



**BUREAU  
VERITAS**

# TEST REPORT

LAB NO. : (9123)176-0274  
DATE : JULY 11, 2023  
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Applicant :  
GUANGDONG XINLEXIN EDUCATION AND CULTURE CO.,LTD  
Gounei industrial District in Lianxia Town Chenghai Shantou Guangdong China

Date of Submission: 2023-06-25  
Test Period: 2023-06-25 to 2023-07-11  
Sample Mode: Sample Presentation  
BV EE Ref. No. BV: /

Sample Description :	Sample(s) received is(are) stated to be: Educational toy		
Manufacturer:	/	Buyer:	/
Style No(s) :	/	PO No. :	/
Country of Origin:	CHINA	Country of Destination:	/
REFERENCE/TYPE:	70010,70009,70008,70007,70006,70005,70004,70003,70002,70001,60029,60028,60027,60026,60025,60022,60021,60020,60019,60018,60017,60016,60015,60014,60013,60012,60011,60010,60009,60008,60007,60006,60005,60004,60003,60002,60001,51013,51012,51011,51010,51009,51000,50507,50506,50505,50504,50503,50502,50501,50401,50202,50201,50104,50103,50102,50101,50002,50001,40603,40602,40601,40504,40405,40404,40403,40402,40401,40303,40302,40301,40206,40205,40204,40203,40202,40201,40004,40003,40002,40001,30207,30206,30203,30202,30201,30007,30006,30005,30004,30003,30002,30001,20406,20405,20404,20403,20402,20401,20107,20106,20105,20104,20103,20102,20101,11005,11004,11003,11002,11001,10804,10803,10802,10801,10704,10703,10702,10701,10503,10502,10501,10206,10205,10204,10203,10202,10201,10007,10006,10005,10004,10003,10002,10001,9615,9613,9606,9051,9050,9049,9048,9047,9046,9045,9044,9043,9042,9041,9040,9039,9038,9037,9036,9035,9034,9033,9032,9031,9030,9028,9027,9026,9024,9023,9022,9021,9020,9017,9016,9012,9011,9010,9009,9001,8816,8815,8720,8715,8713,8711,8028,8026,2926,2925,2924,2923,2922,2921,2918,2911,2908,2907,2901,2811,2810,2808,2808,2807,2806,2805,2803,2802,2801,2629,2624,2623,2622,2621,2618,2616,2616,2610,2609,2608,2607,2606,2605,2604,2603,2602,2601,2600,2568,2567,2566,2565,2563,2561,2554,2553,2551,2551,2531,2528,2527,2526,2525,2524,2523,2522,2521,2516,2515,2514,2513,2512,2511,2507,2506,2505,2504,2503,2502,2501,2201,2111,2102,2101,2015,2012,2011,2000,R604 ,R603,R602,R601,Q203,Q202,Q201,2911D,2828A,2811D,2507H,2230B,2220B,2210B,2120B,2110B,2103B,806230,806229,806228,806227,806226,806225,806224,806223,806222,806221,806220,806210,806209,806208,806207,806206,806205,806204,806203,806202,806201,806200		



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Test Item(s) :

Details see page 1

**SUMMARY OF TEST RESULTS**

<b>TEST REQUESTED</b>	<b>CONCLUSION</b>
The mechanical and physical properties requirements of the tested subclauses of the European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, clauses 1-6 .	PASS
The flammability requirements of the European Standard "Safety of Toys", EN 71: Part 2: 2020 .	PASS
The migration of certain elements in toy material requirements of the European Standard, "Safety of Toys" EN 71 Part 3: 2019+A1:2021.	PASS

Note: The tested part of the sample was specified by client.  
The composite testing was performed as per client's request.  
The test conclusion was given based on the results of tested part.



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**REMARK**

1. According to Toy Safety Directive 2009/48/EC, toys made available on the market must bear the CE marking. Manufacturers/importers shall indicate their name, registered trade name or registered trade mark and the address at which they can be contracted on the toy, packaging or document accompanying the toy and must ensure their toys bear a type, batch, serial or model number or other element allowing their identification.
2. No relevant packaging was provided with the submitted sample(s), consequently, evaluation of the labeling requirements of this European Standard, "Safety of toys", EN71: Part 1:2014+A1:2018, Clause 7, was not conducted.
3. The sample is tested for "OVER 3 YEARS OF AGE" as client's request.

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

General enquiry and invoicing

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**BUREAU VERITAS  
SHANGHAI LIMITED NANJING BRANCH**

SOPHIA YANG  
CLIENT ASSISTANT MANAGER

Laboratory Test Location :

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**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

Symbol	Explanation
NM	The samples are NOT IN COMPLIANCE WITH the requirement of this Subclause
M	The samples are IN COMPLIANCE WITH the requirement of this Subclause
N/A	Not Applicable
NR	Not Requested
NE	Not Evaluated
NP	None Present
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		



**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	M
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
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
*4.20.2.1-4.20.2.8, 4.20.2.10, 4.20.2.12	Acoustics	NA



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

Subclause	Requirement	Result
4.20.2.9, 4.20.2.11 & 7.14	Acoustics – percussion toys & cap-firing toys	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
<b>FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS</b>		
5.1	General	NA
5.1a	Small parts – as received	NA
5.1b	Small parts, sharp points, sharp edges – after tests	NA
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	NA
5.3	Adhesion of plastic sheeting	NA
5.4.2	Cords and chains in toys intended for children under 18 months	NA
5.4.3 & 7.22	Cords and chains in toys intended for children of 18 months or over but under 36 months	NA
5.4.4	Fixed loops, tangled loops and nooses	NA
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	NA
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	NA
<b>WARNINGS, INSTRUCTIONS FOR USE</b>		
7.1	General	SEE NOTE 2
7.2	Toys not intended for children under 36 months	SEE NOTE 2
7.5	Functional toys	SEE NOTE 2



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

**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	5.4.8	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		



**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	NA
*4.1	Flammable gases	NA
*4.1	Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels	NA
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 a child	NA
4.4	warning on product and packaging (10 – 30 mm/s)	NA
4.5	Soft-filled toys	NA

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

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	-	-



**Tested component(s) breakdown list**

Sample Identity	Color	Location	Style
A.	White coating on plastic	/	/
B.	Black coating on plastic	/	/
C.	Orange plastic	/	/
D.	Yellow plastic	/	/
E.	Red plastic	/	/
F.	Brown plastic	/	/
G.	Blue plastic	/	/
H.	Light brown plastic	/	/
I.	Green plastic	/	/
J.	Deep grey plastic	/	/
K.	Silver coating on plastic	/	/
L.	Pink plastic	/	/





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Parameter	Unit	Detection Limit	Result						Limit
			G.	H.	I.	J.	K.	L.	
<b>Category III</b>	-	-	-	-	-	-	-	-	-
Boron(B)	mg/kg	1500	ND	ND	ND	ND	ND	ND	15000
Aluminum(Al)	mg/kg	2813	ND	ND	ND	ND	ND	ND	28130
Chromium III (Cr III )	mg/kg	46	ND	ND	ND	ND	ND	ND	460
Chromium VI (Cr VI )	mg/kg	0.005	ND	ND	ND	ND	ND	ND	0.053
Manganese(Mn)	mg/kg	1500	ND	ND	ND	ND	ND	ND	15000
Cobalt(Co)	mg/kg	13	ND	ND	ND	ND	ND	ND	130
Nickel(Ni)	mg/kg	93	ND	ND	ND	ND	ND	ND	930
Copper(Cu)	mg/kg	770	ND	ND	ND	ND	ND	ND	7700
Zinc(Zn)	mg/kg	4600	ND	ND	ND	ND	ND	ND	46000
Arsenic(As)	mg/kg	4.7	ND	ND	ND	ND	ND	ND	47
Selenium(Se)	mg/kg	46	ND	ND	ND	ND	ND	ND	460
Strontium(Sr)	mg/kg	5600	ND	ND	ND	ND	ND	ND	56000
Cadmium(Cd)	mg/kg	1.7	ND	ND	ND	ND	ND	ND	17
Tin(Sn)	mg/kg	18000	ND	ND	ND	ND	ND	ND	180000
Organic tin compounds(OT)	mg/kg	1.2	ND	ND	ND	ND	ND	ND	12
Antimony(Sb)	mg/kg	56	ND	ND	ND	ND	ND	ND	560
Barium(Ba)	mg/kg	1875	ND	ND	ND	ND	ND	ND	18750
Mercury(Hg)	mg/kg	9.4	ND	ND	ND	ND	ND	ND	94
Lead(Pb)	mg/kg	2.3	ND	ND	ND	ND	ND	ND	23
<b>Conclusion</b>	-	-	PASS	PASS	PASS	PASS	PASS	PASS	-

Note / Key :

ND = Not detected

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

“>” = Greater than

g = gram(s)

Req. = Requirement

Remark:

#If combined Cr content exceeds 0.02mg/kg in I mat., 0.005 mg/kg in II mat., or 0.053mg/kg in III mat., confirmation Cr(VI) by IC-ICP-MS or IC-UV/VIS. Cr(III)=Combined Cr – Cr(VI)

\*Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

□The pH measured shall be reported after migration if it was outside the range of 1.1 to 1.3.



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**SAMPLE IMAGE**





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