



Vantin Testing



中国认可  
国际互认  
检测  
TESTING  
CNAS L9713

# Test Report

Report No.: VT17TY04597

Date:2017-10-07

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**Applicant** : BOMING TOYS FACTORY

**Address** : CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following sample(s) was/were submitted and identified by/on behalf of the client as:

Name of Product / Item : Assembled building block

Item No. : 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, A1001, A1002, A1003, 4000007, 1211, 211

Quantity of Sample : 4 sets

Other information : WT20170925059

Labeled Age Grading : 3+

Requested Age Grading : 3+

Age Group Assessed as Per Age Guideline : Over 3 years

Age Group Applied in Testing : Over 3 years

Sample Receiving Date : 2017-09-26

Testing Period : 2017-09-26 TO 2017-10-07

Signed for and on behalf of  
Guangdong Vantin Testing Co., Ltd



Yoyo Yao  
Toy Laboratory Manager



Vantin Testing

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## TEST REQUESTED

## CONCLUSION

European Standard on Safety of toys:

- EN 71-1:2014 Mechanical and Physical properties
- EN 71-2:2011+A1:2014 Flammability of Toys
- EN 71-3:2013 +A1:2014 Migration of certain elements

**PASS**

**PASS**

**PASS**

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

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### Guangdong Vantin Testing Co., Ltd.

Gangkou Industrial Zone, South of Xiushui Road, West of Fengxin  
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# Test Report

## European Standard on Safety of Toys

### ▼ EN 71-1:2014 Mechanical and Physical Properties

As specified in European Standard on Safety of Toys - EN71 Part 1: 2014

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
6	Packaging	Pass
7	Warnings, markings and instructions for use  (Note: It is drawn to your attention that the warnings, precautions and instructions for use should be given in the national language(s) of the country where the product is sold.)	
7.1	General	Pass
7.2	Toys not intended for children under 36 months	Pass

Remark: The toy contains small parts. It is acceptable because appropriate warning is found on packaging.

**Note:**

- Only applicable clauses were shown.

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## ▼ EN 71-2:2014+A1:2014 Flammability of Toys

As specified in European Standard on Safety of Toys - EN 71 Part2:2011+A1:2014

<u>Clause</u>	<u>Description</u>	<u>Assessment</u>
4.1	General requirements	
	- Celluloid, materials with the same behavior in fire as celluloid	Pass

### Note:

- Only applicable clauses were shown.

---

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# Test Report

### ▼ Labeling requirement

Washing/Cleaning instruction, CE mark, importer/manufacturer name and address, product identification

As specified in the Directive 2009/48/EC-Safety of toys

Summary table:

Requirement	Observation Result	Location
Washing/Clean instruction	Not Applicable	--
CE mark	Present	Packaging
Importer's Name & Address	Absent	--
Manufacturer's Name & Address	Absent	--
Product ID	Absent	--

### 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 soak washed. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned.
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.

### Note:

- Only applicable clauses were shown.

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**▼ EN 71-3:2013 + A1:2014 Migration of certain elements**

Method: EN 71-3: 2013 + A1: 2014

Analysis was performed by ICP-OES, ICP-MS, HPLC-ICP-MS and/or GC-MS.

**Category III: scraped-off toy material**

Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	1	2	3	4	5		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	6	7	8	9	10		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	11	12	13	14	15		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	16	17	18	19	20		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	21	22	23	24	25		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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	26	27	28	29	30		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	31	32	33	34	35		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)					MDL (mg/kg)	Limit (mg/kg)
	36	37	38	39	40		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	--
Chromium (III) #2	--	--	--	--	--	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	50	46000

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Tested Item(s)	Result (mg/kg)						MDL (mg/kg)	Limit (mg/kg)
	41	42	43	44	45	46		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	70000
Antimony (Sb)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	560
Arsenic (As)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	47
Barium (Ba)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	18750
Boron (B)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	15000
Cadmium (Cd)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	3	17
Chromium (Cr) #1	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	0.2	--
Chromium (III) #2	--	--	--	--	--	N/A	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	0.005	0.2
Cobalt (Co)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	130
Copper (Cu)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	7700
Lead (Pb)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	160
Manganese (Mn)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	15000
Mercury (Hg)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	94
Nickel (Ni)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	930
Selenium (Se)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	5	460
Strontium (Sr)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	56000
Tin (Sn) #3	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	3	180000
Organic tin (TBT) #4	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	0.2	12
Zinc (Zn)	N.D.	N.D.	N.D.	N.D.	N.D.	N/A	50	46000

**Specimen Description:**

- 1 black plastic
- 2 transparent black plastic
- 3 purple plastic
- 4 red plastic
- 5 dark blue plastic
- 6 transparent red plastic

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- 7 blue plastic
- 8 hyacinthine plastic
- 9 transparent purple plastic
- 10 transparent blue plastic
- 11 transparent lake blue plastic
- 12 lake blue plastic
- 13 white plastic
- 14 brownish red plastic
- 15 dark brown plastic
- 16 brown plastic
- 17 bright brown plastic
- 18 dark yellow plastic
- 19 khaki plastic
- 20 beige plastic
- 21 powderblue plastic
- 22 light blue plastic
- 23 transparent plastic
- 24 dark flesh plastic
- 25 flesh plastic
- 26 orange plastic
- 27 dark orange plastic
- 28 transparent orange plastic
- 29 light beige plastic
- 30 yellow plastic
- 31 transparent yellow plastic
- 32 grey white plastic
- 33 blue grey plastic
- 34 black grey plastic
- 35 silver grey plastic
- 36 light grey plastic
- 37 grey plastic

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- 38 dark grey plastic
- 39 transparent green plastic
- 40 light green plastic
- 41 green plastic
- 42 dark green plastic
- 43 dull green plastic
- 44 army green plastic
- 45 black soft plastic
- 46 multicolor coating (<10mg)

## Note:

- MDL = Method Detection Limit
- N.D. = Not Detected (<MDL)
- mg/kg = ppm = parts per million
- N/A = Not Applicable, indicates the test portion(s) is/are less than 10mg, therefore such components was/were not tested for migration of certain elements, as specified in the European standard on safety of toys EN 71-3:2013+A1:2014, clause 7 – selection of test portions.
- Filter paper was used instead of membrane filter in lab testing.
- #1 Chromium (Cr) content can be used for screen test for hexavalent chromium and trivalent chromium analysis and to show compliance with the requirement of EN 71-3:2013+A1:2014.
- #2 Chromium (Cr) = Hexavalent chromium (Cr (VI)) +Trivalent chromium (Cr (III)), where the chromium content exceeded the limits of hexavalent chromium and/or trivalent chromium, then hexavalent chromium was analyzed by HPLC-ICP-MS and trivalent chromium content was calculated using the formula.
- #3 Tin (Sn) content can be used for screen test for organic tins analysis to show compliance with the requirement of EN 71-3:2013+A1:2014.

---

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- #4 The migration of organic tin is expressed as tributyltin (TBT). where the tin content exceeded the limit of organic tin, ten organic tins listed in table were determined by GC-MS and the client should be noted there are other organic tins may be present in toy materials.

Organic tins tested under EN 71-3:2013+A1:2014
Methyl tin (MeT)
Butyl tin (BuT)
Dibutyl tin (DBT)
Tributyl tin (TBT)
Tetrabutyl tin (TeBT)
n-Octyl tin (MOT)
Di-n-octyl tin (DOT)
Di-n-propyl tin (DProT)
Diphenyl tin (DPHT)
Triphenyl tin (TPHT)

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## Sample Photo



Vantin Testing authenticate the photo on original report only

\*\*\* End of Report \*\*\*

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