



中国认可
国际互认
检测
TESTING
CNAS L2929

Test Report

No.: T52210231940TY

Date: FEB 15, 2022

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SHANTOU QIYI PLASTIC PRODUCTS FACTORY
CHENGHAI DISTRICT, SHANTOU CITY,
GUANGDONG PROVINCE, CHINA

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

PUZZLE TOYS

Client Reference Information : 313,315,316,317,318,319,320,321,322,323,324,325,326,
327,328,329,330,336,EQY503,EQY505,EQY506,
EQY507,EQY508,EQY509,EQY510,EQY511,EQY512,
EQY513,EQY514,EQY515,EQY516,EQY517,EQY518,
EQY529,EQY530,EQY537,EQY538,EQY539,EQY543,
EQY544,EQY545,EQY549,EQY572,EQY574,EQY576,
EQY603,EQY604,EQY609,EQY610,EQY642,EQY643,
EQY655,EQY656,EQY657,EQY658,EQY665,EQY666,
EQY730,EQY732,EQY733,EQY753,EQY757,EQY762,
EQY763,EQY769,EQY770,EQY771,EQY772,EQY811,
EQY814,EQY815,EQY816,EQY817,EQY818,EQY819,
EQY871,EQY872,EQY905,EQY906,EQY907

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 27, 2022

Testing Period : JAN 27, 2022 TO FEB 15, 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





Liu Junjie, Tony
Section Manager
CNAS Approved Signatories

Qu Ping, Kiky
Dept. Manager
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>
4.3.3	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>Pass</u>
4.7	Accessible Edges	<u>Pass</u>
4.8	Projections	<u>Pass</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>
4.13.1	Folding Mechanisms	<u>N/A</u>
4.13.2	Hinge-Line Clearance	<u>N/A</u>



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<u>Clause</u>	<u>Description</u>	<u>Result</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 (Rechargeable battery/Non-rechargeable battery)	<u>N/A</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>Pass</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>
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>



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<u>Clause</u>	<u>Description</u>	<u>Result</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>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>N/A</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>
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

PUZZLE TOYS

Burning Rate (inch/sec)

0.03

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

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. Red coating on plastic (Pattern)	3	1	ND
2. Yellow coating on plastic (Pattern)	3	2	ND
3. Green coating on plastic (Pattern)	3	3	ND
4. Dark blue coating on plastic (Pattern, lettering)	3	4	ND
5. Orange coating on plastic (Pattern)	3	5	ND
6. Black wet paint	3	6	ND



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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)

Remark: As received, below test portion(s) is(are) less than 10 mg, therefore such component(s) was(were) not tested for certain migration elements, as specified in ASTM F963-17 Clause 8.3.3.6 (2) – Selection of Test Portions

Red coating on plastic (Pattern)
Yellow coating on plastic (Pattern)
Green coating on plastic (Pattern)
Dark blue coating on plastic (Pattern, lettering)
Orange coating on plastic (Pattern)
Black coating on plastic (Lettering)



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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. Black plastic (Body)	2	1	ND
2. White plastic (Body)	2	2	ND
3. Dark pink plastic (Body)	2	3	ND
4. Yellow plastic (Body)	2	4	ND
5. Green plastic (Body)	2	5	ND
6. Orange plastic (Body)	2	6	ND
7. Blue plastic (Body)	2	7	ND
8. Brown plastic (Body)	2	8	ND
9. Laminated plastic label w/ red printing (Sticker)	2	9	ND
10. Laminated plastic label w/ cream printing (Sticker)	2	10	ND
11. Laminated plastic label w/ pink printing (Sticker)	2	11	ND
12. Laminated plastic label w/ dark green printing (Sticker)	2	12	ND
13. Laminated plastic label w/ blue printing (Sticker)	2	13	ND
14. Laminated plastic label w/ light blue printing (Sticker)	2	14	ND
15. Laminated plastic label w/ orange printing (Sticker)	2	15	ND
16. Laminated plastic label w/ yellow printing (Sticker)	2	16	ND
17. Laminated plastic label w/ purple printing (Sticker)	2	17	ND
18. Laminated plastic label w/ light green printing (Sticker)	2	18	ND
19. Laminated plastic label w/ grey printing (Sticker)	2	19	ND
20. Dark red plastic label (Sticker)	2	20	ND
21. Laminated plastic label w/ dark yellow printing (Sticker)	2	21	ND
22. Green plastic label (Sticker)	2	22	ND
23. Laminated plastic label w/ dark orange-red printing (Sticker)	2	23	ND
24. Dark blue plastic label (Sticker)	2	24	ND
25. Silvery metal screw	4	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) -- 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	99.1	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	/	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	98.4	ND	ND	ND	ND	ND	ND	ND	ND
10	1	10	99.3	ND	ND	ND	ND	ND	ND	ND	ND
11	1	11	92.0	ND	ND	ND	ND	ND	ND	ND	ND
12	1	12	99.2	ND	ND	ND	ND	ND	ND	ND	ND
13	1	13	/	ND	ND	ND	ND	ND	ND	ND	ND
14	1	14	93.3	ND	ND	ND	ND	ND	ND	ND	ND
15	1	15	99.2	ND	ND	ND	ND	ND	ND	ND	ND
16	1	16	/	ND	ND	ND	ND	ND	ND	ND	ND
17	1	17	93.0	ND	ND	ND	ND	ND	ND	ND	ND
18	1	18	/	ND	ND	ND	ND	ND	ND	ND	ND
19	1	19	99.0	ND	ND	ND	ND	ND	ND	ND	ND
20	1	20	/	ND	ND	ND	ND	ND	ND	ND	ND
21	1	21	/	ND	ND	ND	ND	ND	ND	ND	ND
22	1	22	/	ND	ND	ND	ND	ND	ND	ND	ND
23	1	23	/	ND	ND	ND	ND	ND	ND	ND	ND
24	1	24	/	ND	ND	ND	ND	ND	ND	ND	ND



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Specimen Description:

1. Black plastic (Body)
2. White plastic (Body)
3. Dark pink plastic (Body)
4. Yellow plastic (Body)
5. Green plastic (Body)
6. Orange plastic (Body)
7. Blue plastic (Body)
8. Brown plastic (Body)
9. Laminated plastic label w/ red printing (Sticker)
10. Laminated plastic label w/ cream printing (Sticker)
11. Laminated plastic label w/ pink printing (Sticker)
12. Laminated plastic label w/ dark green printing (Sticker)
13. Laminated plastic label w/ blue printing (Sticker)
14. Laminated plastic label w/ light blue printing (Sticker)
15. Laminated plastic label w/ orange printing (Sticker)
16. Laminated plastic label w/ yellow printing (Sticker)
17. Laminated plastic label w/ purple printing (Sticker)
18. Laminated plastic label w/ light green printing (Sticker)
19. Laminated plastic label w/ grey printing (Sticker)
20. Dark red plastic label (Sticker)
21. Laminated plastic label w/ dark yellow printing (Sticker)
22. Green plastic label (Sticker)
23. Laminated plastic label w/ dark orange-red printing (Sticker)
24. Dark blue plastic label (Sticker)



- 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.

Remark:

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)



SGS authenticate the photo on original report only

*** End of Report ***

