



TEST REPORT

Applicant : PINGHU SHUANGXI BABY CARRIER MANUFACTURE CO.,LTD.
Address : XINCANG TOWN,PINGHU CITY,ZHEJIANG PROVINCE,CHINA
Product Name : RIDE ON CAR
Brand name : N/A
Model No : SX1968
Report No : MTL25062409369S
Date of Receipt sample : Jun 19, 2025
Date of Test : From Jun 19, 2025 to July 02, 2025
Date of Issue : July 02, 2025
Test Result : PASS

Labeled Age Grading : 8-12 years old
Requested Age Grading : 8-12 years old
Age Group Applied in Testing : 8-12 years old

Remarks:

The results shown in this test report refer only to the sample(s) tested, this test report cannot be reproduced, except in full, without prior written permission of the company. The report would be invalid without specific stamp of test institute and the signatures of compiler and approver.

Tested by:

Approved by

Prepared By:

Shenzhen MTL Testing Technology Co., Ltd.
305, Building A, Shenghengji Industrial Park, No.137, Fuyuan 1st Road, Zhancheng Community,
Fuhai Street, Bao'an District, Shenzhen, Guangdong, China
Tel: +86-0755-23143231 Fax: +86-0755-23143231



Summary of Test Results:

TEST REQUEST

CONCLUSION

A ASTM F963-23 Standard Consumer Safety Specification for Toy Safety

Pass

1. Mechanical and Physical Tests (4.25 Battery-operated toys)

Results:

ASTM F963-23:

A.1 Safety aspects related to Mechanical and physical properties, electrical test (Battery-operated toys)

Main product model: SX1968

Product name: RIDE ON CAR

Manufacturer: PINGHU SHUANGXI BABY CARRIER MANUFACTURE CO., LTD.

XINCANG TOWN, PINGHU CITY, ZHEJIANG PROVINCE, CHINA

Battery charger model: ZNL-U240100

Battery charger Manufacturer: Changzhou Positive Energy Electrical Equipment Co., Ltd.

Battery model: 12V7AH*2

Battery Manufacturer: FUJIAN JIAGE POWER TECH CO LTD

Battery charge current: /, limit value: /

Battery charge voltage: /, limit value: /

Battery discharge current: /, limit value: /

Battery cut off voltage: /, limit value: /



Clause	Description	Result
4.25	Battery-operated toys	Pass
4.25.1	The toy shall be marked permanently on the battery compartment or on the area immediately adjacent to the battery compartment to show the correct battery polarity using the polarity symbols “+” and “-”.	Pass
4.25.2	Two accessible electrical points is 24 V nominal.	N/A
4.25.3	Battery-operated toys shall be designed so that it is not possible to charge any non-rechargeable battery. The non-replaceable batteries shall be identified as specified in 5.15	N/A
4.25.4	For toys intended for children less than 3 years old, after the trial of 8.5-8.10, do not contact all batteries without using household tools.	N/A
4.25.5	For all toys, batteries that fit completely within the small parts test cylinder shown in Fig. 3 shall not be accessible if not using the tools.	Pass
4.25.6	Different types or capacities shall not be mixed within any single electrical circuit.	Pass
4.25.7	The surfaces of the batteries shall not achieve temperatures exceeding 71°C.	Pass
4.25.8	No condition shall occur that would cause the toy to fail the temperature requirements of 4.25.7 or present a combustion hazard as described in 4.25.	Pass
4.25.9	Battery-operated toys shall meet the requirements of 6.5 for instructions on safe battery usage. Toys using a non-replaceable battery as the sole power supply are not required to meet 6.5	Pass
4.25.10	Battery-Powered Ride-On Toys—These requirements cover wheeled ride-on toys, not intended for streets or roadways, using a battery power source that is capable of delivering at least 8 amps into any variable resistor load for at least one minute.	Pass
4.25.10.1	The maximum temperature measured on the insulation of any conductor shall not exceed the certified temperature rating of the material when tested in accordance with 8.18.3.	Pass
4.25.10.2	Battery-powered ride-on toys shall not present a risk of fire when tested in accordance with the stalled motor test of 8.18.4.	Pass
4.25.10.3	A battery-powered ride-on toy designed with a wiring system that has a user replaceable device (fuse type) for the primary circuit protection or a wiring system with user reset table primary circuit protection (manual reset fuse) shall not actuate (open or trip) when tested in accordance with the nuisance tripping test of 8.18.5	Pass
4.25.10.4	Switches used in battery-powered ride-on toys.	Pass
4.25.10.5	User replaceable circuit protection devices in battery-powered ride-on toys.	Pass
4.25.10.6	Batteries, as described in 4.25.10, and battery chargers.	Pass
4.25.10.7	Wiring connected to the main/motor I battery shall be short-circuit protected and shall not present the risk of fire when tested in accordance with 8.18.8	Pass
4.25.10.8	Strain relief shall be provided to prevent mechanical stress on wires entering a connector block during routine maintenance such as battery charging, and tested in accordance with 8.18.9	N/A
4.25.10.9	Battery-powered ride on toys shall comply with the requirements in 5.15.1 for safety labeling, 6.6 for additional instructional literature, and 7.2 for required producer's markings.	Pass
4.25.11	Toys that Contain Secondary Cells or Secondary Batteries	Pass
4.25.11.1	Cells used in lithium ion or lithium ion polymer batteries incorporated into or included with toys	N/A



4.25.11.2	Lithium ion or lithium ion polymer batteries	N/A
4.25.11.3	Batteries that contain lithium ion or lithium ion polymer cells	N/A
4.25.11.4	During charging with the provided charging device	Pass
4.25.11.5	During charging or discharge with the provided charger and load	Pass
4.25.11.6	Normal use charging and discharging of a secondary battery	Pass
4.25.11.7	Battery chargers or power adaptors that plug into the electric mains power shall be listed by a Nationally Recognized Test Laboratory (NRTL) to an appropriate electrical safety standard.	Pass
4.25.11.8	Circuit wiring connected to lithium ion or lithium ion polymer and NiMH secondary batteries shall be short circuit protected and shall not present the risk of fire when tested in accordance with 8.19.5.	N/A
5.15	Battery-Operated Toys	Pass
5.15.1	Battery-Powered Ride-on Toys	Pass
5.15.1.1	Battery powered ride-on toys shall carry safety labeling in accordance with 5.3,consisting of the signal word“WARNING”and contain, at a minimum,text which clearly conveys the following	Pass
5.15.1.2	The packaging or point-of-sale literature of battery powered ride-on toys shall state the manufacturer’s recommended user age or weight limitations for use of the toy,or both.	Pass
5.15.1.3	The packaging or point-of-sale literature of battery powered ride-on toys shall bear the warnings as specified in 5.15.1.	Pass
5.15.2	Button or Coin Cell Batterys	N/A
5.15.2.1	The following requirements are applicable to consumer replaceable button or coin cell batteries that are 1.5 volts or greater, regardless of the chemistry,and are greater than 15 mm in diameter and fit within the small parts cylinder. The packaging and instructions of toys that operate from such button or coin cell batteries shall carry safety labeling in accordance with 5.3	N/A
6.5	Battery-Operated Toys(Each circuit uses more than one cell)	N/A
6.5.1	Do not mix old and new batteries.	Pass
6.5.2	Do not mix alkaline standard(carbon-zinc),or re chargeable batteries.	Pass
6.6	Battery-Operated Toys-For toys that use more than one battery per circuit, the instructions or the toy shall be marked with the following	N/A
6.6.1	Maximum weight or age limitations,or both, for safe use of the toy	N/A
6.6.2	The kinds of surfaces which are appropriate for safe use of the toy	N/A
6.6.3	The warning statements contained in 5.15.1.1	N/A
6.6.4	Only use the battery(ies) specified by the manufacturer, and	N/A
6.6.5	Only use the charger(s) specified by the manufacturer.	N/A
7.2	Battery-Powered Ride-on Toys-Battery-powered ride-on toys shall bear a permanent label or marking identifying the manufacturer or distributor, place of business, the model numbers, and a date of manufacture or date code that will allow determination of, at a minimum, the month and year of manufacture.	Pass



Clause	Description	Result
8	Test Methods	Pass
8.5	Normal Use Testing	Pass
8.5.1	Washable Toys	N/A
8.5.1.1	Conditions for Machine Washing and Tumble Drying	N/A
8.6	Abuse Testing	Pass
8.7	Impact Tests	Pass
8.7.1	Drop Test	Pass
8.7.2	Tipover Test for Large, Bulky Toys	Pass
8.7.2.1	Tipover Test for Large, Bulky Toys(three times)	Pass
8.7.3	Tumble Test for Wheeled Toys	N/A
8.7.4	Impact Test for Toys that Cover the Face	Pass
8.8	Torque Tests for Removal of Components	Pass
8.9	Tension Test for Removal of Components	Pass
8.9.1	Tension Test for Seams in Stuffed Toys and Beanbag Type Toys	N/A
8.9.1.1	The clamps used to grip the material on either side of the seam to be tested shall have jaws to which are attached 3/4-in. (19-mm) diameter washers (see Fig. 32). The clamps shall be attached to the cover material of a completely assembled stuffed toy in a manner such that the outside diameter of the 3/4-in. (19-mm) washers at a point nearest the seam shall be close to, but no closer than, 1/2 in. (13 mm) from the edge of the seam stitching thread. This seam test shall not be performed if the material adjacent to the seam cannot be grasped between the thumb and forefinger of the test personnel sufficient for full clamping by the 3/4-in. (19-mm) diameter washer jaws. If such is the case, a torque and tension test shall be performed on an arm, leg, or other appendage of the toy instead of the seam test.	N/A
8.9.1.2	In performing a seam test, the force appropriate for the age category into which the toy falls (see Table 5) shall be applied evenly within 5 s and maintained for an additional 10 s	N/A
8.9.2	Tension Test for Suction Cups on Projectiles	N/A
8.9.2.1	For projectiles with a suction cup as the leading edge, place a clamp on the shaft such that the edge of the clamp is at a point 57.61 mm from the tip of the projectile. Determine this distance in accordance with the procedure contained in 8.14.2. If, due to the length of the projectile, it is not possible to achieve 57 mm between the clamp and the tip of the projectile, place the clamp such that the distance between the clamp and the tip of the projectile is maximized. Place a second clamp around the suction cup such that it is held securely against a flat surface as shown in Fig. 33.	N/A
8.9.2.2	If either clamp causes any damage to the projectile, it is allowable to use alternative methods to secure the projectile.	N/A
8.9.2.3	Apply forces in accordance with the methods contained in 8.9	N/A
8.10	Compression Test	N/A
8.10.1	The loading device shall be a rigid metal disk 1.1256 ± 0.015 in. (0.380 mm) in diameter and 0.375 in. (9.52 mm) in thickness. The perimeter of the disk shall be rounded to a radius of 1/32 in. (0.8 mm) to eliminate irregular edge. The disk shall be attached to an appropriate compression scale having an accuracy of 60.5 lb (2 N). The disk shall be positioned so that the flat contact surface is parallel to the surface under test. The required	N/A



	force shall be applied evenly within 5 s through the disk. This load shall be maintained for an additional 10 s. The toy is to rest on a flat, hard surface in any convenient position during the test.	
8.17	Stalled Motor Test for Battery-Operated Toys	Pass
8.17.1	The test shall be conducted using a new toy. Each motor shall be tested separately using fresh alkaline batteries. If different battery chemistry is specifically recommended for use in the toy by the manufacturer, repeat the test using the batteries specified by the manufacturer. If the toy will not operate using alkaline batteries, test with the type of battery recommended by the manufacturer at the specified voltage. The test is to be carried out in a draft-free location at an ambient temperature of $20\pm5^{\circ}\text{C}$.	Pass
8.17.2	Operate the toy with moving parts that are mechanically linked to a motor locked in a fixed position. Only lock moving parts which can be stalled external to the toy. Do not disable any mechanical or electrical protective device such as clutches or fuses. Monitor the temperatures with the toy fully assembled. If normal use allows the motor to run unattended or if the toy has a non-recessed switch allowing it to be kept in the "on" position, operate the toy continuously and record the maximum temperatures. The test may be discontinued 60 min after the peak temperature of each component being tested is recorded. If the toy shuts off automatically or shall be kept "on" by hand or foot, monitor temperatures for 30 s, resetting the toy as many times as necessary to complete the 30 s of operation. If the toy shuts off automatically after an operating time of greater than 30 s, continue the test until the toy shuts off. At the conclusion of the test, the stalled motor condition shall not cause temperatures to exceed the limits of 4.25.7, or cause battery leakage, an explosion, or a fire.	Pass
8.18	Test of battery-powered riding toys.	Pass
8.18.1	The test was conducted using a fully charged battery. The test reference Cheesecloth was a 60 cotton yarn with 32×28 lines per inch.	Pass
8.18.2	Determination of the low-power circuits.	N/A
8.18.2.1	Adjust a variable resistance to the maximum resistance value and connect it to between the point to be investigated and the opposite pole of the power source. The toy is supplied at a rated voltage.	N/A
8.18.2.2	The resistance is then adjusted until the power consumed by that resistance is at its maximum.	Pass
8.18.3	Maximum temperature test.	N/A
8.18.3.1	Mechanical preprocess all electrical pressure ports used to charge or discharge the battery. If the main harness connector is provided, the main harness connector shall be connected and disconnected 600 times before performing the maximum temperature test. If a user-replaceable fuse is provided, it shall be removed and inserted 25 times before performing the maximum temperature test	N/A
8.18.3.2	Power the test sample using the fully charged battery as specified by the manufacturer. Operate the vehicle in a mode that causes the maximum continuous current.	N/A
8.13.3.3	Operating the vehicle continuously until the battery is exhausted or the thermal equilibrium is reached	Pass
8.18.4	Battery-powered ride toy motor stop test.	Pass
8.18.5	Nuisance Tripping Test	N/A
8.18.6	Durability and overload test of the switches	Pass
8.18.7	Storage battery overcharging test	Pass
8.18.8	Short circuit protection test	Pass
8.18.9	Stress Relief Test	N/A
8.19	Testing of toys containing batteries and battery packs	Pass



8.19.1	Pre-Conditioning	Pass
8.19.2	Battery Overcharge Test	Pass
8.19.3	Repetitive Overcharge Test	Pass
8.19.4	Single Fault Charging Test	N/A
8.19.5	Short Circuit Protection Test	Pass

Test case verdicts

Test case does not apply to this subclause..... : N/A

Test item does meet the requirement : P(Pass)



FIGURE 1



FIGURE 2



FIGURE 3

*** End of Report ***