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国际互认  
检测  
TESTING  
CNAS L2929

**Test Report**

No.: T52010280007TY-01

Date: MAR 10, 2021

Page 1 of 9

SHANTOU SIX SEVEN EIGHT TOYS INDUSTRIAL CO., LTD.  
BUMEI INDUSTRIAL DISTRICT, CHENGHAI,  
SHANTOU, GUANGDONG PROVINCE, CHINA

**This report supersedes all the previous documents bearing the test report number T52010280007TY**

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

ENGINEERING VEHICLE SERIES

Client Reference Information : 8020E,8021E,8022E,8023E,8024E,8025E,8026E,8027E,  
8028E,8029E,8030E,8031E,8032E,8033E,8034E,8035E,  
8036E,8037E,8040E,8048E,8049E,8050E,8051E,8052E,  
8053E,8054E,8055E,8056E,8057E,8058E,8059E,8060E,  
8061E,8062E,8063E,8064E,8065E,8066E,8067E,8068E,  
8069E,8070E,8071E,8072E,8073E,8074E,8075E,8076E,  
8077E,8078E,8079E,8080E,8081E,8082E,8083E,8084E,  
8085E,8086E,8087E,8088E,8089E,8090E,8090-1E,  
8090-2E,8090-3E,8090-4E,8090-5E,8090-6E,8090-7E,  
8090-8E,8091E,8092E,8093E,8094E,8095E,8096E,  
8097E,8098E,8099E,PT1940

Labeled Age Grading : NOT FOR CHILDREN UNDER 3 YEARS

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 : AUG 03, 2020

Last Submission Sample Date : MAR 08, 2021

Testing Period : AUG 03, 2020 TO MAR 10, 2021



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Shenzhen Branch Testing Center Hardlines

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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





Qu Ping, Kiky  
Dept. Manager  
CNAS Approved Signatories

Liu Junjie, Tony  
Section 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>N/A (See Remark)</u>
	Remark: The toy does not contain as-received small part.	
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>
4.13.1	Folding Mechanisms	<u>N/A</u>
4.13.2	Hinge-Line Clearance	<u>N/A</u>
4.14	Cords, Straps and Elastic	<u>N/A</u>



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<u>Clause</u>	<u>Description</u>	<u>Result</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>
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>
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>



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<u>Clause</u>	<u>Description</u>	<u>Result</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>
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

ENGINEERING VEHICLE SERIES

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

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. Black wet paint (Head)	01T-1	1	ND
2. Silvery wet paint (Head)	01T-1	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	01T-2	1	12.9	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Black coating on plastic (Head)



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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.

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

Silvery coating on plastic (Head)

**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 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. Yellow plastic (Hanger bar)	1	1	ND
2. Black plastic (Weight)	1	2	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	2	1	/	ND	ND	ND	ND	ND	ND	ND	ND
2	2	2	/	ND	ND	ND	ND	ND	ND	ND	ND

Specimen Description:

1. Yellow plastic (Hanger bar)
2. Black plastic (Weight)

- 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.



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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 [ $T_L - U_{95}$ ,  $T_L + U_{95}$ ]

This report updates test information.

**Sample Photo:**



SGS authenticate the photo on original report only

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



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