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TESTING
CNAS L1744

SHANTOU LUNABEBE TOYS FACTORY

Technical Report: (8824)080-0078

Date Received: Mar 20, 2024

Apr 24, 2024

Page 1 of 38

SHANTOU LUNABEBE TOYS FACTORY
HAIHOU LONGNEI INDUSTRIAL ZONE, LIANXIA TOWN,
CHENGHAI DISTRICT, 515835, SHANTOU, GUANGDONG
SHENG CHINA

Sample Description:	DOLL SERIES	Sample Size:	16
Vendor:	N/A	Style No(s):	SEE ATTACHMENT
Manufacturer:	N/A	SKN/SKU No.:	NOT PROVIDE
Labeled Age Grade:	18M+	PO No.:	NOT PROVIDE
Appropriate Age Grade:	NOT REQUESTED	Ref #:	NOT PROVIDE
Client Specified Age Grade:	18M+		
Tested Age Grade:	OVER 18 MONTHS OF AGE	Country of Origin:	NOT PROVIDE
UPC Code:	N/A	Assortment No.:	NOT PROVIDE
Resubmitted Sample Date:	APR 18, 2024	Further Information Date:	APR 23, 2024
Test Starting Date:	MAR 20, 2024	Test Finished Date:	APR 24, 2024

EXECUTIVE SUMMARY:

Test Requested	Conclusion
(#)Mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018 clauses 1-7(before and after washing).	PASS
Labeling requirements of "CE marking, manufacturer/ Importer name and address, and product identification" under "Directive 2009/48/EC Safety of Toy".	PASS
(#)Flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020(before and after washing).	PASS

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD
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Lisa Bai

Lisa Bai
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BUREAU VERITAS SHENZHEN CO.,LTD
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REMARK

If there are questions or concerns on this report, please contact the following persons:

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SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 2 of 38

EXECUTIVE SUMMARY:

Test Requested	Conclusion
(#)Mechanical and physical properties requirements of the tested subclauses of the British Standard, "Safety of toys", BS EN71: Part 1:2014+A1:2018, clauses 1-7 (before and after washing).	PASS
Labeling requirements of "UKCA Marking, Company name and UK address and product identification".	PASS
(#)Flammability requirements of the British Standard "Safety of Toys", BS EN 71: Part 2: 2020 (before and after washing) .	PASS
(#)Migration of Certain Elements in Category III - Scraped off toy material requirements of the European Standard, "Safety of toys", EN 71-3:2019+A1:2021.	PASS
(#)Migration of Certain Elements in Category III - Scraped off toy material requirements of the British Standard, "Safety of toys", BS EN 71-3:2019+A1:2021.	PASS

Note: At the request of the client, the sample(s) was evaluated for use by children 18M+.

Note: At the request of the client, EN71-2: Part 2: 2020 the Clause 4.1 about Liquids flammability requirement(s) was waived for this submission.

Note: Certain of toys are fixed by glue thus there are no corresponding function such as folding mechanisms.

Note: The manufacturer / importer information was present on the packaging only. It has to be noted that, or according to TSD 2009/48/EC, the manufacturers/ importer shall indicate their name, registered trade name registered trade mark and the address at which they can be contacted on the toy, or, where that is not possible, on its packaging or in a document accompanying the toy."

Note: The product identification is present on the packaging only. It has to be noted that, According to TSD 2009/48/EC, manufacturers shall ensure that their toys 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.

Note: At the request of client, test(s) was conducted on the certain component(s) of the submitted samples(s) / submitted component(s).

Note: Tests with (#) are accredited by CNAS.



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 3 of 38

ATTACHMENT:

Style No(s):

HX606、HX607、HX608、HX609、HX610、HX611、HX612、HX613、HX614、HX615、HX616、HX617、
HX618、HX619、HX620、HX621、HX622、HX623、HX624、HX625、HX626、HX627、HX628、HX629、
HX630、HX631、HX632、HX633、HX634、HX635、HX636、HX637、HX638、HX639、HX640、HX641、
HX642、HX643、HX644、HX645、HX646、HX647、HX648、HX649、HX650、HX651、HX652、HX653、
HX654、HX655、HX656、HX657、HX658、HX659、HX660、HX661、HX662、HX663、HX664、HX665、
HX666、HX667、HX668、HX669、HX670、HX671、HX672、HX673、HX674、HX675、HX676、HX677、
HX678、HX679、HX680、HX681、HX682、HX683、HX684、HX685

Tested Component(s) Description List:

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Brown soft plastic	Hair	-
I002	Nude soft plastic	Head	-
I003	Nude plastic	Girl body	-
I004	Pink plastic	Seat	-
I005	White plastic	Nursing bottle	-
I006	Back/white coating	Duck	-
I007	Pink/green/blue printed white fabric	Jumpsuits front	-
I008	Multicolor printed pink fabric	Dress	-
I009	Green soft plastic	Rain boots	-
I010	Purple plastic	Teether	-



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 4 of 38

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the EN71 : Part 1 : 2014+A1:2018,
CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee
CEN/TC 52 and

Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation				
NM	The sample(s) DOES NOT MEET the requirement of this Subclause				
M	The sample(s) MEET the requirement of this Subclause				
N/A	Not Applicable				
NR	Not Requested				
NE	Not Evaluated				
NP	None Present				
NT	Not Tested				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 5 of 38

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	M
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA

RESULTS:

Subclause	Requirement	Result
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectile toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1- 4.20.2.4, 4.20.2.6-4.20.2.12 & 7.14	Acoustics	M
*4.20.2.5	Acoustics– Toys using headphones or earphones	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS		
5.1	General	M
5.1a	Small parts – as received	M
5.1b	Small parts, sharp points, sharp edges – after tests	M
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	M
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 7 of 38

RESULTS:

Subclause	Requirement	Result
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	M
5.4.4	Fixed loops, tangled loops and nooses	M
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	M
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	M
WARNINGS, INSTRUCTIONS FOR USE		
7.1	General	NA
7.2	Toys not intended for children under 36 months	NA
7.5	Functional toys	NA

2009/48/EC General Labeling Requirement

Requirement	Result
CE Mark	M
Manufacturer/ Importer name and address	M
Product Identification	M

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NT=Not Test

Remark:

2009/48/EC General Labeling Requirements are not accredited by CNAS.



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 8 of 38

RESULTS:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.7.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 9 of 38

RESULTS:

FLAMMABILITY (EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Highly flammable solids	NP
4.1	Surface flash on a piled surface	M
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NT
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by child	NA
4.4	warning on product and packaging (10 - 30 mm/s)	NA
4.5	Soft-filled toys	M

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

* Note: Subclause indicated with * are not accredited.

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

P = Present NP = Not Present



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 10 of 38

RESULTS:

APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the BS EN71 : Part 1 : 2014+A1:2018, CEN ISO/TR 8124-8:2016 Safety of toys - Part 8: Age determination guidelines prepared by Technical Committee CEN/TC 52 and

Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC).

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request Bureau Veritas Consumer Products Services, Inc. to determine an appropriate age grade, the labeled age grade will be used for testing.

EXPLANATION OF THE ABBREVIATIONS FOR PART 1, 2 & 6

Symbol	Explanation				
NM	The sample(s) DOES NOT MEET the requirement of this Subclause				
M	The sample(s) MEET the requirement of this Subclause				
N/A	Not Applicable				
NR	Not Requested				
NE	Not Evaluated				
NP	None Present				
NT	Not Tested				
P	Present				
R	Refer to Comment Section of this report				
Symbol	Language Present	Symbol	Language Present	Symbol	Language Present
B	Belgian language	G	German language	PR	Portuguese language
D	Danish language	GR	Greek language	S	Spanish language
E	English language	H	Dutch language	SD	Swedish language
F	Finnish language	I	Italian language	SZ	Swiss language
FR	French language	N	Norwegian language		



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 11 of 38

RESULTS:

**MECHANICAL & PHYSICAL PROPERTIES
(BS EN 71: PART 1 – 2014+A1 – 2018)**

Subclause	Requirement	Result
4.1	Material cleanliness	M
4.2	Assembly	NA
4.3	Flexible plastic sheeting	NA
4.4	Toy Bags	NA
4.5	Glass	NA
4.6	Expanding materials	NA
4.7 & 7.6	Edges	M
4.8 & 7.6	Points and metallic wires	M
4.8e	Splinters	M
4.9	Protruding parts	M
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	NA
4.10.3	Hinges	NA
4.10.4	Springs	NA
4.11	Mouth actuated toys and other toys intended to be put in the mouth	NA
4.12 & 7.3	Balloons	NA
4.13 & 7.9	Cord of toy kites and other flying toys	NA
4.14.1	Toys which a child can enter	NA
4.14.2 & 7.8	Masks and helmets	NA
4.15.1	Toys propelled by child	
4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16	Toys propelled by child – Instructions for use	NA
4.15.1.3	Toys propelled by child – Strength	NA
4.15.1.4	Toys propelled by child – Stability	NA
4.15.1.5	Toys propelled by child – Braking	NA
4.15.1.6	Toys propelled by child - Transmission	NA
4.15.1.7	Toys propelled by child – insertion mark	NA
4.15.1.8	Electrically-driven ride-on toys	NA
4.15.2	Toy bicycles	
4.15.2.2 & 7.15	Toy bicycles – Warnings and instructions for use	NA
4.15.2.3	Toy bicycles – Braking	NA
4.15.3 & 7.16 & 7.19	Rocking horses and similar toys	NA
4.15.4 & 7.16	Toys not propelled by child	NA
4.15.5 & 7.18	Toy scooters	NA

RESULTS:

Subclause	Requirement	Result
4.16	Heavy immobile toys	NA
4.17.2	All projectiles	NA
4.17.3 & 7.7	Projectile toys with stored energy	NA
4.17.4 & 7.26	Certain projectile toys without stored energy	NA
4.18 & 7.4	Aquatic toys and inflatable toys	NA
4.19 & 7.13 & 7.14	Percussion caps	NA
4.20.2.1- 4.20.2.4, 4.20.2.6-4.20.2.12 & 7.14	Acoustics	M
*4.20.2.5	Acoustics– Toys using headphones or earphones	NA
4.21	Toys containing a non-electrical heat source	NA
4.22 & 7.2	Small balls	NA
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	NA
4.23.3 & 7.20	Magnetic / electrical experimental sets intended for children over 8 years	NA
4.24	Yo-yo ball	NA
4.25	Toys attached to food	NA
4.26	Toy Disguise Costumes	NA
4.27.1	Flying toys – General	NA
4.27.2 & 7.25.1	Rotors and propellers on flying toys	NA
4.27.3 & 7.25.2	Rotors and propellers on remote controlled flying toys	NA
FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS		
5.1	General	M
5.1a	Small parts – as received	M
5.1b	Small parts, sharp points, sharp edges – after tests	M
5.1c	Cross section <2mm metal points & wires	NA
5.1e	Toys contain glue	NA
5.1f	Casing of toys	NA
5.2	Fillings, coverings and seams	M
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 13 of 38

RESULTS:

Subclause	Requirement	Result
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	M
5.4.4	Fixed loops, tangled loops and nooses	M
5.4.5	Cords and chains on pull along toys	NA
5.4.6 & 7.21	Electrical cables	NA
5.4.7	Cross-sectional dimension of certain cords	NA
5.4.8	Self-retracting cords	NA
5.4.9 & 7.11 & 7.23	Toys attached to or intended to be strung across a cradle, cot or perambulator	NA
5.5 & 7.12	Liquid filled toys	NA
5.6	Electrically driven toys	NA
5.7	Glass and porcelain	NA
5.8	Shape and size	NA
5.9 & 7.17	Monofilament fibres	NA
5.10	Small balls	NA
5.11	Play figures	NA
5.12	Hemispheric shaped toys	M
5.13	Suction cups	NA
5.14	Straps intended to be worn fully or partially around the neck	NA
5.15 & 7.24	Sledges with cords for pulling	NA
6	Packaging	M
WARNINGS, INSTRUCTIONS FOR USE		
7.1	General	NA
7.2	Toys not intended for children under 36 months	NA
7.5	Functional toys	NA

UKCA Marking and Company name and UK address Labeling

Requirement	Result
UKCA Marking	M
Company name and UK address	M
Product Identification	M

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section NT=Not Test

Remark:

UKCA Marking and Company name and UK address labeling content are not accredited by CNAS.



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 14 of 38

RESULTS:

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.3	8.25.1	4.15.1.5	8.26.1	4.22	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32	5.4.5	8.40
4.5	8.5, 8.7, 8.11, 8.12	4.15.1.8	8.29	4.23	8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35	5.4.6	8.40
4.6	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14	4.15.2.4	8.26.2	4.24	8.37	5.4.7	8.20
4.7	8.11	4.15.3	8.21, 8.23.1	4.25	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1	5.7.8	8.39
4.8	8.12, 8.13	4.15.4	8.21, 8.23.1	4.26	8.38	5.5	8.15
4.9	8.4.2.3, 8.11, 8.12	4.15.5	8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27	4.27.1	8.43	5.6	8.29
4.10.1	8.18.2, 8.18.3	4.16	8.23.2	4.27.2	8.4.2.6	5.8	8.16
4.10.2	8.5, 8.6, 8.7, 8.11, 8.12	4.17.1	8.3, 8.4.2.1, 8.7, 8.8, 8.42	4.27.3	8.4.2.6	5.10	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32
4.11	8.2, 8.3, 8.4.2.1, 8.9, 8.17	4.17.2	8.3, 8.4.2.4, 8.7, 8.8, 8.32.1, 8.43, 8.44	5.1	8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12	5.11	8.33
4.13	8.19	4.17.3	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.3	8.4.2.1, 8.25	5.12	8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9,
4.14.1	8.31.1, 8.31.2	4.17.4	8.3, 8.4.2.3, 8.4.2.5, 8.11, 8.12, 8.24, 8.42	5.4.1	8.40	5.13	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32
4.14.2	8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12	4.18	8.2, 8.3, 8.4.2.1	5.4.2	8.38, 8.40, 8.41	5.14	8.38
4.15.1.3	8.11, 8.12, 8.21, 8.22	4.20	8.28	5.4.3	8.38, 8.40, 8.41	6	8.3, 8.4.2.1, 8.25.1, 8.32.1
4.15.1.4	8.23.1	4.21	8.30	5.4.4	8.36, 8.38		



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 15 of 38

RESULTS:

FLAMMABILITY (BS EN 71 PART 2: 2020)

Subclause	Requirement	Result
4.1	Cellulose nitrate	NP
4.1	Highly flammable solids	NP
4.1	Surface flash on a piled surface	M
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NT
4.2	Toys to be worn on the head	NA
4.3	Toy disguise costumes and toys intended to be worn by child in play	NA
4.3	warning on product and packaging (10 - 30 mm/s)	NA
4.4	Toys intended to be entered by child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	M

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method	Sub-clause	Test Method
4.2.2	5.2	4.2.4	5.3	4.3	5.4	4.5	5.5
4.2.3	5.3	4.2.5	5.4	4.4	5.4	-	-

* Note: Subclause indicated with * are not accredited.

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section
P = Present NP = Not Present



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 16 of 38

RESULTS:

Migration of Certain Elements, EN 71-3:2019+A1:2021

Test Method: European Standard EN 71-3:2019+A1:2021 Section 8.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I001	I002	I003	I004	I005
Aluminum (Al)	28130	4	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	5	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 17 of 38

RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006a	I006b	I007	I008	I009
Aluminum (Al)	28130	9	20	3	3	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	0.35	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND#	ND#	ND#	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	15	4	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	5	2	2	3	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 18 of 38

RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I010	-	-	-	-
Aluminum (Al)	28130	ND	-	-	-	-
Arsenic (As)	47	ND	-	-	-	-
Boron (B)	15000	ND	-	-	-	-
Barium (Ba)	18750	ND	-	-	-	-
Cadmium (Cd)	17	ND	-	-	-	-
Cobalt (Co)	130	ND	-	-	-	-
Chromium III (Cr III)	460	ND	-	-	-	-
Chromium VI (Cr VI)	0.053	ND	-	-	-	-
Copper (Cu)	7700	ND	-	-	-	-
Mercury (Hg)	94	ND	-	-	-	-
Manganese (Mn)	15000	ND	-	-	-	-
Nickel (Ni)	930	ND	-	-	-	-
Lead (Pb)	23	ND	-	-	-	-
Antimony (Sb)	560	ND	-	-	-	-
Selenium (Se)	460	ND	-	-	-	-
Tin (Sn)	180000	ND	-	-	-	-
Organic tin	12	ND	-	-	-	-
Strontium (Sr)	56000	ND	-	-	-	-
Zinc (Zn)	46000	ND	-	-	-	-
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	-	-	-	-

mg/kg = milligrams per kilogram (ppm=parts per million)

Organic tin = migration of total organic tin is expressed as tributyltin cation content in mg/kg

= Verified results (see note)

ND = Not detected

Detection Limit (mg/kg) :

Category III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.025 ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: EN 71-3:2019+A1:2021, Annex F by Ion-chromatography with ICP-MS detector analysis.
- Organic tin: EN 71-3:2019+A1:2021, Annex G by Gas Chromatography-Mass Spectroscopy analysis.



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 19 of 38

RESULTS:

Migration of Certain Elements, BS EN 71-3:2019+A1:2021

Test Method: British Standard BS EN 71-3:2019+A1:2021 Section 8.

Class: Category III - Scraped off toy material

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
		I001	I002	I003	I004	I005
Aluminum (Al)	28130	4	ND	ND	ND	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND	ND	ND	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	ND	ND	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	5	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 20 of 38

RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006a	I006b	I007	I008	I009
Aluminum (Al)	28130	9	20	3	3	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	ND	ND
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	0.35	ND	ND	ND	ND
Chromium VI (Cr VI)	0.053	ND#	ND#	ND#	ND	ND
Copper (Cu)	7700	ND	ND	ND	ND	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	ND	ND	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	ND	ND	ND
Antimony (Sb)	560	ND	ND	15	4	ND
Selenium (Se)	460	ND	ND	ND	ND	ND
Tin (Sn)	180000	ND	ND	ND	ND	ND
Organic tin	12	ND	ND	ND	ND	ND
Strontium (Sr)	56000	ND	ND	ND	ND	ND
Zinc (Zn)	46000	5	2	2	3	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



SHANTOU LUNABEBE TOYS FACTORY

Technical Report: **(8824)080-0078**

Apr 24, 2024

Page 21 of 38

RESULTS:

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I010	-	-	-	-
Aluminum (Al)	28130	ND	-	-	-	-
Arsenic (As)	47	ND	-	-	-	-
Boron (B)	15000	ND	-	-	-	-
Barium (Ba)	18750	ND	-	-	-	-
Cadmium (Cd)	17	ND	-	-	-	-
Cobalt (Co)	130	ND	-	-	-	-
Chromium III (Cr III)	460	ND	-	-	-	-
Chromium VI (Cr VI)	0.053	ND	-	-	-	-
Copper (Cu)	7700	ND	-	-	-	-
Mercury (Hg)	94	ND	-	-	-	-
Manganese (Mn)	15000	ND	-	-	-	-
Nickel (Ni)	930	ND	-	-	-	-
Lead (Pb)	23	ND	-	-	-	-
Antimony (Sb)	560	ND	-	-	-	-
Selenium (Se)	460	ND	-	-	-	-
Tin (Sn)	180000	ND	-	-	-	-
Organic tin	12	ND	-	-	-	-
Strontium (Sr)	56000	ND	-	-	-	-
Zinc (Zn)	46000	ND	-	-	-	-
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	-	-	-	-

mg/kg = milligrams per kilogram (ppm=parts per million)

Organic tin = migration of total organic tin is expressed as tributyltin cation content in mg/kg

= Verified results (see note)

ND = Not detected

Detection Limit (mg/kg) :

Category III - Al : 2 ; Sb : 2 ; As : 2 ; Ba : 2 ; B : 2 ; Cd : 2 ; Cr III : 0.15 ; Cr VI : 0.025 ; Co : 2 ; Cu : 2 ; Pb : 2 ; Mn : 2 ; Hg : 2 ; Ni : 2 ; Se : 2 ; Sr : 2 ; Sn : 2 ; Organic tin : 2 ; Zn : 2

Remark:

- Results of Cr III and Cr VI were reported as sum of soluble Chromium content unless specified.
- Result(s) of organic tin was (were) calculated while assuming the tin content wholly contributed from tributyltin cation unless specified.
- The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.

Note:

If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method

- Chromium VI: BS EN 71-3:2019+A1:2021, Annex F by Ion-chromatography with ICP-MS detector analysis.
- Organic tin: BS EN 71-3:2019+A1:2021, Annex G by Gas Chromatography-Mass Spectroscopy analysis.

RESULTS:



RESULTS:



RESULTS:



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END OF REPORT