

HAPE INTERNATIONAL (NINGBO) LTD
 HAPPY ARTS&CRAFTS (NINGBO) CO., LTD
 9-27NANHAI ROAD, DAGANG INDUSTRIAL CITY, BEILUN, NINGBO, CHINA

Sample Description : HAPPY FAMILY - CAUCASIAN/ HAPPY FAMILY-
 AFRICAN AMERICAN/ HAPPY FAMILY - ASIAN

Sample Quantity : 18 SETS

Style / Item No. : E3500/ E3501/ E3502

Country of Origin : CHINA

Country of Destination : GLOBAL

Labeled Age Grading : 3Y+

Requested Age Grading : 3Y+

Client reference information : E3500A/E3501A/E3502A

Asin No : B00713P9SC/B006WZO7HE/ B0071BFMDQ

Age Group Assessed as Per Age Guideline : 3+YEARS

Age Group Applied in Testing : 3+YEARS

Sample Receiving Date : DEC 01, 2021

Further Information Date : DEC 17, 2021

Testing Period : DEC 01, 2021 TO DEC 17, 2021

<u>Test Requested</u>	<u>Result</u>
EN 71-1: 2014+A1: 2018 – Safety of toys – Part 1: Mechanical and Physical Properties	<u>Pass</u>
Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys	<u>See Result</u>
EN 71-2: 2011+A1: 2014 – Safety of toys – Part 2: Flammability	<u>Pass</u>
EN 71-2:2020 – Safety of toys – Part 2: Flammability	<u>Pass</u>
Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 - EN71-3: 2019 – Migration of certain elements (Category III:for scrapped-off toy material)	<u>Pass</u>
COMMISSION IMPLEMENTING DECISION (EU) 2021/1992 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 – Migration of certain elements (Category III:for scrapped-off toy material)	<u>Pass</u>

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****



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Signed for and on behalf of
SGS-CSTC Standards Technical Services (Shanghai) Co., Ltd.

Jessie Zhou



Jessie Zhou
Authorized Signatory



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Results:

EN 71-1: 2014+A1: 2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

AS SPECIFIED IN EN 71-1: 2014+A1: 2018 – SAFETY OF TOYS – PART 1: MECHANICAL AND PHYSICAL PROPERTIES

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	General requirements	
4.1	Material cleanliness	<u>Pass</u>
4.7	Edges	<u>Pass</u>
4.8	Points and metallic wires	<u>Pass</u>
7	Warnings, markings and instructions for use	
7.1	General Requirements	<u>Pass</u>
	Note: Please note that for assessing the visibility and legibility of warnings, CEN has introduced good practice in the informative Annex A.33 by addressing the following aspects:	
	a) Emphasising the warning	
	b) Contrast, background and colours	
	c) Reflecting surfaces and obscuring material	
	d) Font type	
	e) Font size	
	f) Logical direction of text	
	For more details, see EN 71-1.	
7.2	Toys not intended for children under 36 months (Remark: The toy contains small part. It is acceptable because appropriate warning is found on packaging.)	<u>Pass</u> <u>See Remark</u>

Only English warnings were checked for the clause 7. According to 2009/48/EC, warnings and safety instructions shall be written in a language or languages easily understood by consumers.

LABELING REQUIREMENT (WASHING/CLEANING INSTRUCTION, CE MARK, IMPORTER / MANUFACTURER NAME AND ADDRESS, PRODUCT IDENTIFICATION) ACCORDING TO THE DIRECTIVE 2009/48/EC – SAFETY OF TOYS

Summary table:

	Observation Result	Location
Washing/Cleaning instruction	Not applicable	/
CE Mark	Present	Packaging
Importer's Name & Address	Present	Packaging
Manufacturer's Name & Address	Present	Packaging
Product ID	Present	Packaging



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Note:

1. According to Directive 2009/48/EC, 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. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soaked washable.
2. CE marking should be visible from outside the packaging and its height must be at least 5mm.
3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.
4. Manufacturers must 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.

EN 71-2: 2011+A1: 2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2: 2011+A1: 2014 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

AS SPECIFIED IN EN 71-2:2020 – SAFETY OF TOYS – PART 2: FLAMMABILITY

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.1	General requirements	<u>Pass</u>

N.B. : - Only applicable clauses were shown.



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Test Part Description :

Specimen No.	SGS Sample ID	Description
SN1	SHA21-268537.001	Natural color wood
SN2	SHA21-268537.002	Cream POM hand
SN3	SHA21-268537.003	Brown POM hand
SN4	SHA21-268537.004	Lt.Green coating
SN5	SHA21-268537.005	Dk.Blue coating
SN6	SHA21-268537.006	Pink coating
SN7	SHA21-268537.007	Lt.Pink coating
SN8	SHA21-268537.008	Dk.Pink coating
SN9	SHA21-268537.009	Red coating
SN10	SHA21-268537.010	Yellow coating
SN11	SHA21-268537.011	Brown coating
SN12	SHA21-268537.012	Black coating
SN13	SHA21-268537.013	Grey coating
SN14	SHA21-268537.014	Transparent coating
SN15	SHA21-268537.015	Red fabric(Thick)
SN16	SHA21-268537.016	Yellow felt
SN17	SHA21-268537.017	Dk.Blue pants
SN18	SHA21-268537.018	Golden thread hair
SN19	SHA21-268537.019	Colorful fabric shirt
SN20	SHA21-268537.020	Lt.Yellow fabric
SN21	SHA21-268537.021	Lt.Grey fabric pants
SN22	SHA21-268537.022	Brown thread hair
SN23	SHA21-268537.023	Beige/Black fabric
SN24	SHA21-268537.024	Black fabric pants
SN25	SHA21-268537.025	Grey thread hair
SN26	SHA21-268537.026	Blue fabric with white dot
SN27	SHA21-268537.027	Green fabric
SN28	SHA21-268537.028	White fabric with green/Yellow
SN29	SHA21-268537.029	Orange felt
SN30	SHA21-268537.030	Yellow thread hair
SN31	SHA21-268537.031	Rose fabric
SN32	SHA21-268537.032	White fabric
SN33	SHA21-268537.033	Blue fabric
SN34	SHA21-268537.034	Orange fabric
SN35	SHA21-268537.035	Black thread hair
SN36	SHA21-268537.036	White/Green fabric
SN37	SHA21-268537.037	Beige/Brown fabric
SN38	SHA21-268537.038	Grey fabric pants
SN39	SHA21-268537.039	Lt.Pink fabric
SN40	SHA21-268537.040	Red fabric(Thin)
SN41	SHA21-268537.041	White ribbon
SN42	SHA21-268537.042	Yellow fabric with orange
SN43	SHA21-268537.043	White mesh edge
SN44	SHA21-268537.044	Yellow fabric
SN45	SHA21-268537.045	Blue/White fabric
SN46	SHA21-268537.046	Dk.Turquoise fabric
SN47	SHA21-268537.047	Lt.Brown fabric
SN48	SHA21-268537.048	White fabric with red dot



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SN49 SHA21-268537.049 White fabric with pink/Yellow
 SN50 SHA21-268537.050 Pink fabric

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Directive 2009/48/EC and its amendment Commission Directive (EU) 2019/1922 - EN71-3: 2019 – Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	73	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	-
Soluble Lead (Pb)	23	mg/kg	5	---	---	---
Soluble Antimony (Sb)	560	mg/kg	10	---	---	---
Soluble Arsenic (As)	47	mg/kg	10	---	---	---
Soluble Barium (Ba)	18750	mg/kg	50	---	---	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	-
Soluble Mercury (Hg)	94	mg/kg	10	---	---	---
Soluble Selenium (Se)	460	mg/kg	10	---	---	---
Soluble Boron (B)	15000	mg/kg	50	---	---	---
Soluble Cobalt (Co)	130	mg/kg	10	---	---	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	---
Soluble Copper (Cu)	7700	mg/kg	50	---	---	---
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	---
Soluble Nickel (Ni)	930	mg/kg	10	---	---	---
Soluble Tin (Sn)	180000	mg/kg	3	---	---	---
Soluble Organic Tin*	12	mg/kg	-	---	---	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	ND
Soluble Lead (Pb)	23	mg/kg	5	---	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	---	ND
Soluble Arsenic (As)	47	mg/kg	10	---	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	---	ND
Soluble Selenium (Se)	460	mg/kg	10	---	---	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Boron (B)	15000	mg/kg	50	---	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	62
Soluble Copper (Cu)	7700	mg/kg	50	---	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	---	ND
Soluble Organic Tin*	12	mg/kg	-	---	---	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	-	-
Soluble Lead (Pb)	23	mg/kg	5	ND	---	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	---	---
Soluble Arsenic (As)	47	mg/kg	10	ND	---	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	---	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	---	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	-	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	---	---
Soluble Selenium (Se)	460	mg/kg	10	ND	---	---
Soluble Boron (B)	15000	mg/kg	50	ND	---	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	---	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	---	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	---	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	---	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	---	---
Soluble Aluminum (Al)	28130	mg/kg	50	84	---	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	---	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	---	---
Soluble Organic Tin*	12	mg/kg	-	ND	---	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>029</u>	<u>030</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	-	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	---	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	---	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	---	ND
Soluble Boron (B)	15000	mg/kg	50	ND	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	---	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	---	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>029</u>	<u>030</u>
Soluble Organic Tin*	12	mg/kg	-	ND	---	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>	<u>033</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>	<u>035</u>	<u>036</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>	<u>035</u>	<u>036</u>
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>	<u>039</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>	<u>041</u>	<u>042</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	14
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND



<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>	<u>041</u>	<u>042</u>
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>	<u>044</u>	<u>045</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>046</u>	<u>047</u>	<u>048</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>046</u>	<u>047</u>	<u>048</u>
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	93	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>049</u>	<u>050</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND

Notes :

- (1) According to the Commission Implementing Decision (EU) 2021/867 of 28 May 2021, published in the OJEU. The EN 71-3:2019 is adopted as the harmonised standard for toys drafted in support of Directive 2009/48/EC.
- (2) Mass of trace amount of sample 009 is 30.0mg, sample 010 is 31.3mg, sample 014 is 38.8mg, sample 016 is 28.0mg, sample 018 is 35.2mg, sample 020 is 93.9mg, sample 022 is 18.7mg, sample 024 is 80.3mg, sample 025 is 85.3mg, sample 030 is 64.4mg, sample 031 is 75.5mg, sample 033 is 94.0mg, sample 035 is 55.2mg, sample 036 is 79.4mg, sample 041 is 20.3mg, sample 043 is 31.2mg, sample 045 is 80.6mg, sample 046 is 93.6mg, sample 050 is 85.6mg.
- (3) As received, the test portion of 004, 005, 006, 007, 008, 011, 012, 013, 029 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019.
- (4) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019.



COMMISSION IMPLEMENTING DECISION (EU) 2021/1992 on harmonised standards for toys drafted in support of Directive 2009/48/EC - EN71-3: 2019+A1:2021 – Migration of certain elements (Category III:for scrapped-off toy material)

Test Method : With reference to EN 71-3:2019+A1:2021, analysis was performed by ICP-OES, IC-UV or LC-ICP-MS.

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>001</u>	<u>002</u>	<u>003</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	73	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	-
Soluble Lead (Pb)	23	mg/kg	5	---	---	---
Soluble Antimony (Sb)	560	mg/kg	10	---	---	---
Soluble Arsenic (As)	47	mg/kg	10	---	---	---



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>004</u>	<u>005</u>	<u>006</u>
Soluble Barium (Ba)	18750	mg/kg	50	---	---	---
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	-
Soluble Mercury (Hg)	94	mg/kg	10	---	---	---
Soluble Selenium (Se)	460	mg/kg	10	---	---	---
Soluble Boron (B)	15000	mg/kg	50	---	---	---
Soluble Cobalt (Co)	130	mg/kg	10	---	---	---
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	---
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	---
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	---
Soluble Copper (Cu)	7700	mg/kg	50	---	---	---
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	---
Soluble Nickel (Ni)	930	mg/kg	10	---	---	---
Soluble Tin (Sn)	180000	mg/kg	3	---	---	---
Soluble Organic Tin*	12	mg/kg	-	---	---	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>007</u>	<u>008</u>	<u>009</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	-	ND
Soluble Lead (Pb)	23	mg/kg	5	---	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	---	ND
Soluble Arsenic (As)	47	mg/kg	10	---	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	---	ND
Soluble Selenium (Se)	460	mg/kg	10	---	---	ND
Soluble Boron (B)	15000	mg/kg	50	---	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	---	62
Soluble Copper (Cu)	7700	mg/kg	50	---	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	---	ND
Soluble Organic Tin*	12	mg/kg	-	---	---	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>010</u>	<u>011</u>	<u>012</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	-	-
Soluble Lead (Pb)	23	mg/kg	5	ND	---	---
Soluble Antimony (Sb)	560	mg/kg	10	ND	---	---
Soluble Arsenic (As)	47	mg/kg	10	ND	---	---
Soluble Barium (Ba)	18750	mg/kg	50	ND	---	---
Soluble Cadmium (Cd)	17	mg/kg	5	ND	---	---
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	-	-
Soluble Mercury (Hg)	94	mg/kg	10	ND	---	---
Soluble Selenium (Se)	460	mg/kg	10	ND	---	---
Soluble Boron (B)	15000	mg/kg	50	ND	---	---
Soluble Cobalt (Co)	130	mg/kg	10	ND	---	---
Soluble Manganese (Mn)	15000	mg/kg	50	ND	---	---
Soluble Strontium (Sr)	56000	mg/kg	50	ND	---	---
Soluble Zinc (Zn)	46000	mg/kg	50	ND	---	---
Soluble Copper (Cu)	7700	mg/kg	50	ND	---	---
Soluble Aluminum (Al)	28130	mg/kg	50	84	---	---
Soluble Nickel (Ni)	930	mg/kg	10	ND	---	---
Soluble Tin (Sn)	180000	mg/kg	3	ND	---	---
Soluble Organic Tin*	12	mg/kg	-	ND	---	---

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	-	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	---	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	---	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	---	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	---	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	---	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	-	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	---	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	---	ND	ND
Soluble Boron (B)	15000	mg/kg	50	---	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	---	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	---	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	---	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	---	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	---	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	---	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	---	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	---	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>013</u>	<u>014</u>	<u>015</u>
Soluble Organic Tin*	12	mg/kg	-	---	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>016</u>	<u>017</u>	<u>018</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>019</u>	<u>020</u>	<u>021</u>
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>022</u>	<u>023</u>	<u>024</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>025</u>	<u>026</u>	<u>027</u>
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>028</u>	<u>029</u>	<u>030</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	-	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	---	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	---	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	---	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	---	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	---	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	-	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	---	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	---	ND
Soluble Boron (B)	15000	mg/kg	50	ND	---	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	---	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	---	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	---	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	---	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	---	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	---	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	---	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	---	ND
Soluble Organic Tin*	12	mg/kg	-	ND	---	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>	<u>033</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>031</u>	<u>032</u>	<u>033</u>
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>034</u>	<u>035</u>	<u>036</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>	<u>039</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND



<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>037</u>	<u>038</u>	<u>039</u>
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>040</u>	<u>041</u>	<u>042</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	15
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>	<u>044</u>	<u>045</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>043</u>	<u>044</u>	<u>045</u>
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>046</u>	<u>047</u>	<u>048</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND	ND



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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>049</u>	<u>050</u>
Soluble Chromium (VI) (Cr VI)	0.053	mg/kg	0.025	ND	ND
Soluble Lead (Pb)	23	mg/kg	5	ND	ND
Soluble Antimony (Sb)	560	mg/kg	10	ND	ND
Soluble Arsenic (As)	47	mg/kg	10	ND	ND
Soluble Barium (Ba)	18750	mg/kg	50	ND	ND
Soluble Cadmium (Cd)	17	mg/kg	5	ND	ND
Soluble Chromium (III) (Cr III)	460	mg/kg	5	ND	ND
Soluble Mercury (Hg)	94	mg/kg	10	ND	ND
Soluble Selenium (Se)	460	mg/kg	10	ND	ND
Soluble Boron (B)	15000	mg/kg	50	ND	ND
Soluble Cobalt (Co)	130	mg/kg	10	ND	ND
Soluble Manganese (Mn)	15000	mg/kg	50	ND	ND
Soluble Strontium (Sr)	56000	mg/kg	50	ND	ND
Soluble Zinc (Zn)	46000	mg/kg	50	ND	ND
Soluble Copper (Cu)	7700	mg/kg	50	ND	ND
Soluble Aluminum (Al)	28130	mg/kg	50	ND	ND
Soluble Nickel (Ni)	930	mg/kg	10	ND	ND
Soluble Tin (Sn)	180000	mg/kg	3	ND	ND
Soluble Organic Tin*	12	mg/kg	-	ND	ND

Notes :

- (1) According to the Commission Implementing Decision (EU) 2021/1992 of November 15, 2021, published in the OJEU. The EN 71-3:2019+A1:2021 is adopted as the harmonized standard for toys drafted in support of Directive 2009/48/EC.
- (2) Mass of trace amount of sample 009 is 30.0mg, sample 010 is 31.3mg, sample 014 is 38.8mg, sample 016 is 38.0mg, sample 018 is 44.2mg, sample 020 is 90.7mg, sample 022 is 16.6mg, sample 023 is 96.1mg, sample 027 is 83.5mg, sample 030 is 95.4mg, sample 032 is 91.4mg, sample 035 is 36.8mg, sample 041 is 14.4mg, sample 043 is 18.8mg, sample 045 is 85.7mg, sample 046 is 89.5mg, sample 050 is 93.2mg.
- (3) As received, the test portion of 004, 005, 006, 007, 008, 011, 012, 013, 029 is less than 10mg, therefore such components were not tested for migration of certain elements, as specified in the European Standard EN 71-3:2019+A1:2021.
- (4) *Confirmation test of soluble organic tin is not required in case of soluble tin, after conversion, does not exceed the soluble organic tin requirement as specified in EN 71-3:2019+A1:2021.

Remark:

The test results 001, 013 are taken from report SHA21-228301.016, 011
The test results 009 are taken from report SHA21-194660.004
The test results 010, 011 are taken from report SHA21-205023.010, 019
The test results 012, 014 are taken from report SHA21-207629.009, 014

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- The declaration of conformity is based on non-binary acceptance decision rules with guard band, and the guard band length parameter is 0. When the measured value falls in the guard band limit, the declaration of conformity is "Conditional PASS" or "Conditional FAIL".

Sample Photo:



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