

Test Report

Number: GZHH00318049

Applicant: QUNLONG PLASTIC PRODUCTS CO.,LTD
WAIPU INDUSTRIAL AREA,CHENGHAI,DISTRICT,
SHANTOU CITY,GUANGDONG,PROVINCE,CHINA

Date: Apr 18, 2019

Sample Description:

Six (6) sets of submitted sample said to be :

Item Name : **Small Building Blocks**
Item No. : 33147、33148、33149、33150、33151、33152、33153、33154、33156、
33157、33158、33159、33160、33162、33163、33165、33166、33167、
33168、33169、33170、33171、33173、33176、33177、33178、33179、
33184、33186、33190、33191、33192、33195、33196、33197、33198、
33199、33200、33203、33204、33205、33206、33209、33210、33211、
33213、33214、33215、33216、33217、33218、33219、33220、33221、
33222、33223、33224、33225、33226、33227、33228、33229、33230、
33231、33232、33233、33234、33236、33238、33240、33241、33242、
33243、33245、33246、33248、33252、33253、33257、33258

Above sample information was submitted and/or identified by client

Labelled Age Group : "3+" "6+"
Applicant Specified Age : Over 3 years
Grading for Testing :
Packaging Provided by Applicant : Yes
Country of Origin : China



To be continued

Approved:



Albert Chen
Toys Lab Assistant Manager

Approved:

Crystal Huang
Technical Support Assistant Manager



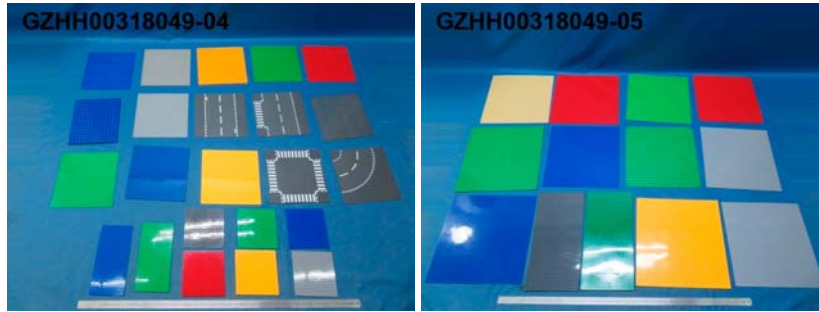
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Sample Description:



Tests conducted:

As requested by the applicant, refer to attached page(s) for details.

Conclusion:

<u>Tested Sample</u>	<u>Standard - U.S. ASTM F963-17</u>	<u>Result</u>
Submitted sample sets	Physical and mechanical tests	Pass
	Flammability test of materials other than textile materials	Pass
Tested component(s) of submitted sample sets	Heavy elements test	Pass

Approved:



Albert Chen
Toys Lab Assistant Manager



Approved:



Crystal Huang
Technical Support Assistant Manager



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Tests Conducted

1 Physical and Mechanical Tests

As per ASTM Standard Consumer Safety Specification for Toy Safety F963-17

The submitted samples were undergone the use and abuse tests in accordance with The Federal Hazardous Substances Act (FHSA), Title 16, Code of Federal Regulations :

Test	Test	Parameter
Impact test	Section 1500.53(b)	4 X 3 ft
Torque test	Section 1500.53(e)	4 in-lbf
Tension test	Section 1500.53(f)	15 lbf
Compression test	Section 1500.53(g)	30 lbf

Section	Testing Items	Assessment
4.1	Material quality (visual check on cleanliness)	P
4.3.7	Stuffing materials	NA
4.5	Sound-producing toys	NA
4.6.1	Toys intended for children under 36 months (small objects)	NA
4.6.2	Mouth-actuated toys	NA
4.6.3	Toys and games for 36 months to 72 months (small part warning)	P
4.7	Accessible edges	P
4.8	Projections	NA
4.9	Accessible points	P
4.10	Wires or rods	NA
4.11	Nails and fasteners	NA
4.12	Plastic film	P
4.13	Folding mechanisms and hinges	NA
4.14	Cords, straps, and elastics	NA
4.15	Stability and over-load requirements	NA
4.16	Confined spaces	NA
4.17	Wheels, tires and axles	NA
4.18	Holes, clearance, and accessibility of mechanisms	NA
4.19	Simulated protective devices (such as helmets, hats and goggles)	NA
4.20	Pacifiers	NA
4.21	Projectile toys	NA
4.22	Teethers and teething toys	NA
4.23	Rattles	NA
4.24	Squeeze toys	NA
4.25	Battery-operated toys	NA
4.26	Toys intended to be attached to a crib or playpen	NA
4.27	Stuffed and beanbag-type toys	NA
4.28	Stroller and carriage toys	NA
4.29	Art materials	NA
4.30	Toy gun marking	NA
4.31	Balloons	NA
4.32	Certain toys with nearly spherical ends	NA
4.33	Marbles	NA



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Section	Testing Items	Assessment
4.34	Balls	NA
4.35	Pompoms	NA
4.36	Hemispheric-shaped objects	NA
4.37	YoYo elastic tether toys	NA
4.38	Magnets	NA
4.39	Jaw entrapment in handles and steering wheels	NA
4.40	Expanding materials	NA
4.41	Toy chests	NA
5	Labelling requirement	P
6	Instructional literature	P
7	Producer's markings	
7.1	- Name of producer/distributor (Package)	Yes
	- Address	No
7.3	Toy chests	NA
7.3.1	Name and address of manufacturer/distributor/seller	NA
7.3.2	Code mark	NA

Remark : The submitted samples were undergone the tests in accordance with section 8.5 through section 8.18 and 8.20 through 8.26 on normal use, abuse and specific tests for different types of toys whichever is applicable.

P = Pass NA = Not Applicable

The producer's/distributor's name was found on the packaging. However as specified in section 7.1 of U.S. ASTM F963-17, the final product or its packaging must also be marked with the address.

Date sample received : Apr 03, 2019 & Apr 15, 2019
Testing period : Apr 03, 2019 to Apr 16, 2019

2 Flammability test

As per section 4.2 of the ASTM standard consumer safety specification on toy safety F963-17, the samples were tested according to Annex A5 Flammability testing procedure for solids and soft toys

Sample	Ignition Point	Burn Length (inch)	Time (sec)	Burn Rate (inch/sec)	Limit (inch/sec)
Building block base	End	1.0	60.00	0.02	0.1



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The submitted toy samples were tested, the above result only showed the most severe burn rate of the samples.

Date sample received :Apr 03, 2019
Testing period : Apr 03, 2019 to Apr 16, 2019

3 Heavy Elements Analysis (except modelling clay)

As per Section 4.3.5 and Section 8.3.2 to 8.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, heavy elements migration content were determined by Inductively Coupled Argon Plasma Spectrometry.

Element	Result (ppm)	Reporting limit (ppm)	Limit (ppm)
	Tested component		
	(1)to(6)		
Sol. Barium (Ba)	ND	5	1000
Sol. Lead (Pb)	ND	5	90
Sol. Cadmium (Cd)	ND	5	75
Sol. Antimony (Sb)	ND	5	60
Sol. Selenium (Se)	ND	5	500
Sol. Chromium (Cr)	ND	5	60
Sol. Mercury (Hg)	ND	5	60
Sol. Arsenic (As)	ND	2.5	25

Sol. = Soluble
ppm = part per million = mg/kg
ND = Not detected

Tested Components:

- (1) Black plastic (accessories).
- (2) Red plastic (accessories).
- (3) Grey plastic (accessories).
- (4) Yellow plastic (accessories).
- (5) Blue plastic (accessories).
- (6) Green plastic (accessories).

Remark: As requested by the applicant, heavy elements content test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Apr 02, 2019
Testing period: Apr 02, 2019 to Apr 08, 2019



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4 Total Lead (Pb) Content

As per Section 4.3.5 of the ASTM Standard Consumer Safety Specification on Toy Safety F963-17, test method CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3 or/and CPSC-CH-E1003-09.1 were used and total Lead content was determined by Inductively Coupled Argon Plasma Spectrometry.

Non-surface coating

Element	Result (ppm)	Reporting Limit (ppm)	Limit (ppm)
	Tested Component		
	(1)to(6)		
Lead (Pb)	ND	10	100

ppm = part per million = mg/kg
ND = Not detected

Tested Components:

- (1) Black plastic (accessories).
- (2) Red plastic (accessories).
- (3) Grey plastic (accessories).
- (4) Yellow plastic (accessories).
- (5) Blue plastic (accessories).
- (6) Green plastic (accessories).

Remark: As requested by the applicant, U.S. ASTM F963-17 total Lead content test was conducted only on component(s) listed in this report. Other components were not tested.

Date sample received: Apr 02, 2019
Testing period: Apr 02, 2019 to Apr 08, 2019

End of report

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