1
Cadmium(Cd)	0.002	<0.002	<0.002	<0.002
Chromium (Cr)	0.02	<0.01	<0.01	<0.01
Cobalt (Co)	0.05	<0.01	<0.01	<0.01
Copper (Cu)	5.0	<0.1	<0.1	<0.1
Europium (Eu)	0.05	<0.01	<0.01	<0.01
Gadolinium (Gd)	0.05	<0.01	<0.01	<0.01
Iron (Fe)	48	<0.5	<0.5	<0.5
Lanthanum (La)	0.05	<0.01	<0.01	<0.01
Lead (Pb)	0.02	<0.01	<0.01	<0.01
Lithium (Li)	0.6	<0.1	<0.1	<0.1
Manganese (Mn)	0.6	<0.1	<0.1	<0.1
Mercury (Hg)	0.002	<0.002	<0.002	<0.002
Nickel (Ni)	0.02	<0.01	<0.01	<0.01
Terbium (Tb)	0.05	<0.01	<0.01	<0.01
Zinc (Zn)	5.0	<0.1	<0.1	<0.1
Conclusion(s)		PASS	PASS	PASS

Test Result(s):**Soluble Heavy Metalⁿ**

Method: Preparation in 3% Acetic acid(w/v) at 40℃ for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometry(ICP-MS).

Test Element(s)	Limit (s) (mg/kg)	Result(s) (mg/kg)		
		3 ^R		
		1 st	2 nd	3 rd
Aluminium(Al)	1.0	<0.1	<0.1	<0.1
Antimony(Sb)	0.04	<0.01	<0.01	<0.01
Arsenic(As)	0.002	<0.002	<0.002	<0.002
Barium(Ba)	1.0	<0.1	<0.1	<0.1
Cadmium(Cd)	0.002	<0.002	<0.002	<0.002
Chromium (Cr)	0.02	<0.01	<0.01	<0.01
Cobalt (Co)	0.05	<0.01	<0.01	<0.01
Copper (Cu)	5.0	<0.1	<0.1	<0.1
Europium (Eu)	0.05	<0.01	<0.01	<0.01
Gadolinium (Gd)	0.05	<0.01	<0.01	<0.01
Iron (Fe)	48	<0.5	<0.5	<0.5
Lanthanum (La)	0.05	<0.01	<0.01	<0.01
Lead (Pb)	0.02	<0.01	<0.01	<0.01
Lithium (Li)	0.6	<0.1	<0.1	<0.1
Manganese (Mn)	0.6	<0.1	<0.1	<0.1
Mercury (Hg)	0.002	<0.002	<0.002	<0.002
Nickel (Ni)	0.02	<0.01	<0.01	<0.01
Terbium (Tb)	0.05	<0.01	<0.01	<0.01
Zinc (Zn)	5.0	<0.1	<0.1	<0.1
Conclusion(s)		PASS	PASS	PASS

Test Result(s):**Soluble Heavy Metalⁿ**

Method: Preparation in 3% Acetic acid(w/v) at 40℃ for 2 hours, was analyzed by Inductively Coupled Plasma Mass Spectrometry(ICP-MS).

Test Element(s)	Limit (s) (mg/kg)	Result(s) (mg/kg)		
		4		
		1 st	2 nd	3 rd
Aluminium(Al)	1.0	<0.1	<0.1	<0.1
Antimony(Sb)	0.04	<0.01	<0.01	<0.01
Arsenic(As)	0.002	<0.002	<0.002	<0.002
Barium(Ba)	1.0	<0.1	<0.1	<0.1
Cadmium(Cd)	0.002	<0.002	<0.002	<0.002
Chromium (Cr)	0.02	<0.01	<0.01	<0.01
Cobalt (Co)	0.05	<0.01	<0.01	<0.01
Copper (Cu)	5.0	<0.1	<0.1	<0.1
Europium (Eu)	0.05	<0.01	<0.01	<0.01
Gadolinium (Gd)	0.05	<0.01	<0.01	<0.01
Iron (Fe)	48	<0.5	<0.5	<0.5
Lanthanum (La)	0.05	<0.01	<0.01	<0.01
Lead (Pb)	0.02	<0.01	<0.01	<0.01
Lithium (Li)	0.6	<0.1	<0.1	<0.1
Manganese (Mn)	0.6	<0.1	<0.1	<0.1
Mercury (Hg)	0.002	<0.002	<0.002	<0.002
Nickel (Ni)	0.02	<0.01	<0.01	<0.01
Terbium (Tb)	0.05	<0.01	<0.01	<0.01
Zinc (Zn)	5.0	<0.1	<0.1	<0.1
Conclusion(s)		PASS	PASS	PASS

- Remark :**
1. mg/kg = milligram per kilogram (ppm).
 2. mg/dm² = milligram per square decimetre.
 3. "--" = No requirement.
 4. Test condition & simulant were specified by client.
 5. °C = degree centigrade.
 6. "S" = The test item is subcontracted item.
 7. "n" = The test item is not accredited by CNAS. The result/conclusion is for reference only.
 8. As per client's request, only the appointed points and items have been tested.
 9. "R" = This sample is received on Apr. 19, 2024.
 10. WDX24040205EN-2 is replaced by this report.

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Test Material List

Material No.	Description(s)	Location(s)	Material (claimed by client)
1	Black plastic	Lid	PP
2	White plastic	Nozzle	PE
3	Brown plastic	Lid	PP
4	Transparent plastic	Loop	PET

Photo(s) of Sample(s):

End of Report

Report Remark

1. The company guarantees the scientificity, impartiality and accuracy, is responsible for test data, and keeps confidential for the samples and technical data provided.
2. The information of the samples submitted for inspection is provided by applicant, and the company is not responsible for its authenticity or integrity.
3. The results shown in this report refer only to the sample(s) submitted.
4. This report is invalid without signature of approver, is invalid if not affixed with Authorized Stamp of Test and Paging Seal. The data/results in reports without an CMA stamp are not in the accredited scope of CMA cannot be as domestic social impartiality proof data. It can only used for research and development, teaching, internal quality control, and only for internal reference.
5. Any unauthorized reproduced in part, Any way of piracy, alteration forgery of this report is unlawful.
6. If there are any questions about the report, please contact us.
7. Any dispute of this report must be raised to the center within 10 workdays since the date of receipt, or it will not be accepted.
8. For samples with unstable performance, re-inspection will not be accepted.

CONTACT US

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