

Test Report

No.: XMHL2006002728CW

Date: Sep 16, 2020

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XIAMEN MODERN DELTA LTD
JINXING ROAD NO.61-69, HUBIN NORTH ROAD, XIAMEN 361012, CHINA

Sample Description : TRITAN 200ML STRAW WATER BOTTLE
Client Reference Information : 200ML
Manufacturer : XIAMEN MODERN DELTA LTD
Country of Origin : CHINA

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

Sample Receiving Date : Jun 02, 2020
Test Performing Date : Jun 02, 2020 to Sep 16, 2020
Test Performed : Selected test(s) as requested by applicant
Test Result(s) : For further details, please refer to the following page(s)

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



Beck Hong
Authorized Signatory



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Part 1 SGS Ref No.is GZHL2006033289IP. This test was subcontracted to Guangzhou Branch, SGS-CSTC Co., Ltd.

Test Requested	Result
EN 14350-1:2004	PASS

Test Conducted: Based on EN 14350-1:2004 Child use and care articles – Drinking equipment – Part 1: General and mechanical requirements and tests

Number of Tested Sample: 5 Pieces

Test Results: Details shown as following table

Clause	Test Items	Result
5	Requirements	
5.1	General	PASS
5.2	Visual and tactile examination	PASS
5.3	Small parts	PASS
5.4	Volume	
5.4.1	Volumetric labelling	
5.4.1.1	All feeding bottles, but not necessarily drinking cups, shall be marked with graduations at least in millilitres.	NA
5.4.1.2	Feeding bottles	NA
5.4.1.3	Drinking cups	PASS
5.4.2	Volumetric accuracy	PASS
5.5	Resistance to tearing	NA
5.6	Additional requirements for re-usable products	
5.6.1	Resistance to boiling water	PASS
5.6.2	Print adhesion of markings and decorations	PASS
5.6.3	Thermal shock	PASS
5.7	Additional requirement for sealing discs	NA
5.8	Requirements for matched components	
5.8.1	Includes protrusions	NA
5.8.2	Includes straws	NA
5.9	Requirements for protrusions	NA
5.10	Requirements for straws	NA



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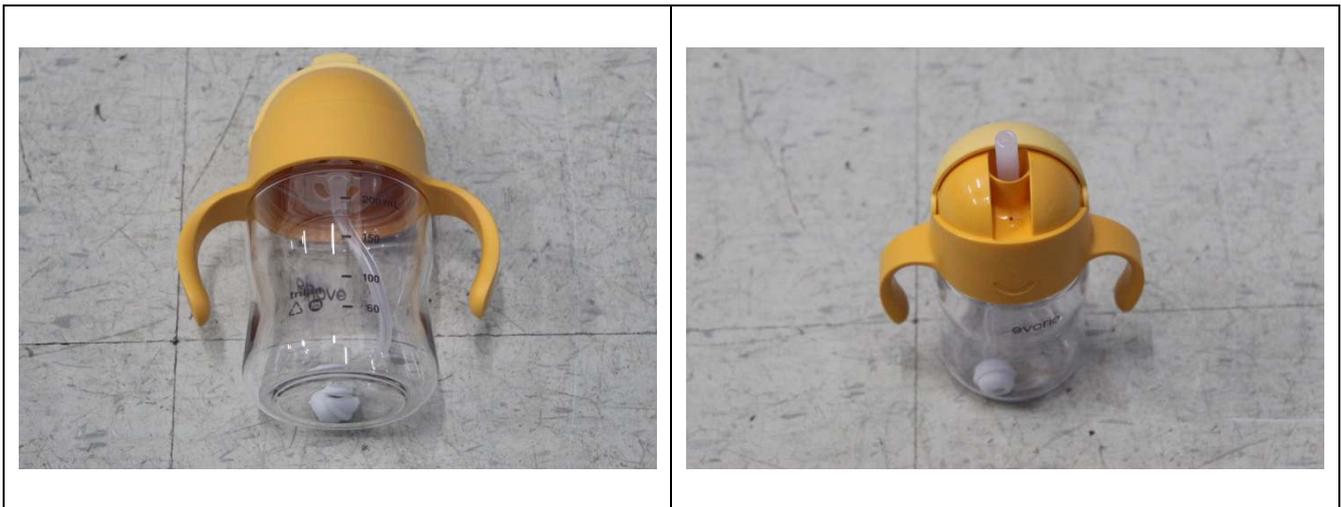
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7	Consumer packaging	PASS
8	Product information	
8.1	General	PASS
8.2	Purchase information	PASS
8.3	Instructions for use	PASS

Remarks:

1. NA = Not applicable.
2. Only English version of product information was evaluated. All product information shall be provided in the official language(s) of the country where the product is sold.
3. The latest version of EN 14350 is EN 14350:2020, which has superseded EN 14350-1:2004 and EN 14350-2:2004. EN 14350:2020 shall be given the status of a national standard at the latest by December 2020, and conflicting national standards shall be withdrawn at the latest by June 2021.

Sample photos(s):



Part 2 SGS Ref No. is CANHG2008796301. This test was subcontracted to Guangzhou Branch, SGS-CSTC Co., Ltd.



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Result Summary :

Test Requested	Conclusion
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– Overall migration	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004–Sensorial examination odour and taste test	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Heavy Metal	PASS
EN 14350 2:2004 –Migration of certain elements	PASS
Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Commission Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) No 10/2011-Total Content of Bisphenol A	PASS

Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description	Material (claimed by the client)
SN1	CAN20-087963.001	Green plastic lid	PP
SN2	CAN20-087963.002	Blue plastic lid	PP
SN3	CAN20-087963.003	Yellow plastic lid	PP
SN4	CAN20-087963.004	Transparent plastic bottle(inner)	Tritan
SN5	CAN20-087963.005	Transparent plastic bottle w/ red printing	Tritan

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments– 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; or EN 1186-3:2002 aqueous food simulants by total immersion method; or EN 1186-9:2002 aqueous food simulants by article filling method; or EN1186-2:2002 olive oil by total immersion method;



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<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 001</u> <u>Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
Rectified Olive Oil	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 002</u> <u>Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
Rectified Olive Oil	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 003</u> <u>Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
Rectified Olive Oil	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS

<u>Simulant Used</u>	<u>Time</u>	<u>Temperature</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Result of 004</u> <u>Overall Migration</u>	<u>Comment</u>
3% Acetic Acid (W/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
10% Ethanol (V/V) Aqueous Solution	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS
Rectified Olive Oil	2.0hr(s)	70°C	60mg/kg	<20mg/kg	PASS

Notes :

1. mg/dm² = milligram per square decimeter
mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. Analytical tolerance of aqueous simulants is 2mg/dm² or 12mg/kg
4. Analytical tolerance of fatty food simulants is 3mg/dm² or 20mg/kg
5. Report the third migration result

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004



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Sensorial examination odour and taste test

Test Method : With reference to DIN10955:2004,direct contact method.
No.of panelist:6

<u>Test Item(s)</u>	<u>Limit</u>	<u>001</u>	<u>002</u>	<u>003</u>
Test media water	-	Distilled water	Distilled water	Distilled
Test Temperature (°C)	-	70	70	70
Test time (hr)	-	2	2	2
Sensorial examination odour (Point scale)	2.5	0.0	0.0	0.0
Sensorial examination taste (Point scale)	2.5	0.0	0.0	0.0
Comment		PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>004</u>
Test media	-	Distilled water
Test Temperature (°C)	-	70
Test time (hr)	-	2
Sensorial examination odour (Point scale)	2.5	0.0
Sensorial examination taste (Point scale)	2.5	0.0
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

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments-Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)

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 13130-1:2004 for selection of test method analysis was performed by GC-MS.



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Sample 004

Simulant Used : 3% Acetic acid (W/V) aqueous solution
 Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	9.1
Specific migration of 2,2,4,4-Tetramethyl-1,3-cyclobutanediol(TMCD)	5	mg/kg	0.5	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND= Not Detected(less than MDL)

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004, Commission Regulation (EU) No 10/2011 of 14 January 2011 with amendments–Specific Migration of Heavy Metal

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 EN13130-1:2004 for selection of test method, analysis was performed by ICP-OES.



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Sample 001

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
 Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	28
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment				PASS

Sample 002

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution
 Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	28
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND
Comment				PASS



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Sample 003

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	28
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND

Comment

PASS

Sample 004

Simulant Used : 3% Acetic Acid (W/V) Aqueous Solution

Test Condition : 70°C 2.0hr(s)

<u>Test Item(s)</u>	<u>Max. Permissible</u> <u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>Test result</u>
Migration times	-	-	-	3rd
Area/Volume	-	dm ² /kg	-	9.1
Barium	1	mg/kg	0.25	ND
Cobalt	0.05	mg/kg	0.01	ND
Copper	5	mg/kg	0.25	ND
Iron	48	mg/kg	0.25	ND
Lithium	0.6	mg/kg	0.5	ND
Manganese	0.6	mg/kg	0.25	ND
Zinc	5	mg/kg	0.5	ND
Aluminum	1	mg/kg	0.1	ND
Nickel	0.02	mg/kg	0.01	ND

Comment

PASS



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Notes :

1. mg/kg = milligram per kilogram of foodstuff in contact with
2. °C = degree Celsius
3. MDL=Method Detection Limit
4. ND = Not Detected(less than MDL)

EN 14350 2:2004 –Migration of certain elements

Test Method : With reference to EN14350-2: 2004, Clause 5.2,analysis was performed by ICP-OES.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Lead (Pb)	25	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	15	mg/kg	5	ND	ND	ND
Soluble Arsenic (As)	10	mg/kg	5	ND	ND	ND
Soluble Barium (Ba)	100	mg/kg	10	ND	ND	ND
Soluble Cadmium (Cd)	20	mg/kg	5	ND	ND	ND
Soluble Chromium (Cr)	10	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	10	mg/kg	5	ND	ND	ND
Soluble Selenium (Se)	100	mg/kg	10	ND	ND	ND
Comment				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>005</u>
Soluble Lead (Pb)	25	mg/kg	5	ND
Soluble Antimony (Sb)	15	mg/kg	5	ND
Soluble Arsenic (As)	10	mg/kg	5	ND
Soluble Barium (Ba)	100	mg/kg	10	ND
Soluble Cadmium (Cd)	20	mg/kg	5	ND
Soluble Chromium (Cr)	10	mg/kg	5	ND
Soluble Mercury (Hg)	10	mg/kg	5	ND
Soluble Selenium (Se)	100	mg/kg	10	ND
Comment				PASS

Notes :

- 1.mg/kg=ppm
- 2.ND = Not detected
- 3.MDL = Method Detection Limit
4. Results of soluble elements shown are of the adjusted analytical results.

Regulation (EC) No 1935/2004 of the European Parliament and of the Council of 27 October 2004,Commission

Regulation (EU) 2018/213 of 12 February 2018 amending Regulation (EU) No 10/2011-Total Content of



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Bisphenol A

Test Method : With reference to Part II Section D2 of Testing Methods for Foodstuffs, Implements, Containers and Packaging, Toys, Detergents, JETRO, Japan External Trade Organization, 2009 (Dichloromethane extraction by ultrasonic bath). Analysis was performed by HPLC-MS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Total content of Bisphenol A	★	mg/kg	0.1	ND	ND	ND
Comment				PASS	PASS	PASS

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>
Total content of Bisphenol A	★	mg/kg	0.1	ND
Comment				PASS

Notes :

1. mg/kg = milligram per kilogram
2. MDL=Method Detection Limit
3. ND= Not Detected(less than MDL)
4. ★ = Prohibited

Remark:Results & photo(s) of 004 & 005 in this report refer to 002 & 003 in test report CANHG2008789101

Sample photo(s):



CANHG2008796301

CAN20-087963.001



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End of Report



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