

Report No.: **244366310a 001**

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**Client:** HAPPY ARTS&CRAFTS(NINGBO)CO.,LTD

**Contact Information:** HAPE INTERNATIONAL(NINGBO)LTD  
9-27Nanhai Road, Dagang industrial City, Beilun, Ningbo, China

**Test item(s):** Toy

**Identification/  
Model No(s):** Refer to detail list

**Sample obtaining method:** Sending by customer

**Condition at delivery:** Test item complete and undamaged.

**Sample Receiving date:** 2021-10-13

**Testing Period:** 2021-10-13 to 2021-10-15

**Place of testing:** Chemical laboratory Shanghai, Toys laboratory Shanghai

**Test Specification:**

Please refer to "Test Result Summary List" on page 2 for details

**Other information:**

Country of Origin: China

Sales Destination: Global

Packaging provided: Artwork

The provided age grade of the item: M001 Over 24 months; M002 Over 18 months; M003 Over 36 months.

The appropriate age grade of the item: Over 18 months.

The item was tested over 18 months.

For and on behalf of  
TÜV Rheinland (Shanghai) Co., Ltd.



Wice Wang/  
General Manager

Rainbow Xu/  
Senior Technical Executive

2021-10-18

2021-10-18

Date

Name/Position

Date

Name/Position

*Sample information is provided by customer. Test result is drawn according to the kind and extent of tests performed.*

*This test report relates to the above mentioned test sample. Without permission of the test center this test report is not permitted to be duplicated in extracts. This test report does not entitle to carry any safety mark on this or similar products.*

*"Decision Rule" document announced in our website (<https://www.tuv.com/landingpage/en/qm-gcn/>) describes the statement of conformity and its rule of enforcement for test results are applicable throughout this test report.*

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## Test Result Summary :

### *Test Specification:*

- 1 EN 71-1:2014+A1:2018 Mechanical and physical properties
- 2 2009/48/EC CE marking
- 3 2009/48/EC Labeling Requirement  
(Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)
- 4 EN 71-2 : 2020 Flammability
- 5 EN 71-2:2011+A1:2014 Flammability
- 6 EN 71-3:2019+A1:2021 Migration of 19 Elements

### *Test result:*

PASS  
PASS  
Please refer to result page  
PASS  
PASS  
PASS



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ASIN NO.	ITEM NO.	ITME DESCRIPTION EN	ITME DESCRIPTION CN	Global
B0837KQXBG	E3164,E3164A,E3164B,E3164C	Fun Fan Fryer	厨房玩具—电动旋风炒锅	24M+
B0837KSKK9	E3170, E3170A(E8499,E8499A)	Toddler Kitchen Set	萌宝厨房玩具套装	18M+
B074PXV5Q4	E3147,E3147A	Mix & Bake Blender	北欧风面粉搅拌机	3Y+



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**Material List:**

Item: Refer to detail list

Material No.	Material	Color	Location	Remark
M001	Whole Product	Multicolor	Fun Fan Fryer #E3164,E3164A,E3164B,E3164C	
M002	Whole Product	Multicolor	Toddler Kitchen Set #E3170, E3170A(E8499,E8499A)	
M003	Whole Product	Multicolor	Mix & Bake Blender #E3147,E3147A	
M004	Wood	Nature	Solid Wood	Refer to 244357923/M007
M005	Wood	Nature	Plywood	Refer to 244352423/M004
M006	Wood	Nature	MDF	Refer to 244346170/M005
M007	Coating	Transparent	On wood	Refer to 244357923/M015
M008	Coating	Brown	On wood	Refer to 244346170/M015
M009	Coating	Black	On wood	Refer to 244357923/M013
M010	Coating	Red	On wood	Refer to 244357923/M010
M011	Coating	Silver	On wood	Refer to 244357923/M012
M012	Coating	White	On wood	Refer to 244357923/M011
M013	Plastic	Red	Pepper	Refer to 244357923/M025
M014	Plastic	White	Sugger	Refer to 244357923/M045
M016	Plastic	Grey	Pan	Refer to 244357923/M037
M017	Plastic	White	Cooker, Battery cover, Bowl	Refer to 244357923/M032
M018	Plastic	Grey	On cooker. E3164	
M019	Plastic	Black	Fan. E3164	
M020	Foam + adhesive	Black	In battery cover. E3164	
M021	Textile	Grey	Felt. E3164	



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M022	Paper + printing + adhesive	Multicolor	Stickers on felt. E3164	
M024	Coating	Blue	On wood	Refer to 244352423/M012
M025	Coating	Lt.grey	On wood	Refer to 244357923/M020
M026	Plastic	Red	Cooker, Spatula, Knob. E3170, E3147	Refer to 244357923/M025
M027	Plastic	Blue	Pot. E3170	
M028	Coating	Blue	On bag. E3147	
M029	Coating	Orange	On bag. E3147	
M030	Plastic	Semitransparent	Screw. E3147	Refer to 244357923/M041
M031	Plastic + Textile	White	Elastic cord. E3147	Refer to 244352423/M017
M032	Textile	White	Bag. E3147	
M033	Textile	White+Black	Label. E3147	
M034	Textile	White+Brown	Label. E3147	



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**1. EN 71-1:2014+A1:2018 Mechanical and physical properties**

Test No:	T001
Material No:	M001-M003
<b>4. General requirements</b>	
4.1 Material cleanliness	PASS
4.7 Edges	PASS
4.8 Points and metallic wires	PASS
4.20 Acoustics	PASS*1
<b>5. Toys intended for children under 36 months</b>	
5.1 General requirements	PASS
5.2 Soft-filled toys and soft-filled parts of a toy	PASS
5.4 Cords, chains and electrical cables in toys	PASS*3
<b>6. Packaging</b>	PASS*2

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

**Remark:**

- \*1 This clause is only applicable to M001 and M002.
- \*2 This clause is only applicable to M001 and M003.



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**2. 2009/48/EC CE Marking**
**Test result:**

	Test No:	T001
	Material No:	M001-M003
CE-marking		PASS

**3. 2009/48/EC Labeling Requirement (Importer/ Manufacturer Mark, Product Identification, Washing/ Cleaning instruction)**
**Test result:**

	Test No:	T001
	Material No:	M001-M002
Importer/ Manufacturer Mark (European Company name and address)+		Present on product and package
Product Identification - type, batch, serial or model number+		Present on product and package
	Test No:	T002
	Material No:	M003
Importer/ Manufacturer Mark (European Company name and address)+		Present on product and package
Product Identification - type, batch, serial or model number+		Present on product and package
Washing/ Cleaning instruction ^		Present

**Remark:**

- + These labeling shall be indicated on the toy, or where that is not possible, on its packaging or in documents accompanying the toys.

The correct adherence to all requirements according to directive 2009/48/EC in regards to the marking (name or trademark and contact address of the manufacturer respectively the marking for identification [type, batch, model or serial no.]) of the toy can only be confirmed by the manufacturer, his delegate or the person who brings it onto the market. The marked article were assessed, however, they can not be evaluated in the frame of this test.

- ^ 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 shall, to this end, be washable, except if it contains a mechanism that may be damaged if soak washed. The toy shall fulfill the safety requirements also after having been cleaned in accordance with this point and the manufacturer's instructions.



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**#4.EN 71-2 : 2020 Flammability**

**Test result:**

	Test No:	T001
	Material No:	M001-M003
4.1 General		PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.

# The test is not covered by CNAS accreditation.





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**5. EN 71 - 2: 2011+A1 :2014 Flammability****Test result:**

	Test No:	T001
	Material No.	M001-M003
4.1 General		PASS

The clause and/or sub-clause would be indicated only in the test report whichever applicable. The comprehensive result report is available upon request.



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**#6. EN 71-3:2019+A1:2021 Migration of 19 Elements**

Test Method: with reference to EN 71-3:2019+A1:2021, analyzed by ICP-OES / ICP-MS / LC-ICP-MS.

**3) For scraped-off toy materials:**
**Test Result:**

				Test No.	T001	T002	T003
				Material No.	M004	M005	M006
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	22.6	
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	
Barium (Ba)	mg/kg	2.5	18,750	6.7	6.9	19.2	
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL	
Manganese (Mn)	mg/kg	2.5	15,000	126	3.7	128	
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	
Strontium (Sr)	mg/kg	2.5	56,000	< RL	10.7	6.9	
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	< RL	39.9	< RL	

**Abbreviation:**

- < less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal



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**Test Result:**

				Test No.	T004	T005	T006
				Material No.	M007	M009	M010
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	29.0	2750	116	
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	
Barium (Ba)	mg/kg	2.5	18,750	4.8	5.3	< RL	
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL	
Manganese (Mn)	mg/kg	2.5	15,000	5.9	13.9	5.8	
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	
Strontium (Sr)	mg/kg	2.5	56,000	3.1	22.5	27.6	
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-	
Zinc (Zn)	mg/kg	10	46,000	1560	1910	< RL	

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**Test Result:**

				Test No.	T007	T008	T009
				Material No.	M011	M012	M013
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	12200	362	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	18.6	5.5	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	8.7	10.3	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	8.8	34.6	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	2260	118	< RL	< RL

**Abbreviation:**

<	less than
RL =	Reporting Limit
mg/kg	denotes milligram per kilogram
^	denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal



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**Test Result:**

Test Parameter	Unit	RL	Test No.	T010	T011	T012
			Material No.	M014	M016	M017
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL

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**Test Result:**

				Test No.	T013	T014	T015
				Material No.	M018	M019	M020
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	17.0	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	< RL	< RL	66.3

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**Test Result:**

				Test No.	T016	T017	T018
				Material No.	M021	M022	M024
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	133	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	< RL	13.8	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	7.0	3.8	3.8
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	26.6	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	< RL
Organic Tin^	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	< RL	699	< RL	< RL

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**Test Result:**

				Test No.	T019	T020	T021
				Material No.	M025	M026	M027
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	2620	< RL	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	5.8	< RL	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	43.1	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	21.6	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	1010	< RL	< RL	< RL

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**Test Result:**

				Test No.	T022	T023	T024
				Material No.	M028(*1)	M029(*1)	M030
Test Parameter	Unit	RL	Regulatory Requirement	Result	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	189	143	< RL	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	7.9	2.7	< RL	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	5.6	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	17.4	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-	-
Zinc (Zn)	mg/kg	10	46,000	41.3	18.3	< RL	< RL

**Abbreviation:**

- < less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal



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**Test Result:**

Test Parameter	Unit	RL	Test No.	T025	T026	T027
			Material No.	M031	M032	M033
			Regulatory Requirement	Result	Result	Result
Aluminium (Al)	mg/kg	10	28,130	< RL	33.6	< RL
Antimony (Sb)	mg/kg	5	560	< RL	< RL	< RL
Arsenic (As)	mg/kg	5	47	< RL	< RL	< RL
Barium (Ba)	mg/kg	2.5	18,750	31.7	4.1	< RL
Boron (B)	mg/kg	10	15,000	< RL	< RL	< RL
Cadmium (Cd)	mg/kg	1	17	< RL	< RL	< RL
Chromium III (Cr(III))	mg/kg	10	460	< RL	< RL	< RL
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	< RL	< RL
Cobalt (Co)	mg/kg	2.5	130	< RL	< RL	< RL
Copper (Cu)	mg/kg	2.5	7,700	< RL	< RL	< RL
Lead (Pb)	mg/kg	2.5	23	< RL	< RL	< RL
Manganese (Mn)	mg/kg	2.5	15,000	< RL	< RL	< RL
Mercury (Hg)	mg/kg	2.5	94	< RL	< RL	< RL
Nickel (Ni)	mg/kg	2.5	930	< RL	< RL	< RL
Selenium (Se)	mg/kg	10	460	< RL	< RL	< RL
Strontium (Sr)	mg/kg	2.5	56,000	< RL	< RL	< RL
Tin (Sn)	mg/kg	1.0	180,000	< RL	< RL	< RL
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	-	-
Zinc (Zn)	mg/kg	10	46,000	775	56.2	< RL

**Abbreviation:**

<	less than
RL =	Reporting Limit
mg/kg	denotes milligram per kilogram
^	denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal



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**Test Result:**

				Test No.	T028
				Material No.	M034
Test Parameter	Unit	RL	Regulatory Requirement	Result	
Aluminium (Al)	mg/kg	10	28,130	< RL	
Antimony (Sb)	mg/kg	5	560	< RL	
Arsenic (As)	mg/kg	5	47	< RL	
Barium (Ba)	mg/kg	2.5	18,750	10.3	
Boron (B)	mg/kg	10	15,000	< RL	
Cadmium (Cd)	mg/kg	1	17	< RL	
Chromium III (Cr(III))	mg/kg	10	460	< RL	
Chromium VI (Cr(VI))	mg/kg	0.045	0.053	< RL	
Cobalt (Co)	mg/kg	2.5	130	< RL	
Copper (Cu)	mg/kg	2.5	7,700	< RL	
Lead (Pb)	mg/kg	2.5	23	< RL	
Manganese (Mn)	mg/kg	2.5	15,000	< RL	
Mercury (Hg)	mg/kg	2.5	94	< RL	
Nickel (Ni)	mg/kg	2.5	930	< RL	
Selenium (Se)	mg/kg	10	460	< RL	
Strontium (Sr)	mg/kg	2.5	56,000	< RL	
Tin (Sn)	mg/kg	1.0	180,000	< RL	
Organic Tin <sup>^</sup>	mg/kg	0.2	12	-	
Zinc (Zn)	mg/kg	10	46,000	< RL	

**Abbreviation:**

- < less than
- RL = Reporting Limit
- mg/kg denotes milligram per kilogram
- <sup>^</sup> denotes Organic tin are not necessary to be determined when the Tin concentration is less than calculated limit (3.6 mg/kg) or the components were confirmed to be pure metal

**Remark:**

- \* Categorization of toys materials is based on the material texture. According to point H.11 of Annex H to EN 71-3:2019+A1:2021, cosmetic materials with dry, brittle, powder like or pliable texture such as lipstick and eyeshadow are considered as category I materials. However, as a reminder, it cannot preclude the possibility that some national enforcement authorities might take a more stringent action to treat cosmetic materials as sticky and evaluate according to category II requirement as they are intended to be applied on skin and retained for long time.
- \*1 According to EN 71-3:2019+A1:2021, the weight of test portion was less than 100mg, but greater than 10mg. The result was calculated as if 100mg of the samples were available.

# The test is not covered by CNAS accreditation.

Testing Laboratory accredited by DAkkS according to DIN EN ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.

Testing Laboratory accredited by CNAS according to ISO/IEC 17025. The accreditation is valid for the test methods stated in the certificate.



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Sample Photos



E3164,E3164A,E3164B,E3164C



E3164,E3164A,E3164B,E3164C



E3170, E3170A(E8499,E8499A)



E3170, E3170A(E8499,E8499A)



E3147,E3147A



E3147,E3147A

- END -



