



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52110332223TY

Date: JAN 17, 2022

Page 1 of 13

SHANTOU CITY CHENGHAI ESTATE WENSHENG
PLASTIC TOYS INDUSTRY CO.,LTD
DONGHOU INDUSTRIAL ESTATE,FENGXIANG STREET,
CHENGHAI ESTATE,SHANTOU CITY,GUANGDONG PROVINCE,P.R.CHINA

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

ASSEMBLED MODEL TOY

Client Reference Information : WS5701,WS5702,WS5703,WS5705,WS5706,WS5707,
WS5708,WS5709,WS5710,WS5711,WS5712,WS5713,
WS5715,WS5716,WS5717,WS5718,WS5719,WS5720,
WS5721,WS5722,WS5723,WS5725,WS5726,WS5727,
WS5728,WS5729,WS5730,WS5731,WS5732,WS5733,
WS5735,WS5736,WS5737,WS5738,WS5739,WS5750,
WS5751,WS5752,WS5753,WS5755,5701,5702,5703,
5705,5706,5707,5708,5709,5710,5711,5712,5713,5715,
5716,5717,5718,5719,5720,5721,5722,5723,5725,5726,
5727,5728,5729,5730,5731,5732,5733,5735,5736,5737,
5738,5739,5750,5751,5752,5753,5755

Labeled Age Grading : 8+ AGES

Requested Age Grading : 8+

Age Group Assessed by SGS As Per Age Guideline : OVER 8 YEARS
Age Group Applied in Testing : OVER 8 YEARS
Sample Receiving Date : DEC 23, 2021
Last Submission Sample Date : JAN 11, 2022
Testing Period : DEC 23, 2021 TO JAN 17, 2022



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Member of the SGS Group (SGS SA)

Test Requested		Conclusion
1.	With reference to the test requirement of ASTM F963-17 Standard Consumer Safety Specification on Toy Safety. (Selected specimen(s) was/were tested as specified by the applicant, please refer to test result page(s) for details)	--
	ASTM F963-17 Standard Consumer Safety Specification for Toy Safety	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



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 Section Manager
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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>
4.3.3	Indirect Food Additives	<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>N/A</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>N/A</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>N/A</u>
4.9	Accessible Points	<u>Pass</u>
4.10	Wires or Rods	<u>N/A</u>
4.11	Nails and Fasteners	<u>Pass</u>
4.12	Plastic Film	<u>Pass</u>



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Date: JAN 17, 2022

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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>N/A</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> [#]
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>N/A</u>
5.4	Aquatic Toys	<u>N/A</u>



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<u>Clause</u>	<u>Description</u>	<u>Result</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	<u>N/A</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	<u>N/A</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>
*Retest samples were submitted on Jan 11, 2022.		
8.7	Impact Test	<u>N/A</u>
8.8	Torque Test	<u>N/A</u>
8.9	Tension Test	<u>N/A</u>
8.10	Compression Test	<u>N/A</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



Result Page:

Flammability Test (Clause 4.2)

Flammability Test on Solid

Sample

ASSEMBLED MODEL TOY

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. Blue wet paint	3	1	ND
2. Red wet paint	3	2	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	13	22.2	ND	ND	ND	ND	ND	ND	ND	ND
2	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
3	1	18	37.8	ND	ND	ND	ND	ND	ND	ND	ND
4	1	19	15.8	ND	ND	ND	ND	ND	ND	ND	ND
5	1	25	/	ND	ND	ND	ND	ND	ND	ND	ND



Specimen Description:

1. Blue w/ silvery coating on plastic (Block)
2. Silvery coating on plastic (Block)
3. Cyan w/ silvery coating on plastic (Block)
4. Red w/ silvery coating on plastic (Block)
5. Multi-color coating on paper (Instruction)

- 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.



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 (metal materials): With reference to CPSC-CH-E1001-08.3

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)	100		
Specimen Description	Alias No.	Tracing No.	Result(s) (ppm)
1. Golden plastic (Block)	2	1	ND
2. Blue plastic w/ silvery glitter inside (Block)	2	2	ND
3. Green plastic (Block)	2	3	ND
4. Black plastic (Body)	2	4	ND
5. Cyan soft plastic (Accessory)	2	5	ND
6. Dark grey plastic (Block)	2	6	ND
7. Red plastic (Block)	2	7	ND
8. Silvery metal screw	4	1	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	4	/	ND	ND	ND	ND	ND	ND	ND	ND
5	1	5	/	ND	ND	ND	ND	ND	ND	ND	ND
6	1	6	32.6	ND	ND	ND	ND	ND	ND	ND	ND
7	1	7	/	ND	ND	ND	ND	ND	ND	ND	ND
8	1	8	/	ND	ND	ND	ND	ND	ND	ND	ND
9	1	9	/	ND	ND	ND	ND	ND	ND	ND	ND
10	1	10	/	ND	ND	ND	ND	ND	ND	ND	ND
11	1	11	/	ND	ND	ND	ND	ND	ND	ND	ND
12	1	12	/	ND	ND	ND	ND	ND	ND	ND	ND
13	1	14	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	15	/	ND	ND	ND	ND	ND	ND	ND	ND
15	1	17	/	ND	ND	ND	ND	ND	ND	ND	ND
16	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
17	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
18	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
19	1	23	/	ND	ND	ND	ND	ND	ND	ND	ND
20	1	24	14.5	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Matt-black plastic (Block, Body)
2. Green plastic (Block)
3. Grey plastic (Block, Body)
4. Black plastic (Body, block)
5. White plastic (Rod, accessory, gear)
6. Green coating on plastic (Block)
7. Cyan soft plastic (Accessory)
8. Bright black plastic (Shaft)
9. Dark grey plastic (Block)
10. Grey plastic (Accessory, gear)
11. Dull blue plastic (Block)
12. Blue soft plastic (Accessory)
13. Red plastic (Block)
14. Off-white plastic (Block)
15. Orange-yellow soft plastic (Accessory)
16. Dull cyan plastic (Block)
17. Black soft plastic (Accessory)
18. Blue plastic w/ silvery glitter inside (Block)
19. Golden plastic (Block, accessory)
20. Laminated paper label w/ multi-color printing (Sticker)

- Note:
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 - 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.



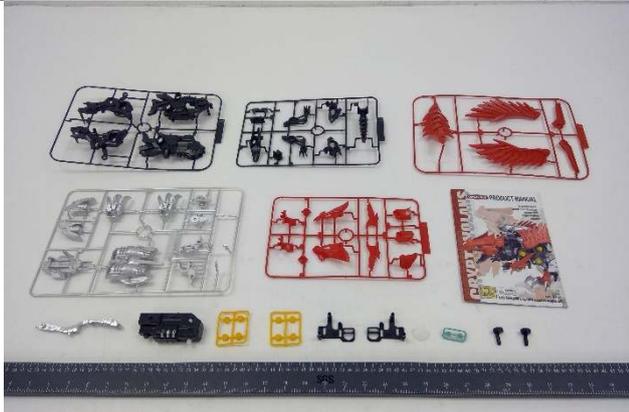
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1. Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity 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 [$T_L - U_{95}$, $T_L + U_{95}$]

Sample Picture (As received)

Pic.1

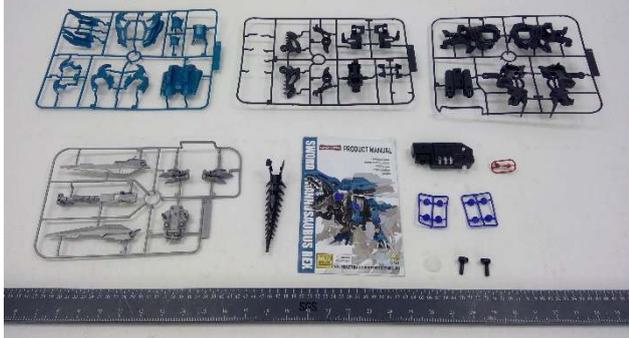


Pic.2



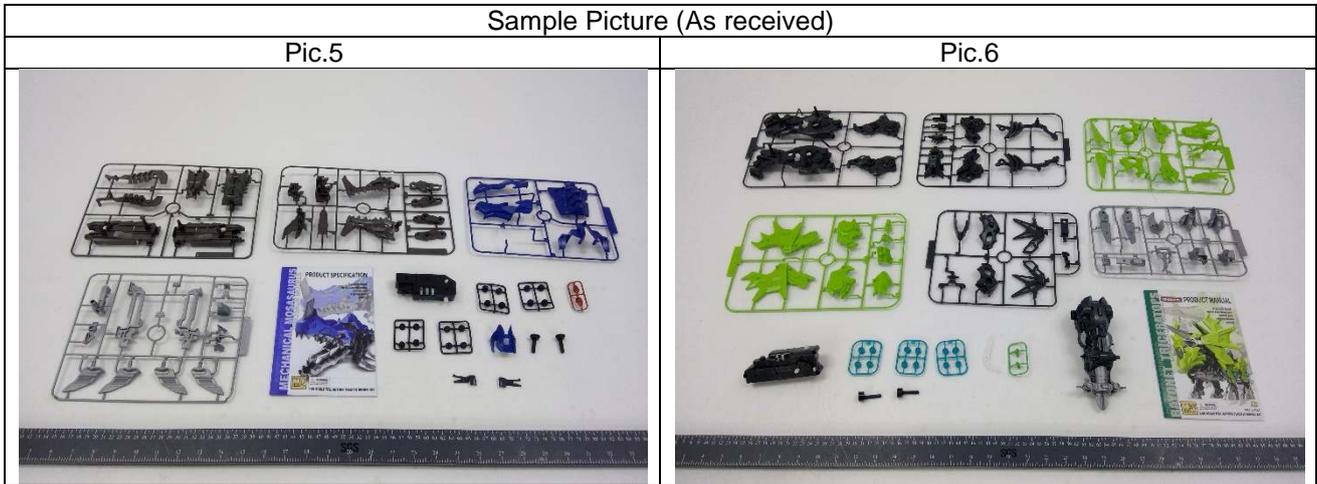
Pic.3

Attention, clause 4.25 Battery-Operated Toys was applied on below specific product(s) only



Pic.4





SGS authenticate the photo on original report only

*** End of Report ***

