

Test Report

No.: 68.452.23.2578.01

Date: 2023-12-21



Greater China

Applicant: Smily Mia, LLC
Address: 3984 Harry Nielsen Ave, Kodiak, AK 99615
Product Name: Smily Mia Shy Penguin Wearable Soothing Teether
Order No.: M12030-16 light blue M12030-17 light pink
Country of Origin: China
Receipt Date of Sample: 2023-12-15
Date of Testing: 2023-12-18 ~ 2023-12-21
Sample Submitted: The sample(s) was (were) submitted by applicant and identified.
Test Result: Refer to the data listed in following pages

Test Item	Conclusion
1. EN 71-1:2014+A1:2018 Mechanical and Physical Properties	Pass
2. EN 71-2:2020 Flammability	Pass
3. EN 71-3:2019+A1:2021- Migration of certain elements	Pass
4. BPA according to Directive 2009/48/EC of the European Parliament and of the Council on the safety of toys and Amendment Commission Directive (EU) 2017/898	Pass
5. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
6. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
7. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments	Pass
8. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical	Pass
9. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials	Pass
10. Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 Tracking labels for children's products	Pass
11. CPSC Mechanical and Physical Properties	Pass
12. CPSC Flammability	Pass
13. ASTM F963-17 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)	Pass
14. ASTM F963-17 Section 4.3.5.1(2) and Section 4.3.5.2 - Soluble Heavy Elements	Pass
15. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101	Pass
16. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates	Pass

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuv sud.com
Web : http://www.tuv sud.cn

Regd. Office:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shanghai Branch, TÜV SÜD Group
Building 12&13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
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Test Item

Conclusion

17. US California Proposition 65 –Lead Content (Alameda County Superior Court RG-07-356892)	Pass
18. US California Proposition 65-Phthalates Content (Alameda BG07350969)	Pass
19. Total Lead Content Test	Pass*

Remarks:

1. MDL = Method Detection Limit
2. ND = Not Detected (<MDL)
3. $\leq$ Less than
4. 1 mg/kg = 1 ppm = 0.0001%
5. NA=Not Applicable
6. The test item was specified by the client.
7. "*" denotes the conclusion was drawn according to the client's specification.

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Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

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Fax: +86 755 8828 5299

E-mail: info@tuvsud.com

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TÜV SÜD Certification and Testing (China) Co., Ltd. Shenzhen Branch
Testing Center

Prepared by:

Authorized by:



Eva Liang
Project Manager

Marlon Zeng
Section Manager

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- (4) If relevant standards do not specify decision rule(s), follow decision rule as below:
 - "Pass" means that the measured result is within the limits, even when extended by expanded uncertainty at a level of confidence of 95%.
 - "Fail" means that the measured result is beyond the limit, even when extended by expanded uncertainty at a level of confidence of 95%.

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
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Fax: +86 755 8828 5299

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Description of Tested Subject:

Sample	Description	Photo
001	Smily Mia Shy Penguin Wearable Soothing Teether light blue	
002	Smily Mia Shy Penguin Wearable Soothing Teether light Pink	

T. No	Sample	Description
T1	001	Smily Mia Penguin Soothing Teether Toy/Smily Mia- light blue (Whole product)
T2	002	Smily Mia Penguin Soothing Teether Toy/Smily Mia-light pink (Whole product)
T3	003	light blue soft plastic (Teether)
T4	004	light pink soft plastic (Teether)

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Test Result(s):

1. EN 71-1:2014+A1:2018 Mechanical and Physical Properties

Sample	001, 002, 003, 004, 005
Labelled age range	0M+
Requested age range	Not Stated
Age range in testing	All ages
Age Group Assessed As per Age Guideline	All ages

Clause	Requirement	Evaluation
4	General Requirements	--
4.1	Material cleanliness	P
4.7	Edges	P
4.8	Points and metallic wires	P
4.11	Mouth-actuated toys and other toys intended to be put in the mouth	P
5	Toys intended for children under 36 months	--
5.1	General requirements	P
5.8	Shape and size of certain toys	P
7	Warnings markings and instructions for use	--
7.1	General	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

Only applicable clauses were shown.

Labelling requirement (Washing/Cleaning instruction, CE marking, Importer / Manufacturer name and address, Product identification) according to the Directive 2009/48/EC-Safety of toys.

	Result (On Package)	Result (On Product)
CE Marking	Present	Absent
Manufacturer's Name and Address	Present	Absent
Importer's Name and Address	Absent	Absent
Product Identification	Present	Absent

The following marking shall be fulfilled.

- The CE marking is subject to the general principles set out in Article 30 of Regulation (EC) No 765/2008. The CE marking shall be affixed visibly, legibly and indelibly to the toy, to an affixed label to the packaging, or to the counter display.
- The manufacturer's name and address, importer's name and address in the EU shall be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
- The toys shall bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

	Result (On Package)	Result (On Product)
Washing/Cleaning instruction	Present	Absent

A toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.

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2. EN 71-2:2020 Flammability

Sample		001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011
Clause	Requirement	Evaluation
4.1	General Requirement	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

Only applicable clauses were shown.

3. EN 71-3:2019+A1:2021- Migration of certain elements

Test with reference to EN 71-3:2019+A1:2021, determination by ICP-MS.

Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			012	013
Soluble Aluminum	5.00	28130	8.04	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			014	015
Soluble Aluminum	5.00	28130	6.12	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00

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Shenzhen Branch
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Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	11.8
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	0.050	0.070
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 015 is 13.40 mg

Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			016	017
Soluble Aluminum	5.00	28130	<5.00	5.91
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	<0.04	<0.04
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
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Regd. Office:
TÜV SÜD Certification and Testing (China) Co., Ltd.
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Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]	
			022	023
Soluble Aluminum	5.00	28130	17.4	<5.00
Soluble Antimony	5.00	560	<5.00	<5.00
Soluble Arsenic	5.00	47	<5.00	<5.00
Soluble Barium	5.00	18750	<5.00	<5.00
Soluble Boron	5.00	15000	<5.00	<5.00
Soluble Cadmium	5.00	17	<5.00	<5.00
Soluble Chromium III	0.04	460	0.060	0.110
Soluble Chromium VI	0.04	0.053	<0.04	<0.04
Soluble Cobalt	5.00	130	<5.00	<5.00
Soluble Copper	5.00	7700	<5.00	<5.00
Soluble Lead	5.00	23	<5.00	<5.00
Soluble Manganese	5.00	15000	<5.00	<5.00
Soluble Mercury	5.00	94	<5.00	<5.00
Soluble Nickel	5.00	930	<5.00	<5.00
Soluble Selenium	5.00	460	<5.00	<5.00
Soluble Strontium	5.00	56000	<5.00	<5.00
Soluble Tin	2.50	180000	<2.50	<2.50
Organic Tin	7.50	12	<7.50	<7.50
Soluble Zinc	5.00	46000	<5.00	<5.00
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit in scraped- off toy materials [mg/kg]	Result(s) [mg/kg]
			024
Soluble Aluminum	5.00	28130	<5.00
Soluble Antimony	5.00	560	<5.00
Soluble Arsenic	5.00	47	<5.00
Soluble Barium	5.00	18750	<5.00
Soluble Boron	5.00	15000	<5.00
Soluble Cadmium	5.00	17	<5.00
Soluble Chromium III	0.04	460	<0.04
Soluble Chromium VI	0.04	0.053	<0.04
Soluble Cobalt	5.00	130	<5.00
Soluble Copper	5.00	7700	<5.00
Soluble Lead	5.00	23	<5.00

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
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Soluble Manganese	5.00	15000	<5.00
Soluble Mercury	5.00	94	<5.00
Soluble Nickel	5.00	930	<5.00
Soluble Selenium	5.00	460	<5.00
Soluble Strontium	5.00	56000	<5.00
Soluble Tin	2.50	180000	<2.50
Organic Tin	7.50	12	<7.50
Soluble Zinc	5.00	46000	<5.00
Conclusion			Pass

4. BPA according to Directive 2009/48/EC of the European Parliament and of the Council on the safety of toys and Amendment Commission Directive (EU) 2017/898

Test with reference to EN 71-10:2005 & EN 71-11:2005

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					012+013+014	015+016+017
Bisphenol A	80-05-7	mg/L	0.01	0.04	<0.01	<0.01
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					018+019+020	021+022
Bisphenol A	80-05-7	mg/L	0.01	0.04	<0.01	<0.01
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024	
Bisphenol A	80-05-7	mg/L	0.01	0.04	<0.01	
Conclusion					Pass	

5. Total Cadmium Content Requirement in Annex XVII, Item 23 of the REACH Regulation(EC) No 1907/2006 with its Amendments

Test with reference to EPA 3052:1996, determination by ICP-OES

Sample	Unit	MDL	Limit	Result(s)	Conclusion
012+013+014	mg/kg	10	100	<10.0	Pass
015+016+017	mg/kg	10	100	<10.0	Pass
018+019+020	mg/kg	10	100	<10.0	Pass
021+022	mg/kg	10	100	<10.0	Pass
023+024	mg/kg	10	100	<10.0	Pass

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TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
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6. Phthalates Content in Annex XVII Items 51 and 52 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to in house method, solvent extraction and determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					012+013+014	015+016+017
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	<0.005	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	<0.005	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					018+019+020	021+022
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005	<0.005
Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	<0.005	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	<0.005	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)
					023+024
Bis (2-ethylhexyl) phthalate, DEHP	117-81-7	%	0.005	-	<0.005
Dibutyl phthalate, DBP	84-74-2	%	0.005	-	<0.005
Benzyl butyl phthalate, BBP	85-68-7	%	0.005	-	<0.005

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Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuv-sud.com
Web : http://www.tuv-sud.cn

Regd. Office:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
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Diisobutylphthalate, DIBP	84-69-5	%	0.005	-	<0.005
Sum of DBP, BBP, DEHP, DIBP	-	%	0.005	0.1	<0.005
Di-isononyl phthalate, DINP	28553-12-0 , 68515-48-0	%	0.005	-	<0.005
Di-isodecyl phthalate, DIDP	26761-40-0 , 68515-49-1	%	0.005	-	<0.005
Di-n-octyl phthalate, DNOP	117-84-0	%	0.005	-	<0.005
Sum of DINP, DIDP, DNOP	-	%	0.005	0.1	<0.005
Conclusion					Pass

7. Polycyclic Aromatic Hydrocarbons (PAHs) Content in Annex XVII item 50 of the REACH Regulation (EC) No 1907/2006 with its Amendments

Test with reference to AfPS GS 2019:01PAK, determination by GC-MS.

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					012+013+014	015
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					016	017
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					Pass	Pass

Laboratory:
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Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : http://www.tuvsud.cn

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Parameter	CAS No.	Unit	MDL	Limit	Result(s)	
					018+019+020	021+022
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1	<0.1
Conclusion					Pass	Pass

Parameter	CAS No.	Unit	MDL	Limit	Result(s)
					023+024
Benzo[b]fluoranthene (BbFA)	205-99-2	mg/kg	0.1	0.5	<0.1
Benzo[a]anthracene (BaA)	56-55-3	mg/kg	0.1	0.5	<0.1
Benzo[a]pyrene (BaP)	50-32-8	mg/kg	0.1	0.5	<0.1
Benzo[e]pyrene (BeP)	192-97-2	mg/kg	0.1	0.5	<0.1
Benzo[j]fluoranthene (BjFA)	205-82-3	mg/kg	0.1	0.5	<0.1
Benzo[k]fluoranthene (BkFA)	207-08-9	mg/kg	0.1	0.5	<0.1
Chrysene (CHR)	218-01-9	mg/kg	0.1	0.5	<0.1
Dibenzo[a,h]anthracene (DBAhA)	53-70-3	mg/kg	0.1	0.5	<0.1
Conclusion					Pass

8. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical

Sample	001, 002, 003, 004, 005
Labelled age range	0M+
Requested age range	Not Stated
Age range in testing	All ages
Age Group Assessed As per Age Guideline	All ages

Clause	Requirement	Evaluation
4	Safety Requirements	--
4.1	Material quality	P
4.6	Small Objects	P

Laboratory:
TUV SUD Certification and Testing (China) Co., Ltd
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : http://www.tuvsud.cn

Regd. Office:
TUV SUD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
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Guangdong, China

Clause	Requirement	Evaluation
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.22	Teethers and Teething Toys	P
5	Labeling Requirements	--
5.2	Age Grading Labeling	P
5.16	Promotional Materials	P
6	Instructional Literature	--
6.1	Definition and Description	P
7	Producer's Markings	--
7.1	Name and Address of the Producer or Distributor	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

Only applicable sections were shown.

8. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Physical and Mechanical

Sample	006, 007, 008, 009, 010, 011
Labelled age range	3M+
Requested age range	Not Stated
Age range in testing	All ages
Age Group Assessed As per Age Guideline	All ages

Clause	Requirement	Evaluation
4	Safety Requirements	--
4.1	Material quality	P
4.6	Small Objects	P
4.7	Accessible Edges	P
4.9	Accessible Points	P
4.22	Teethers and Teething Toys	P
5	Labeling Requirements	--
5.2	Age Grading Labeling	P
5.16	Promotional Materials	P
6	Instructional Literature	--
6.1	Definition and Description	P
7	Producer's Markings	--
7.1	Name and Address of the Producer or Distributor	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

Only applicable sections were shown.

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9. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Flammability Test of Materials Other Than Textile Materials

As per Section 4.2 of ASTM F963-17 Standard Consumer Safety Specification for Toy Safety

Sample: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011

Result: Ignited but Self-Extinguished before Burn Rate Could be Determined

10. Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008 section 103 Tracking labels for children's products

Sample	001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011	
Section	Requirement	Evaluation
Tracking labels for children's product	Tracking labels for children's products Tracking label per Consumer Product Safety Improvement Act (CPSIA) of 2008	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

- The tracking label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

11. CPSC Mechanical and Physical Properties

As per U.S. Code of Federal Regulations title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Sample	001, 002, 003, 004, 005		
Labelled age range	0M+		
Requested age range	Not Stated		
Age range in testing	All ages		
Age Group Assessed As per Age Guideline	All ages		
	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As Received	P	NA	P
Impact (1500.51(b))	P	NA	P
Bite	NA	NA	NA
Flexure	NA	NA	NA
Torque (1500.53(e))	P	NA	P
Tension (1500.53(f))	P	NA	P
Compression	NA	NA	NA

Abbreviation:

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Laboratory:
TUV SUD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuv sud.com
Web : http://www.tuv sud.cn

Regd. Office:
TUV SUD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
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Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

11. CPSC Mechanical and Physical Properties

As per U.S. Code of Federal Regulations title 16 Part 1500.50, the hazards of sharp points, sharp edge and small parts are assessed both before and after applicable use and abuse tests.

Sample	006, 007, 008, 009, 010, 011
Labelled age range	3M+
Requested age range	Not Stated
Age range in testing	All ages
Age Group Assessed As per Age Guideline	All ages

	Sharp Point (1500.48)	Sharp Edge (1500.49)	Small Part (1501)
As Received	P	NA	P
Impact (1500.51(b))	P	NA	P
Bite	NA	NA	NA
Flexure	NA	NA	NA
Torque (1500.53(e))	P	NA	P
Tension (1500.53(f))	P	NA	P
Compression	NA	NA	NA

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

12. CPSC Flammability

As per U.S. Code of Federal Regulations title 16 Part 1500.44 for rigid and pliable solids.

Sample: 001, 002, 003, 004, 005, 006, 007, 008, 009, 010, 011

Test Method	Requirement	Evaluation
16 CFR 1500.44	Flammable solid	P

Abbreviation:

P = Pass, F = Fail, NA = Not Applicable, NR = Not Requested.

Note:

- Maximum permissible burning rate = 0.1 in/sec.

13. ASTM F963-17 Section 4.3.5.2 - Total Lead Content Test (Substrate Materials)

Test with reference to CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3, determination by ICP-OES

Sample	Unit	MDL	Limit	Result(s)	Conclusion
012+013+014	mg/kg	10	100	<10.0	Pass
015+016+017	mg/kg	10	100	<10.0	Pass
018+019+020	mg/kg	10	100	<10.0	Pass
021+022	mg/kg	10	100	<10.0	Pass
023+024	mg/kg	10	100	<10.0	Pass

Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998

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Web : http://www.tuv sud.cn

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TÜV SÜD Certification and Testing (China) Co., Ltd.

Shenzhen Branch

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14. ASTM F963-17 Section 4.3.5.1(2) & Section 4.3.5.2 - Soluble Heavy Elements

Test with reference to ASTM F963-17 Section 8.3

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			012	013
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			014	015
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	6.27
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Note: Mass of trace amount of sample 015 is 13.40 mg

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			016	017
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web: http://www.tuvsud.cn

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TÜV SÜD Certification and Testing (China) Co., Ltd.
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Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			018	019
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			020	021
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]	
			022	023
Soluble Antimony (Sb)	5.0	60	<5.0	<5.0
Soluble Arsenic (As)	2.5	25	<2.5	<2.5
Soluble Barium (Ba)	5.0	1000	<5.0	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0	<5.0
Soluble Lead (Pb)	5.0	90	<5.0	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0	<5.0
Soluble Selenium (Se)	5.0	500	<5.0	<5.0
Conclusion			Pass	Pass

Parameter	MDL [mg/kg]	Limit [mg/kg]	Result(s) [mg/kg]
			024
Soluble Antimony (Sb)	5.0	60	<5.0
Soluble Arsenic (As)	2.5	25	<2.5

Laboratory:
TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
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Soluble Barium (Ba)	5.0	1000	<5.0
Soluble Cadmium (Cd)	5.0	75	<5.0
Soluble Chromium (Cr)	5.0	60	<5.0
Soluble Lead (Pb)	5.0	90	<5.0
Soluble Mercury (Hg)	5.0	60	<5.0
Soluble Selenium (Se)	5.0	500	<5.0
Conclusion			Pass

Note: 1. Adjusted analytical result

15. Total Lead Content Test in accessible substrate materials in accordance with Consumer Product Safety Improvement Act of 2008 Section 101

Test with reference to CPSC-CH-E1001-08.3 or CPSC-CH-E1002-08.3, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
012+013+014	mg/kg	10	100	<10.0	Pass
015+016+017	mg/kg	10	100	<10.0	Pass
018+019+020	mg/kg	10	100	<10.0	Pass
021+022	mg/kg	10	100	<10.0	Pass
023+024	mg/kg	10	100	<10.0	Pass

16. 16 CFR Part 1307 amending CPSIA section 108, Prohibition of Children's Toys and Child Care Articles Containing Specified Phthalates

Test with reference to in-house method, determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					012+013+014	015+016+017
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Laboratory:
TUV SUD Certification and Testing (China) Co., Ltd
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
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Web : http://www.tuvsud.cn

Regd. Office:
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Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					018+019+020	021+022
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	<0.005
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	<0.005
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					023+024	
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	
Di-isononyl phthalate, (DINP)	28553-12-0 , 68515-48-0	%	0.005	0.1	<0.005	
Diisobutylphthalate, (DIBP)	84-69-5	%	0.005	0.1	<0.005	
Dipentyl phthalate (DPP)	131-18-0	%	0.005	0.1	<0.005	
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	
Dicyclohexyl phthalate (DCHP)	84-61-7	%	0.005	0.1	<0.005	
Conclusion					Pass	

Laboratory:
TUV SUD Certification and Testing (China) Co., Ltd
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998
Fax: +86 755 8828 5299
E-mail: info@tuvsud.com
Web : http://www.tuvsud.cn

Regd. Office:
TUV SUD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
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Greater China

17. US California Proposition 65 - Lead Content (Alameda County Superior Court RG-07-356892)

Test with reference to CPSC-CH-E1003-09.1 or CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, determination by ICP-OES.

Sample	Unit	MDL	Limit	Result(s)	Conclusion
012+013+014	mg/kg	10	100	<10.0	Pass
015+016+017	mg/kg	10	100	<10.0	Pass
018+019+020	mg/kg	10	100	<10.0	Pass
021+022	mg/kg	10	100	<10.0	Pass
023+024	mg/kg	10	100	<10.0	Pass

18. US California Proposition 65-Phthalates Content (Alameda BG07350969)

Test with reference to in-house method, determination by GC-MS.

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					012+013+014	015+016+017
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Compound	CAS No.	Unit	MDL	Limit	Result(s)	
					018+019+020	021+022
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005	<0.005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	<0.005	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005	<0.005
Conclusion					Pass	Pass

Laboratory:

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Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park

Guankou Erlu, Nantou, Nanshan District, Shenzhen,

Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

Web : http://www.tuv sud.cn

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd.

Shenzhen Branch

Building 12&13, Zhiheng Wisdomland Business Park,

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Greater China

Compound	CAS No.	Unit	MDL	Limit	Result(s)
					023+024
Bis (2-ethylhexyl) phthalate, (DEHP)	117-81-7	%	0.005	0.1	<0.005
Dibutyl phthalate, (DBP)	84-74-2	%	0.005	0.1	<0.005
Benzyl butyl phthalate, (BBP)	85-68-7	%	0.005	0.1	<0.005
Di-isodecyl phthalate, (DIDP)	26761-40-0 , 68515-49-1	%	0.005	0.1	<0.005
Di-n-hexyl phthalate (DHP)	84-75-3	%	0.005	0.1	<0.005
Conclusion					Pass

19. Total Lead Content Test

Test with reference to in house method, determination by ICP-OES.

Sample	Unit	MDL	Client's Limit	Result(s)	Conclusion
012+013+014	mg/kg	10	500	<10.0	Pass
015+016+017	mg/kg	10	500	<10.0	Pass
018+019+020	mg/kg	10	500	<10.0	Pass
021+022	mg/kg	10	500	<10.0	Pass
023+024	mg/kg	10	500	<10.0	Pass

-End of Test Report-

Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998

Fax: +86 755 8828 5299

E-mail: info@tuv sud.com

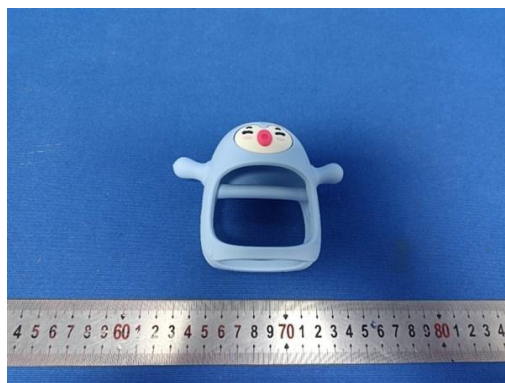
Web : http://www.tuv sud.cn

Regd. Office:

TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

APPENDIX

PHOTO OF SUBMITTED PRODUCT



Laboratory:

TÜV SÜD Certification and Testing (China) Co., Ltd.
Shenzhen Branch
Building 12&13, Zhiheng Wisdomland Business Park,
Guankou Erlu, Nantou, Nanshan District, Shenzhen,
Guangdong, China

Phone: +86 755 8828 6998

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