



中国认可  
国际互认  
检测  
TESTING  
CNAS L2929

## Test Report

No.: T52110220768TY

Date: MAR 10, 2021

Page 1 of 14

LEILONG TOYS FACTORY  
CHENGHAI DISTRICT, SHANTOU CITY, GUANGDONG PROVINCE, CHINA

The following samples were submitted and identified by/on behalf of the client as:

TOY SERIES

Client Reference Information : A1001-1,A1001-2,A1001-3,A1001-4,A1001-5,A1001-6,  
A1001-7,A1001-8,A1002-1,A1002-2,A1002-3,A1002-4,  
A1002-5,A1002-6,A1002-7,A1002-8,A1003-1,A1003-2,  
A1003-3,A1003-4,A1003-5,A1003-6,A1003-7,A1003-8,  
A1004-1,A1004-2,A1004-3,A1004-4,A1004-5,A1004-6,  
A1004-7,A1004-8,A1005-1,A1005-2,A1005-3,A1005-4,  
A1005-5,A1005-6,A1005-7,A1005-8,A1006-1,A1006-2,  
A1006-3,A1006-4,A1006-5,A1006-6,A1006-7,A1006-8,  
A1007-1,A1007-2,A1007-3,A1007-4,A1007-5,A1007-6,  
A1007-7,A1007-8,A1008-1,A1008-2,A1008-3,A1008-4,  
A1008-5,A1008-6,A1008-7,A1008-8,A1009-1,A1009-2,  
A1009-3,A1009-4,A1009-5,A1009-6,A1009-7,A1009-8,  
A1010-1,A1010-2,A1010-3,A1010-4,A1010-5,A1010-6,  
A1010-7,A1010-8

Labeled Age Grading : 3+

Requested Age Grading : 3+

\*\*\*\*\*

Age Group Assessed by SGS As Per Age : OVER 3 YEARS

Guideline

Age Group Applied in Testing : OVER 3 YEARS

Sample Receiving Date : JAN 15, 2021

Last Submission Sample Date : MAR 04, 2021

Further Information Date : FEB 04, 2021

Testing Period : JAN 15, 2021 TO MAR 10, 2021



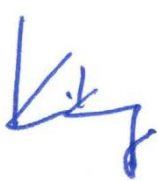
SGS-CSTC Technical Services Co., Ltd.  
Shenzhen Branch Testing Center Hardlines

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Test Requested	Conclusion
1. Per applicant's request, for compliance with the selected requirement(s) of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. Refer to test result page(s) for details.  (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details)  (Selected tests item as specified by the applicant, please refer to test result page(s) for details)	--
ASTM F963-17 Standard Consumer Safety Specification for Toy Safety (Except clause 4.3.3)	PASS

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

Signed for and on behalf of  
 SGS-CSTC Standards Technical  
 Services Co., Ltd. Shenzhen Branch Testing Center






Qu Ping, Kiky  
 Dept. Manager  
 CNAS Approved Signatories

Liu Junjie, Tony  
 Section Manager  
 CNAS Approved Signatories

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 Supervisor  
 CNAS Approved Signatories



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**Results:**

**ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY**

**AS SPECIFIED IN ASTM F963-17 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY**

Clauses relevant to the item:

<u>Clause</u>	<u>Description</u>	<u>Result</u>
4	Safety Requirements	
4.1	Material Quality **	<u>Pass</u>
4.2	Flammability Test	<u>Pass</u> <u>(See Result Page)</u>
4.3	Toxicology	
4.3.2	Manufacturing and Packaging of Food	<u>N/A</u>
4.3.4	Cosmetics	<u>N/A</u>
4.3.5	Heavy Elements	
4.3.5.1	Heavy Elements in Paint/Similar Surface Coating Materials	<u>Pass</u> <u>(See Result Page)</u>
4.3.5.2	Heavy Metal in Substrate Materials	<u>Pass</u> <u>(See Result Page)</u>
4.3.6	Cosmetic, Liquids, Pastes, Putties, Gels, Powders and Item of Avian Feather Origin	<u>N/A</u>
4.3.7	Stuffing Materials	<u>N/A</u>
4.3.8	DEHP (DOP)	<u>N/A</u>
4.4	Electrical/Thermal Energy	<u>N/A</u>
4.5	Sound-Producing Toys	<u>Pass</u>
4.6.1	Small Objects	<u>N/A</u>
4.6.2	Mouth-Actuated Toys	<u>N/A</u>
4.6.3	Labelling Requirements	<u>Pass*</u>
	*Retest samples were submitted on Mar 08, 2021.	
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>N/A</u>
4.9	Accessible Points	<u>Pass*</u>
	*Retest samples were submitted on Mar 08, 2021.	
4.10	Wires or Rods	<u>N/A</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass*</u>
	*Retest samples were submitted on Mar 08, 2021.	



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No.: T52110220768TY

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<u>Clause</u>	<u>Description</u>	<u>Result</u>
4.13.1	Folding Mechanisms	<u>N/A</u>
4.13.2	Hinge-Line Clearance (Remark : Not applicable because of the weight of movable part link with hinge is less than 0.5lb.)	<u>N/A</u>
4.14	Cords, Straps and Elastic	<u>N/A</u>
4.15	Stability and Over-Load Requirements	<u>N/A</u>
4.16	Confined Spaces	<u>N/A</u>
4.17	Wheels, Tires, and Axles	<u>N/A</u>
4.18	Holes, Clearance & Accessibility of Mechanisms	<u>Pass</u>
4.19	Simulated Protective Devices	<u>N/A</u>
4.20	Pacifiers	<u>N/A</u>
4.21	Projectile Toys	<u>N/A</u>
4.22	Teethers and Teething Toys	<u>N/A</u>
4.23	Rattles	<u>N/A</u>
4.24	Squeeze Toys	<u>N/A</u>
4.25	Battery-Operated Toys (Non-rechargeable battery) (# This test was only conducted on specific product(s) (see sample pictures for details) as per client's request.)	<u>Pass</u> <sup>#</sup>
4.26	Toys Intended to be Attached to a Crib or Playpen	<u>N/A</u>
4.27	Stuffed and Beanbag-Type Toys	<u>N/A</u>
4.28	Stroller and Carriage Toys	<u>N/A</u>
4.29	Art Materials	<u>N/A</u>
4.30	Toy Gun Marking	<u>N/A</u>
4.31	Balloons	<u>N/A</u>
4.32	Certain Toys and Nearly Spherical Ends	<u>N/A</u>
4.33	Marbles	<u>N/A</u>
4.34	Balls	<u>N/A</u>
4.35	Pompoms	<u>N/A</u>
4.36	Hemispheric-Shaped Objects	<u>N/A</u>
4.37	Yo Yo Elastic Tether Toys	<u>N/A</u>
4.38	Magnets	<u>N/A</u>
4.39	Jaw Entrapment in Handles and Steering Wheels	<u>N/A</u>
4.40	Expanding Materials	<u>N/A</u>
4.41	Toy Chest	<u>N/A</u>
5	Safety Labeling Requirements	
5.2	Age Grading Labeling	<u>Pass</u>
5.3	Safety Labeling Requirements	<u>Pass</u> <sup>*</sup>

\*Retest samples were submitted on Mar 08, 2021.



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<u>Clause</u>	<u>Description</u>	<u>Result</u>
5.4	Aquatic Toys	<u>N/A</u>
5.5	Crib & Playpen Toys	<u>N/A</u>
5.6	Mobile	<u>N/A</u>
5.7	Stroller and Carriage Toys	<u>N/A</u>
5.8	Toys Intended to be Assembled by an Adult	<u>N/A</u>
5.9	Simulated Protective Devices	<u>N/A</u>
5.10	Toys with Functional Sharp Edges and Sharp Points	<u>N/A</u>
5.11	Small Objects, Small Balls, Marbles, and Balloons *Retest samples were submitted on Mar 08, 2021.	<u>Pass*</u>
5.12	Toy Caps	<u>N/A</u>
5.13	Art Materials	<u>N/A</u>
5.14	Electric Toys	<u>N/A</u>
5.15	Battery-Operated Toys	<u>N/A</u>
5.16	Promotional Materials	<u>Pass</u>
5.17	Magnets	<u>N/A</u>
6	Instructional Literature	
6.2	Crib & Playpen Toys	<u>N/A</u>
6.3	Mobiles	<u>N/A</u>
6.4	Toys Intended to be Assembled by an Adult	<u>N/A</u>
6.5	Battery-Operated Toys	<u>Pass</u>
6.6	Battery Powered Ride-on Toys	<u>N/A</u>
6.7	Toys in Contact with Food *Retest samples were submitted on Mar 08, 2021.	<u>Pass*</u>
6.8	Toy Chests	<u>N/A</u>
7	Producer's Markings	
7.1	Producer's Markings	<u>Pass</u>
7.2	Battery-Powered Ride-on Toys	<u>N/A</u>
7.3	Toy Chests	<u>N/A</u>
8.5	Normal Use Testing	<u>Pass</u>
8.7	Impact Test	<u>Pass</u>
8.8	Torque Test	<u>Pass</u>
8.9	Tension Test	<u>Pass</u>
8.10	Compression Test	<u>Pass</u>
8.12	Flexure Test	<u>N/A</u>
8.16	Tension Test for Pompoms	<u>N/A</u>

N/A = Not Applicable

\*\* Visual Examination



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Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

TOY SERIES

Burning Rate (inch/sec)

0.04

Requirement: A toy / component is considered a "flammable solid" if it ignites and burns with a self-sustaining flame at a rate greater than 0.10 in/sec along its major axis.

**ASTM F963-17, Clause 4.3.5.1 – Heavy Elements in Paint/Similar Surface Coating Materials**

Method: With reference to CPSC-CH-E1003-09.1

Method: With reference to ASTM F963-17 Clause 8.3

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

Total Lead Content

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	90		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Transparent lacquer w/ bright silvery coating on plastic (Washing machine)	3	1	ND

Soluble Heavy Metal Content

Test Item(s)	Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)	5	5	2.5	10	5	5	5	10
Migration Limit (ppm)	90	60	25	1000	75	60	60	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)				
1	1	4	56.8	ND	ND	ND	ND	ND

Specimen Description:

- Transparent lacquer w/ bright silvery coating on plastic (Washing machine)



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- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - MDL = Method Detection Limit
  - ND = Not Detected (lower than MDL)
  - Migration results of eight elements shown are of the adjusted analytical results
  - For Soluble Heavy Metal Content: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - For Total Lead Content:  
Result(s) is(are) extracted from report No. T52010240975TY.  
For Soluble Heavy Metal Content:  
Result(s) is(are) extracted from report No. T52010240974TY.

**ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials**

Method (non-metallic materials): With reference to CPSC-CH-E1002-08.3

Method: With reference to ASTM F963-17 Clause 8.3

Analysis 检验检测 performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)

**Total Lead Content**

Test Item(s)	Lead (Pb)		
MDL (ppm)	10		
Total Limit (ppm)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Green plastic (Blender)	2	1	ND
2. Cream-brown plastic (Washing machine)	2	2	ND
3. Transparent black plastic (Blender)	2	3	ND
4. White plastic (Cup)	2	4	ND
5. Transparent plastic (Water dispenser)	2	5	ND
6. Brown plastic (Dish)	2	6	ND



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Soluble Heavy Metal Content

Test Item(s)				Pb	Sb	As	Ba	Cd	Cr	Hg	Se
MDL (ppm)				5	5	2.5	10	5	5	5	10
Migration Limit (ppm) -- Other Than Modeling Clays				90	60	25	1000	75	60	60	500
Migration Limit (ppm) -- Modeling Clays				90	60	25	250	50	25	25	500
Specimen No.	Alias No.	Tracing No.	Mass of trace amount (mg)	Adjusted Migration Result(s) (ppm)							
1	1	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	1	2	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	3	/	ND	ND	ND	ND	ND	ND	ND	ND
4	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	6	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Green plastic (Blender)
2. Cream-brown plastic (Washing machine)
3. Transparent black plastic (Blender)
4. White plastic (Cup)
5. Transparent plastic (Water dispenser)
6. Brown plastic (Dish)

- Note:
- ppm = parts per million
  - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
  - ND = Not Detected (lower than MDL)
  - MDL = Method Detection Limit
  - Migration results of eight elements shown are of the adjusted analytical results
  - For Soluble Heavy Metal Content: The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.
  - For Total Lead Content:

Result(s) is(are) extracted from report No. T52010240975TY.

For Soluble Heavy Metal Content:

Result(s) is(are) extracted from report No. T52010240974TY.



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1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.
2. The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012). When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability( $k=2$ ),  $w = U_{95}$ . The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit ( $T_U$ ):

Pass - when the measurement result is below  $T_U - U_{95}$

Fail - when the measurement result is above  $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band [ $T_U - U_{95}$ ,  $T_U + U_{95}$ ]

For Lower Tolerance Limit ( $T_L$ ):

Pass - when the measurement result is above  $T_L + U_{95}$

Fail - when the measurement result is below  $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band [ $T_L - U_{95}$ ,  $T_L + U_{95}$ ]



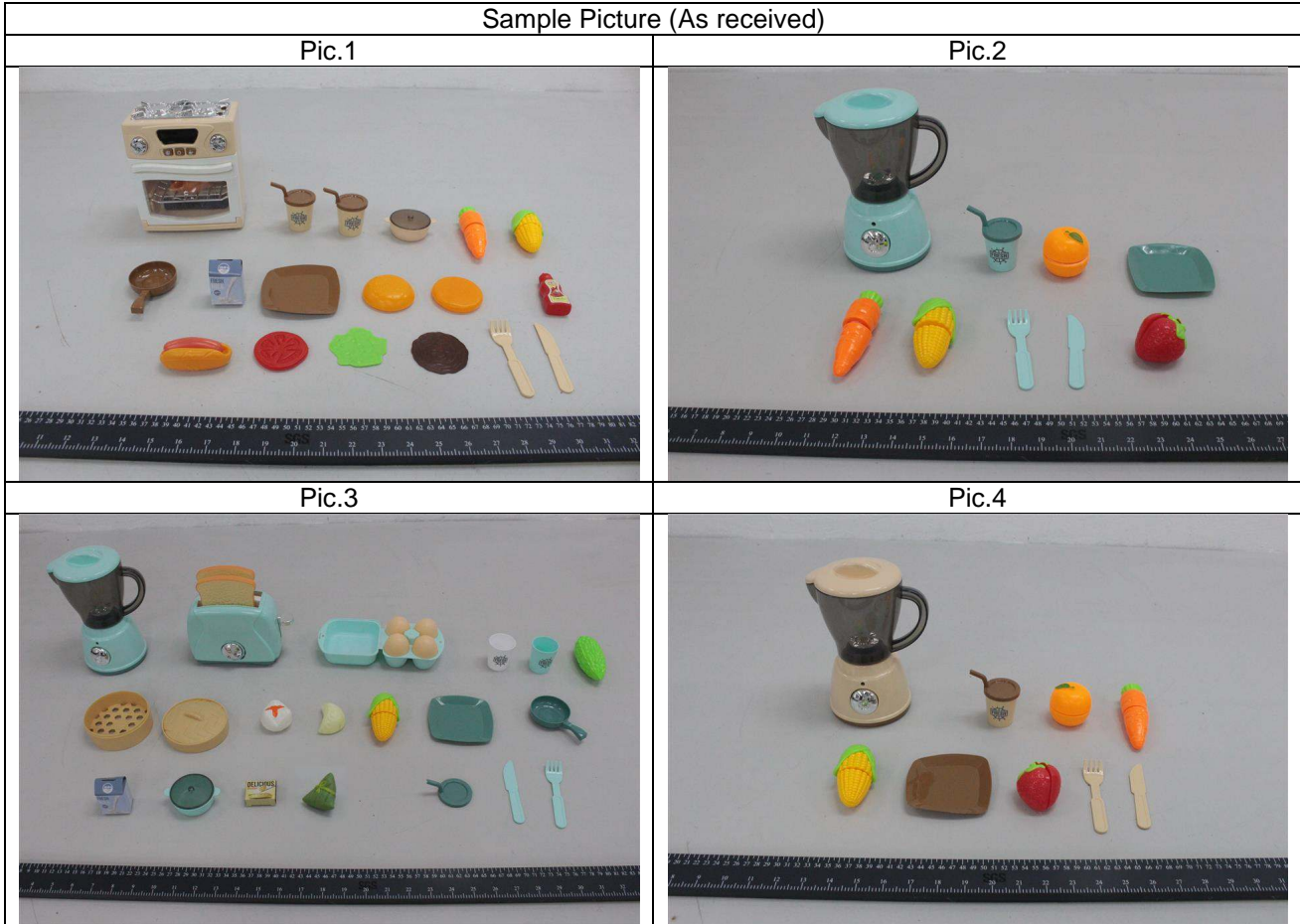
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### Sample Picture (As received)



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Pic.5



Pic.6



Pic.7



Pic.8



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Pic.9



Pic.10



Pic.11



Pic.12



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Pic.13



Pic.14



Pic.15



Pic.16





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Pic.17	Pic.18
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