



## HANGZHOU JINJUYOU TECHNOLOGY CO., LTD

**Technical Report:** (8822)108-0178

Jun 1, 2022

Date Received: Apr 18, 2022

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HANGZHOU JINJUYOU TECHNOLOGY CO., LTD  
ROOM 2501, BLOCK 3, NO. 300-11, NO. 10 STREET (EAST),  
QIANTANG NEW DISTRICT, HANGZHOU 310018, CHINA

Sample Description: PLASTIC BLOCKS TOY  
Style No(s): MNTL-T01/T02/T03/T04/T05/T06/T07/T08/T09/T10/T11/T12/T13/T14/T15/T16/T17/T18/  
T19/T20/G8111/G8117/G8118/G8119/G8120/G8121/G8122/G8123/G8124/G8125/  
P8202/G8213/G8217/G8218

Vendor: N/A  
Manufacturer: HANGZHOU JINJUYOU TECHNOLOGY CO., LTD

Labeled Age Grade: 3+  
Appropriate Age Grade: NOT REQUESTED  
Client Specified Age Grade: 3+ YEARS

Tested Age Grade: OVER 3 YEARS OF AGE  
UPC Code: N/A

Test Starting Date: APR 18, 2022

Sample Size: 12  
SKN/SKU No.: NOT PROVIDE

PO No.: NOT PROVIDE  
Ref #: NOT PROVIDE  
Country of Origin: CHINA

Assortment No.: NOT PROVIDE  
Country of Destination: EUROPE  
Further Information Date: MAY 6, 2022  
Test Finished Date: MAY 25, 2022

### 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	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	PASS

To be continued

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

BUREAU VERITAS SHENZHEN CO.,LTD  
DONGGUAN BRANCH

Harvey Xue  
Manager, Analytical Lab



Rose Ge  
Supervisor, Toys Lab

RT/ Joy Li

### REMARK

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

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**EXECUTIVE SUMMARY:**

Test Requested	Conclusion
Migration of Certain Elements in Category III - Scraped off toy material requirements of client's specification with reference to the European Standard, "Safety of toys", EN 71-3:2019+A1:2021	PASS
BBP, DBP, DEHP and DIBP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 51(amended up to EU No.2018/2005)	PASS
DNOP, DINP and DIDP content requirements of the European Regulation (EC) No. 1907/2006 of the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH), Annex XVII concerning the Restrictions on the manufacture, placing on the market and use of certain dangerous substances, preparations and articles, Item no. 52	PASS

Note: At the request of the client, the sample(s) was evaluated for use by children 3+ years.

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

Note: The composite test sample(s) of the submitted samples was prepared in the manner requested by the client, when subject to the test performed.



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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I001	Purple coating	Ball	-
I002	Dark purple coating	Ball	-
I003	Blue coating	Ball	-
I004	Dark blue coating	Ball	-
I005	White coating	Ball	-
I006	Yellow coating	Ball	-
I007	Red coating	Ball	-
I008	Light red coating	Ball	-
I009	Orange coating	Ball	-
I010	Green coating	Ball	-
I011	Beige coating	Ball	-
I012	Cyan coating	Ball	-
I013	Black coating	Car	-
I014	Silver coating	Car	-
I015	Transparent Red plastic	Magnet Block	-
I016	Transparent Orange plastic	Magnet Block	-
I017	Transparent Yellow plastic	Magnet Block	-
I018	Transparent Green plastic	Magnet Block	-
I019	Transparent Blue plastic	Magnet Block	-
I020	Transparent Purple plastic	Magnet Block	-
I021	Transparent plastic	Magnet Block	-
I022	Transparent Pink plastic	Magnet Block	-
I023	Transparent Light yellow plastic	Magnet Block	-
I024	Transparent Light green plastic	Magnet Block	-
I025	Transparent Light purple plastic	Magnet Block	-
I026	Transparent Light blue plastic	Magnet Block	-
I027	Black plastic	Wheel of flat car	-
I028	Orange red plastic	Car	-
I029	Light blue plastic	Car	-
I030	Translucent plastic	Wheel of car	-
I031	Transparent soft plastic	Wheel of car	-
I032	Transparent plastic	Bottom of car	-



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**Tested Component(s) Description List:**

Test Item(s)	Item / Component Description(s)	Location(s)	Style(s)
I033	Bright black plastic	Switch of car	-
I034	Gray plastic	Sign	-
I035	Clear laminated multicolor printed white paper with adhesive	Sticker	-
I036	Beige wood	Ball	-
I037	Silvery metal	Axle of flat car	-
I038	Gold plated silvery metal	Rivet of Magnet Block	-



**RESULTS:**

**APPROPRIATE AGE GRADE DETERMINATION**

<p>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).</p>	
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		

**RESULTS:**

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

<b>Subclause</b>	<b>Requirement</b>	<b>Result</b>
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	NA
4.10.1	Folding and sliding mechanisms	NA
4.10.2	Driving mechanisms	M
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 projectiles 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	NA
*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	M
4.23	Magnet	
4.23.2 a, b & c	Toy other than magnetic / electrical experimental sets intended for children over 8 years	M
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



**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	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	M
7.2	Toys not intended for children under 36 months	M
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





**BUREAU  
VERITAS**

HANGZHOU JINJUYOU TECHNOLOGY CO., LTD

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**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		



**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	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 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	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*



**RESULTS:**

**Migration of Certain Elements - client's specification with reference to EN 71-3:2019+A1:2021**

Test Method: With reference to 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
Aluminium (Al)	28130	84	100	270	100	430
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	4	ND
Barium (Ba)	18750	ND	3	ND	3	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	2	ND
Mercury (Hg)	94	ND	ND	ND	ND	ND
Manganese (Mn)	15000	3	5	4	9	10
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	3	8	2	3	3
Zinc (Zn)	46000	20	26	41	18	49
Mass of trace amount (gram)		0.0570	0.0464	-	0.0837	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I006	I007	I008	I009	I010
Aluminium (Al)	28130	230	56	300	250	38
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	4	ND	3	5	9
Barium (Ba)	18750	ND	8	4	2	2
Cadmium (Cd)	17	ND	ND	ND	ND	ND
Cobalt (Co)	130	ND	ND	ND	ND	ND
Chromium III (Cr III)	460	ND	0.18	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	3	7	8	7	11
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	3	49	7	5	8
Zinc (Zn)	46000	32	15	45	75	10
Mass of trace amount (gram)		0.0733	0.0610	0.0808	0.0982	0.0596
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I011	I012	I013	I015	I016
Aluminium (Al)	28130	370	350	530	2	ND
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	2	2	ND	ND	ND
Barium (Ba)	18750	2	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	5	7	ND	ND	ND
Nickel (Ni)	930	ND	ND	ND	ND	ND
Lead (Pb)	23	ND	ND	2	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	5	4	ND	ND	ND
Zinc (Zn)	46000	46	49	7	ND	ND
Mass of trace amount (gram)		0.0984	0.0855	0.0355	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I017	I018	I019	I020	I021
Aluminium (Al)	28130	ND	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	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I022	I023	I024	I025	I026
Aluminium (Al)	28130	ND	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	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I027	I028	I029	I030	I031
Aluminium (Al)	28130	3	6	9	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	ND	ND	ND	ND	ND
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS





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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I032	I033	I034	I035	I036
Aluminium (Al)	28130	ND	ND	2	130	8
Arsenic (As)	47	ND	ND	ND	ND	ND
Boron (B)	15000	ND	ND	ND	ND	ND
Barium (Ba)	18750	ND	ND	ND	3	15
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	4	21
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	9	23
Zinc (Zn)	46000	2	ND	ND	2	3
Mass of trace amount (gram)		-	0.0785	-	-	-
Conclusion		PASS	PASS	PASS	PASS	PASS



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**RESULTS:**

Analyte	Requirement (mg/kg)	Result (mg/kg)				
		Test Item(s)				
	Category III	I037	I038	-	-	-
Aluminium (Al)	28130	ND	ND	-	-	-
Arsenic (As)	47	ND	ND	-	-	-
Boron (B)	15000	2	ND	-	-	-
Barium (Ba)	18750	ND	ND	-	-	-
Cadmium (Cd)	17	ND	ND	-	-	-
Cobalt (Co)	130	ND	ND	-	-	-
Chromium III (Cr III)	460	2.01	ND	-	-	-
Chromium VI (Cr VI)	0.053	ND#	ND	-	-	-
Copper (Cu)	7700	ND	1080	-	-	-
Mercury (Hg)	94	ND	ND	-	-	-
Manganese (Mn)	15000	8	ND	-	-	-
Nickel (Ni)	930	34	ND	-	-	-
Lead (Pb)	23	ND	ND	-	-	-
Antimony (Sb)	560	ND	ND	-	-	-
Selenium (Se)	460	ND	ND	-	-	-
Tin (Sn)	180000	ND	ND	-	-	-
Organic tin	12	ND	ND	-	-	-
Strontium (Sr)	56000	ND	ND	-	-	-
Zinc (Zn)	46000	ND	820	-	-	-
Mass of trace amount (gram)		-	-	-	-	-
Conclusion		PASS	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.



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**RESULTS:**

**BBP/DBP/DEHP/DIBP Contents in Toys and Childcare Articles – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 51**

Test Method : With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

Test Parameter:	BBP	DBP	DEHP	DIBP	SUM	-
Limit (%):	0.1 (Sum of Four phthalates)					-
Test Item(s)	Result (%)					Conclusion
I001+I002+I003	ND	ND	ND	ND	ND	PASS
I004+I005+I006	ND	ND	ND	ND	ND	PASS
I007+I008+I009	ND	ND	ND	ND	ND	PASS
I010+I011+I012	ND	ND	ND	ND	ND	PASS
I013+I014	ND	ND	ND	ND	ND	PASS
I015+I016+I017	ND	ND	ND	ND	ND	PASS
I018+I019+I020	ND	ND	ND	ND	ND	PASS
I021+I022+I023	ND	ND	ND	ND	ND	PASS
I024+I025+I026	ND	ND	ND	ND	ND	PASS
I027	ND	ND	ND	ND	ND	PASS
I028+I029+I030	ND	ND	ND	ND	ND	PASS
I031+I032+I033	ND	ND	ND	ND	ND	PASS
I034+I035	ND	ND	ND	ND	ND	PASS

Note / key:

BBP = Butyl benzyl phthalate

DEHP = Di(2-ethylhexyl) phthalate

ND = Not detected

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005

DBP = Dibutyl phthalate

DIBP= Diisobutyl phthalate

% = percent

10000 mg/kg = 1 %



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**RESULTS:**

**DNOP/DINP/DIDP Contents in Toys and Childcare Articles which can be placed in the Mouth by the Children – European Regulation (EC) No. 1907/2006 REACH Annex XVII, Item no. 52**

Test Method : With referenced to EN 14372:2004 Section 6.3.2, sample was extracted with organic solvent and then analyzed by Gas Chromatograph Mass Spectrometer

Test Parameter:	DIDP	DINP	DNOP	SUM	-
Limit (%):	0.1 (Sum of three phthalates)				-
Test Item(s)	Result (%)				Conclusion
I001+I002+I003	ND	ND	ND	ND	PASS
I004+I005+I006	ND	ND	ND	ND	PASS
I007+I008+I009	ND	ND	ND	ND	PASS
I010+I011+I012	ND	ND	ND	ND	PASS
I013+I014	ND	ND	ND	ND	PASS
I015+I016+I017	ND	ND	ND	ND	PASS
I018+I019+I020	ND	ND	ND	ND	PASS
I021+I022+I023	ND	ND	ND	ND	PASS
I024+I025+I026	ND	ND	ND	ND	PASS
I027	ND	ND	ND	ND	PASS
I028+I029+I030	ND	ND	ND	ND	PASS
I031+I032+I033	ND	ND	ND	ND	PASS
I034+I035	ND	ND	ND	ND	PASS

Note / key:

DNOP = Di-n-octyl phthalate

DINP = Di-iso-nonyl phthalate

DIDP = Di-iso-decyl phthalate

ND = Not detected

% = percent

10000 mg/kg = 1 %

mg/kg = milligram(s) per kilogram

Detection Limit (%) : Each 0.005



**BUREAU  
VERITAS**

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**RESULTS:**





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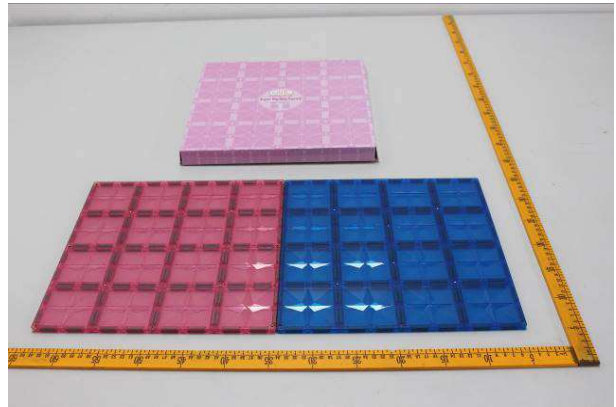
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**RESULTS:**





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**RESULTS:**



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