



TEST REPORT

Applicant: Hebei SMART Children toys Co., LTD
Address: 888 Bicycle Industrial Park, Pingxiang County, Xingtai City, Hebei Province
Manufacturer: Hebei SMART Children toys Co., LTD
Address: 888 Bicycle Industrial Park, Pingxiang County, Xingtai City, Hebei Province
Report on the submitted samples said to be:
Sample Name: children's electric four-wheeler
Sample Description: Toys
Trade Mark: N/A
Main test model: SMT-555
Series models: N/A
Labeled age grading: 3 years old and above
Test age: 3 years old and above
Testing Period: Mar.10, 2023 ~ Mar.16, 2023
Date of issue: Mar.16, 2023
Test request: Please refer to next pages.
Test Results: Please refer to next pages.

Prepared by(Engineer): Cheney Wei

Approved(Manager): Jade Yang



This test report is based on a single evaluation of one sample of above mentioned products. It is not permitted to be duplicated in extracts without written approval of Shenzhen DL Testing Technology Co., Ltd.



Version

Version No.	Date	Description
00	Mar.16, 2023	Original

Test request:

Conclusion

A ASTM F963-17 Standard Consumer Safety Specification for Toy Safety

1. Mechanical and Physical Tests

Pass

2. Section 4.2 Flammability Tests

Pass

3. Section 4.3.5 Heavy Metals Content

Pass

**Test results:****A 1. ASTM F963-17 Standard Consumer Safety Specification for Toy Safety - Mechanical and Physical Tests**

Section	Description	Result
4	Safety requirements	
4.1	Material quality	Pass
4.3.7	Stuffing Materials	N/A
4.4	Electrical/thermal energy	N/A
4.5	Sound producing toys	Pass
4.6	Small objects	Pass
4.7	Accessible edges	Pass
4.8	Projections	Pass
4.9	Accessible points	N/A
4.10	Wires or rods	N/A
4.11	Nails and fasteners	Pass
4.12	Packaging film	Pass
4.13	Folding mechanisms and hinges	N/A
4.14	Cords and elastics in toys	N/A
4.15	Stability and over-load requirements	N/A
4.16	Confined spaces	N/A
4.17	Wheels, tires, and axles	N/A
4.18	Holes, clearance, and accessibility of mechanisms	N/A
4.19	Simulated protective devices	N/A
4.20	Pacifiers	N/A
4.21	Projectile toys	N/A
4.22	Teethers and teething toys	N/A
4.23	Rattles	N/A
4.24	Squeeze toys	N/A
4.25	Battery-operated toys	Pass
4.26	Toys intended to be attached to a crib or playpen	N/A
4.27	Stuffed and beanbag-type toys	N/A
4.28	Stroller carriage toys	N/A
4.29	Art materials	N/A
4.30	Toy gun marking	N/A
4.31	Balloons	N/A
4.32	Certain toys with spherical ends	N/A
4.33	Marbles	N/A
4.34	Balls	N/A
4.35	Pompoms	N/A
4.36	Hemispheric-shaped objects	N/A
4.37	Yo Yo elastic tether toys	N/A
4.38	Magnets	N/A
4.39	Jaw entrapment in handles and steering wheels	N/A
4.40	Expanding Materials	N/A



Section	Description	Result
4.41	Toy chests	N/A
5	Labeling Requirements	
5.2	Age Grading Labeling	Pass
5.3	Safety labeling requirements	Pass
5.4	Aquatic Toys	Pass
5.5	Crib and Playpen Toys	N/A
5.6	Mobiles	N/A
5.7	Stroller and Carriage Toys	N/A
5.8	Toys Intended to be Assembled By an Adult	N/A
5.9	Simulated Protective Devices	N/A
5.10	Toys with Functional Sharp Edges or Points	N/A
5.11	Small objects, Small balls, Marbles and balloons	Pass
5.12	Toy Caps	N/A
5.13	Art Materials	N/A
5.14	Electric Toys	N/A
5.15	Battery-Operated Toys	Pass
5.16	Promotional Materials	N/A
5.17	Magnets	N/A
6	Instructional Literature	
6.1	Definition and Description	Pass
6.2	Crib and Playpen Toys	N/A
6.3	Mobiles	N/A
6.4	Toys Intended to be Assembled By an Adult	N/A
6.5	Battery-Operated Toys	Pass
6.6	Battery Powered Ride-on Toys	N/A
6.7	Toys in Contact with Food	N/A
6.8	Toys Chests	N/A
7	Producer's markings	
7.1	Name and address of the producer or distributor	Pass
7.2	Battery-Powered Ride-on Toys	N/A
7.3	Toy chests	N/A

Use and abuse testing

Test	Stated by the Voluntary Standard	Recommended for Toy Manufactures
Drop test	4×3.0 ft±0.5 in	4×3.0 ft
Torque test	4±0.2 in-lbf	4.2 in-lbf
Tension test	15±0.5 lbf	15±0.5lbf
Compression	30±0.5 lbf	30±0.5lbf

**A 2. Section 4.2 Flammability**

Flammability test of material

Method used: FHSA 16 CFR 1500.44: Method for determining extremely flammable and flammable solids.

Sample	Burn rate (in/sec.)	Result
Black plastic	DNI	Pass

Note: In accordance with the ASTM F963, the burning rate should not be greater than 0.1 inch per second.

DNI = Did Not Ignited

SE= Self-Extinguished

IBE= Ignite But Extinguished

A 3. Section 4.3.5 Heavy Metals content**Total Lead Content**

Test method: With reference to ASTM F963-17 Section 8.3.1, sample was digested with acid mixture and Analyzed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

(1) Paint and similar surface coating material

Test Item	Unit	MDL	Results	Limit
Lead (Pb)	mg/kg	10	N/A	90
Conclusion	-	-	N/A	-

(2) Toy Substrate Materials

Test Item	Unit	MDL	Results						Limit
			01	02	03	04	05	06	
Lead (Pb)	mg/kg	10	N.D	N.D	N.D	N.D	N.D	N.D	100
Conclusion	-	-	Pass	Pass	Pass	Pass	Pass	Pass	-

Soluble Heavy Metals Content

Test method: With reference to ASTM F963-17 Section 8.3.2. The heavy metals content was determined by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES).

(1) Paint and similar surface coating material

Item	Unit	MDL	Results	Limit
Soluble Lead (Pb)	mg/kg	2	N/A	90
Soluble Antimony (Sb)	mg/kg	2	N/A	60
Soluble Arsenic (As)	mg/kg	2	N/A	25
Soluble Barium (Ba)	mg/kg	2	N/A	1000
Soluble Cadmium (Cd)	mg/kg	2	N/A	75
Soluble Chromium (Cr)	mg/kg	2	N/A	60
Soluble Mercury (Hg)	mg/kg	2	N/A	60
Soluble Selenium (Se)	mg/kg	2	N/A	500



(2) Toy Substrate Materials

Item	Unit	MDL	Results						Limit
			01	02	03	04	05	06	
Soluble Lead (Pb)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	90
Soluble Antimony (Sb)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	60
Soluble Arsenic (As)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	25
Soluble Barium (Ba)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	1000
Soluble Cadmium (Cd)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	75
Soluble Chromium (Cr)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	60
Soluble Mercury (Hg)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	60
Soluble Selenium (Se)	mg/kg	2	N.D	N.D	N.D	N.D	N.D	N.D	500

Tested Parts

Code	Description of Specimen
01	Yellow plastic
02	Blue plastic
03	Black plastic
04	Black rubber
05	Black transparent plastic
06	Transparent plastic

Photo of the sample



