

Test Report No.: 244461040c 001

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Client: XIAMEN MODERN DELTA LTD.
Jinxing Road No.61-69, Hubin North Road, Xiamen 361012, P.R.China

Test item(s): Evorie wide neck feeding bottle teat

Identification / Model No(s): EB-100/EB-101/EB-102/EB-103/EB-105

Sample obtaining method: Sending by customer

Condition at delivery: Test item complete and undamaged.

Sample Receiving date: 2022-11-02

Testing Period: No

Place of testing: Chemical laboratory Shanghai, Toys laboratory Shanghai

Test specification:

Performed parameter(s) for the compliance with the following regulations concerning materials in contact with foodstuff:

- Regulation (EC) No 1935/2004

Volatile compounds content	PASS
N-Nitrosamines and N-Nitrosatable substances release	PASS
Formaldehyde release	PASS
EN 14350:2020 Child care articles - Drinking equipment - Safety requirements and test methods -Mechanical requirements and tests	PASS
EN 14350:2020 Child care articles - Drinking equipment - Safety requirements and test methods -Clause 8.6 Migration of certain elements	PASS

Other Information:

Country of Origin: China
Report Reference No: 244461040a 001

For and on behalf of TÜV Rheinland (Shanghai) Co., Ltd.



Test conclusion:

PASS

2022-12-06

Date

Amy Zhao / Technical Manager

Neo Yang / Assistant Manager

Name / Position

Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.

This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.

"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.

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Indication: Food contact
Product: Commodity, contact with foodstuff

Description of test specimen

Item
3 Evorie wide neck feeding bottle teat

1. Material List:

Sample No.	Material	Color	Location	Refer
3	Silicone	Translucent	Evorie wide neck feeding bottle teat	244461040a 001 1D

Remark:

According to client's information food contact part is produced of same material as 244461040a 001 1D. Tests results refer to 244461040a 001 as indicated.

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2. Overall Results:

Test No.	Tested Item	Conclusion
1	Sensorial examination	Pass
2	Global Migration from Silicone	Pass
3	Volatile compounds content	Pass
4	N-Nitrosamines and N-Nitrosatable substances release	Pass
5	Formaldehyde release	Pass
6	EN 14350:2020 Child care articles - Drinking equipment - Safety requirements and test methods - Mechanical requirements and tests	Pass
7	EN 14350:2020 Child care articles - Drinking equipment - Safety requirements and test methods - Clause 8.6 Migration of certain elements	Pass

3. Results

3.1 Sensorial examination

Test method: It is examined to the extent of food simulant being used, which comes into contact with the product, undergoes detectable changes in taste and smell.

For this purpose, the food simulant was stored in the product under the below mentioned time and temperature. Afterwards, the food simulant was examined by an appropriate number of tasters with regard to any divergence in smell and taste. Another test sample, which was used as a reference, was treated by the same way except that it had no contact with the product to be tested.

Before testing, the product had been cleaned according to the product's instruction manual or in the absence of such manual, by normal household cleaning.

The test is carried out on the basis of ISO 13302 by paired comparison test:

- Evaluation scheme:
- 0 = No discernible deviation
 - 1 = Barely discernible deviation
 - 2 = Weak deviation
 - 3 = Clear deviation
 - 4 = Strong deviation
 - Limit: 3 (failed)

The following food simulants and conditions were applied:

Food simulant	Test duration / Temperature
Water	2 hour(s) / 70 °C

Test No.:	1^
Sample No.:	3
Parameter:	Result
Transfer of Smell:	0
Transfer of Taste:	1

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3.2 Global Migration from Silicone

Test method: The migratory behaviour is examined with reference to Chapter V, Article 18 of Commission regulation 10/2011 and its amendments. Deviating to the regulations the following tests were performed as orientating single tests.

Limit: Resolution AP (2004) 5 on silicones used for food contact applications

The following food simulants and conditions were applied:

Food simulant	Test duration / Temperature
Acetic acid 3 %	2 hour(s) / 70 °C
Ethanol 50 %	2 hour(s) / 70 °C

Test No.:	1^		
Sample No.:	3		
Parameter	Unit	Result	Limit
Acetic acid 3 %	mg/dm ²	3	10
Ethanol 50 %	mg/dm ²	5	10

Abbreviations:

mg/dm² = Milligram per square decimetre

< = Less than

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3.3 Volatile compounds content

Test Method: EN 14350:2020 Clause 8.4

Test result:

Test No.:	1^			
Material No.:	3			
Parameter	Unit	RL	Result	Limit
Volatile compounds content [#]	%	0.1	< RL	0.5

Abbreviation:

- < = Less than
- RL = Reporting Limit
- % = percent

Remark:

Results for volatile compounds content have been adjusted with analytical tolerances of 0.3% if the condition stated in EN 14350:2020 clause 8.4 is fulfilled.

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3.4 N-Nitrosamines and N-Nitrosatable substances release

Test method: EN 14350:2020 Clause 8.5; with reference to EN 12868:2017

Test result:

Test No.			1 [^]					
Material No.			3					
Test Parameter	CAS No.	Unit	Migratable N-Nitrosamines			Migratable N-Nitrosatable Substances		
			RL	Requirement	Test result	RL	Requirement	Test result
NDMA	62-75-9	mg/kg	0.001	--	< RL	0.001	--	< RL
NDEA	55-18-5	mg/kg	0.001	--	< RL	0.001	--	< RL
NDPA	621-64-7	mg/kg	0.001	--	< RL	0.001	--	< RL
NDiBA	997-95-5	mg/kg	0.001	--	< RL	0.001	--	< RL
NDBA	924-16-3	mg/kg	0.001	--	< RL	0.001	--	< RL
NPIP	100-75-4	mg/kg	0.001	--	< RL	0.001	--	< RL
NPYR	930-55-2	mg/kg	0.001	--	< RL	0.001	--	< RL
NMOR	59-89-2	mg/kg	0.001	--	< RL	0.001	--	< RL
NEPhA	612-64-6	mg/kg	0.005	--	< RL	0.005	--	< RL
NMPhA	614-00-6	mg/kg	0.005	--	< RL	0.005	--	< RL
NDiNA	1207995-62-7	mg/kg	0.005	--	< RL	0.005	--	< RL
NDBzA	5336-53-8	mg/kg	0.005	--	< RL	0.005	--	< RL
Total [#]	--	mg/kg	0.005	0.01	< RL	0.005	0.1	< RL
Conclusion	--	--	Pass			Pass		

Abbreviation:

< = Less than

RL = Reporting Limit

mg/kg = milligram per kilogram

Remark:

- * List of Migratable N-Nitrosamines and Migratable N-Nitrosatable Substances.

Parameter	Abbreviation
N-nitrosodimethylamine	NDMA
N-nitrosodiethylamine	NDEA
N-nitrosodipropylamine	NDPA
N-nitrosodiisobutylamine	NDiBA
N-nitrosodibutylamine	NDBA
N-nitrosopiperidine	NPIP
N-nitrosopyrrolidine	NPYR
N-nitrosomorpholine	NMOR
N-nitrosoethylphenylamine	NEPhA
N-nitrosomethylphenylamine	NMPhA
N-nitrosodiisononylamine	NDiNA
N-nitrosodibenzylamine	NDBzA

- ** Single components with an amount of less than the detection limit were not considered by the calculation of the sum. In the case of all compounds were not detected, the results is stated <RL.
- # Results for total N-nitrosatables substances or N-nitrosamines have been adjusted with analytical tolerances if the condition stated in EN 12868:2017 clause 11.1 is fulfilled:
Analytical tolerance for the total quantity of N-nitrosamines: 0.01 mg/kg.
Analytical tolerance for the total quantity of N-nitrosatable substances: 0.1 mg/kg.

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3.5 Formaldehyde release

Test Method: EN 14350:2020 Clause 8.7; with reference to EN 71-11:2005

Test Result :

				Test No.	1 [^]
				Material No.:	3
Parameter	CAS No.	Unit	RL	Requirement	Result
Formaldehyde	50-00-0	mg/l	0.2	0.5	< RL
Conclusion					PASS

Abbreviation:

- < = Less than
- RL = Reporting Limit
- mg/l = milligram per liter

[^] Test results refer to 244461040a 001

4. EN 14350:2020 Child care articles - Drinking equipment - Safety requirements and test methods -Mechanical requirements and tests

Test result:

Test No:	T001
Material No:	3
6 Construction and mechanical properties - General and sample preparation	
6.4 Boiling	N.C. *A
7 Construction and mechanical requirements and tests	
7.2 Decoration, inscription and decals	N.C. *A
7.3 Visual and tactile examination	N.C. *A
7.4 Small parts	N.C. *A
7.5 Additional requirements for sealing discs	N.C. *A
7.6 Requirements and tests for containers	N.C. *A
7.7 Requirements and tests for drinking accessories	PASS
7.8 Protective covers	N.C. *A
7.9 Handles and clips	N.C. *A
7.10 Finger traps	N.C. *A
7.11 Protruding parts	N.C. *A
7.12 Cords or loops	N.C. *A
9 Consumer packaging	PASS
10 Product information	
10.1 General	PASS
10.2 Purchase information	PASS
10.3 Warnings	PASS
10.4 Instructions for use	PASS
10.5 Supply chain information for products that contain vulcanised rubber	PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

Remark:

- A As per client's request, only clause 7.7: requirements and tested for drinking accessories, clause 9: consumer packaging, clause 10: product information of EN14350 was tested.

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5. EN 14350:2020 Child care articles - Drinking equipment - Safety requirements and test methods - Clause 8.6 Migration of certain elements

Test Method: EN 14350:2020 Clause 8.6, with reference to EN 71-3:2019

Test Result:

			Test No.	T001
			Material No.	3
Test Parameter	Unit	RL	Regulatory Requirement	Result
Aluminium (Al)	mg/kg	10	6000	< RL
Antimony (Sb)	mg/kg	5	120	< RL
Arsenic (As)	mg/kg	5	10	< RL
Barium (Ba)	mg/kg	2.5	4000	< RL
Boron (B)	mg/kg	10	3200	< RL
Cadmium (Cd)	mg/kg	1	3.6	< RL
Chromium III (Cr(III))	mg/kg	10	100	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.002#	< RL
Cobalt (Co)	mg/kg	2.5	2.8	< RL
Copper (Cu)	mg/kg	2.5	1660	< RL
Lead (Pb)	mg/kg	2.5	5.0	< RL
Manganese (Mn)	mg/kg	2.5	600	< RL
Mercury (Hg)	mg/kg	2.5	20	< RL
Nickel (Ni)	mg/kg	2.5	56	< RL
Selenium (Se)	mg/kg	10	100	< RL
Strontium (Sr)	mg/kg	2.5	12000	< RL
Tin (Sn)	mg/kg	0.5	40000	< RL
Organic Tin [^]	mg/kg	0.2	2.5	--
Zinc (Zn)	mg/kg	10	10000	< RL

Abbreviation: < less than

RL = Reporting Limit

mg/kg denotes milligram per kilogram

[^] denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (0.72 mg/kg)

According to EN 14350:2020, the limit of Cr(VI) is 0.002 mg/kg. However, the technical specificities were considered and whenever the Cr(VI) level measured in the sample is below the Limit of Quantification of the valid version of EN 71-3, the sample is to be considered passed.

Remark:

* Cr(VI) content has been performed with reference to EN 71-3:2019, Annex F (analyzed by LC-ICP-MS or IC-ICP-MS/MS). Cr(III) content was confirmed by calculation.

6. Sample picture(s):



Item 3

尺寸: 52*52*55mm



Packaging 1

The packaging was provided by client.



Sample 3

尺寸: 52*52*55mm



Packaging 2

The packaging was provided by client.

尺寸:52*52*55mm



Packaging 3

The packaging was provided by client.

尺寸:52*52*55mm



Packaging 4

The packaging was provided by client.

尺寸:52*52*55mm



Packaging 5

The packaging was provided by client.

尺寸:120*135mm



Instructions

The instructions were provided by client.



