

# Test Report

Report No.: W2205345

Date:2022-05-17

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**Applicant** : Shantou Liangao Toy Industry Co. LTD  
**Address** : Next to District of Rongnan Road, Toufen Village, Fengxiang Street, Chenghai District, Shantou city, Guangdong Province, China (Toufen Laoxidi)

## Sample Description:

Name of Product / Item : building block  
Item No. : See Next Page  
Above sample information was submitted and/or identified by client  
Quantity of Sample : 2 sets  
Other Information : WT20220510001  
Labeled Age Grading : 6+  
Requested Age Grading : 6+  
Age Group Assessed As Per Age Guideline : Over 6 years  
Age Group Applied in Testing : Over 6 years  
Sample Receiving Date : 2022-05-10  
Testing Period : 2022-05-10 TO 2022-05-17

## TEST REQUESTED

European Standard on Safety of toys:

- EN 71-1:2014+A1:2018 Mechanical and Physical properties
- EN 71-2:2020 Flammability of Toys
- Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU)2018/725, (EU)2019/1922
- EN 71-3:2019+A1:2021 Migration of certain elements

## CONCLUSION

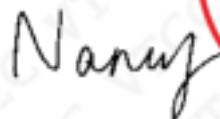
**PASS**

**PASS**

**PASS**

\*\*\*\* AS REQUESTED BY THE APPLICANT, PLEASE REFER TO THE FOLLOWING PAGE(S) FOR DETAILS\*\*\*\*

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



Nancy Wang  
Toy Laboratory Manager



Vantin Testing

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## Item No.:

18240,18241,18242,18243,18244,18245,18246,18247,18248-2,18248-3,18248-4,18248-5,18248-6,  
18248-7,18248-8,18248-9,18391,18392,18393,18394,18395,18396,18400,18401,18402,18403, 18404,  
18405,18406,18407,20080-1,20080-2,20080-3,20081-1,20081-2,20081-3,20082-1,20082-2,20082-3,  
20083-1,20083-2,20083-3,20084-1,20084-2,20084-3,20085-1,20085-2,20085-3,20086-1,20086-2,20086-3,  
20091-1,20091-2,20092-1,20093-1,20094-1,20094-2,20094-3,20095-1,20095-2,20095-3,20060,20061,  
16088,16089,16248,16249,16250,16251,18398,18399,16036,16037,16038,16039,16013,16014,16042,16043,  
16049.

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**European Standard on Safety of Toys****▼ EN 71-1:2014+A1:2018 Mechanical and Physical Properties**

As specified in European Standard on Safety of Toys - EN71 Part 1:2014+A1:2018

<b><u>Clause</u></b>	<b><u>Description</u></b>	<b><u>Assessment</u></b>
4	General requirements	
4.1	Material cleanliness	Pass
4.7	Edges	Pass
4.8	Points and metallic wires	Pass
4.9	Protruding parts	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  See Remark

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

**Note:**

- Only applicable clauses were shown.

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## ▼ EN 71-2:2020 Flammability of Toys

As specified in European Standard on Safety of Toys - EN 71 Part 2:2020

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

### Note:

- The gas used in flammability test is butane.
- Only applicable clauses were shown.



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## ▼ 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 must 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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**Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738,**

**Commission Directive (EU)2018/725, (EU)2019/1922**

**▼ EN 71-3:2019+A1:2021 Migration of certain elements**

Method: EN 71-3:2019+A1:2021

Analysis was performed by ICP-OES, ICP-MS, IC-UV/VIS and GC-MS.

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

Tested Item(s)	Result (mg/kg)					Reporting Limit (mg/kg)	Limit (mg/kg)
	1	2	3	4	5		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
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)	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	--
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.053
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	23
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)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	180000
Organic tin (TBT) #2	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)					Reporting Limit (mg/kg)	Limit (mg/kg)
	6	7	8	9	10		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
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)	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	--
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.053
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	23
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)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	180000
Organic tin (TBT) #2	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)					Reporting Limit (mg/kg)	Limit (mg/kg)
	11	12	13	14	15		
Aluminium (Al)	N.D.	N.D.	N.D.	N.D.	N.D.	50	28130
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)	N.D.	N.D.	N.D.	N.D.	N.D.	0.05	--
Chromium (III) #1	N.D.	N.D.	N.D.	N.D.	N.D.	--	460
Chromium (VI)	N.D.	N.D.	N.D.	N.D.	N.D.	0.005	0.053
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	23
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)	N.D.	N.D.	N.D.	N.D.	N.D.	2.5	180000
Organic tin (TBT) #2	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

## Specimen Description:

- 1 Gray plastic (gray block accessory)
- 2 Dark green plastic (dark green block accessory)
- 3 Yellow plastic (yellow block accessory)
- 4 Dark brown plastic (dark brown block accessory)
- 5 Blue plastic (blue block accessory)
- 6 Dark blue plastic (dark blue block accessory)

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- 7 Red plastic (red block accessory)
- 8 Black plastic (black block accessory)
- 9 White plastic (white block accessory)
- 10 Purple plastic (purple block accessory)
- 11 Orange plastic (orange block accessory)
- 12 Brown plastic (brown block accessory)
- 13 Rose red plastic (rose red block accessory)
- 14 Pink plastic (pink block accessory)
- 15 Green plastic (green block accessory)

**Note:**

- N.D. = Not Detected (< Reporting limit)
- mg/kg = ppm = parts per million
- #1 The reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium (VI).
- #2 The migration of organic tin is expressed as tributyltin (TBT).

Organic tins tested under EN 71-3:2019+A1:2021
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)
Dimethyl tin (DMT)

- As per client's request, test conducted on specified materials.



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## Sample Photo



Vantin Testing authenticate the photo on original report only

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

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