

**Test Report**

Number: SHAH01302059

Applicant: SHANGHAI CHANGYI MACHINERY MANUFACTURE  
CO., LTD  
NO 1185 YONGXIN RD, XUZHANG TOWN, JIADING  
DIST, SHANGHAI, CHINA  
Attn: TAN JUN RONG

Date: Feb 07, 2021

Sample Description:

One (1) group of submitted sample said to be **Space Scooter**  
Item Name : Space Scooter  
Item No. : X540/X560/X560S  
Goods Exported To : EUROPEA  
Country Of Origin : CHINA

Tests Conducted:

As requested by the applicant, for details refer to attached page(s).

Conclusion:

<u>Tested samples</u>	<u>Standard</u>	<u>Result</u>
Submitted sample	With reference to EN 14619: 2019 - roller sports equipment - kick scooters - safety requirements and test methods	Pass
	EN71-2: 2011+A1: 2014 Flammability Test	Pass
Tested components of submitted sample	EN 71-3:2019 on migration of certain elements	Pass
	EN 71-3: 2019 on migration of certain elements & EU 2019/1922 amending 2009/48/EC (effective from May, 20,2021) for Aluminium (Al) migration	Pass

Remark :

The submitted samples were examined not toys and were not subjected to the scope of the European standard of toys EN 71. However, as requested by the applicant, the submitted sample was assessed under the requirement of EN 71, and the result met the requirement of the standard.

To be continued

Authorized By:  
For Intertek Testing Services Ltd., Shanghai



Bill Zhang  
General Manager



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Tests Conducted

**1 ROLLER SPORTS EQUIPMENT- KICK SCOOTERS**

With reference to EN 14619: 2019 - roller sports equipment- kick scooters- safety requirements and test methods, the submitted samples were subjected to the following tests:

Number of samples tested: Two (2) samples.

Initial inspection: No damage was found.

Maximum weight of user claimed: X540:115kg X560:115kg

Classification of kick scooters: Class A

Executive summary:

Clause	Testing items	Assessment
1	Scope	-
2	Normative references	-
3	Terms and definitions	-
4	Construction	-
4.1	General	-
4.2	Classification of kick scooters	Class A
4.3	Requirements	-
4.3.1	Protruding components and edges	P
4.3.2	Parts moving against each other	-
4.3.2.1	General	-
4.3.2.2	Distance between the parts	P (See remark)
4.3.2.3	Folding mechanism	X540: NA X560: P
4.3.2.4	Sliding mechanism others than the steering system	NA
4.3.2.5	Springs	P
4.3.3	Steering system	P
4.3.4	Deck	P
4.3.5	Bearings	P
4.3.6	Axles	P
4.3.7	Wheels	P
4.3.8	Self-locking fixings	P
4.3.9	Mechanism to reduce the speed	P
4.3.10	Strength	P
5	Test methods	-
6	Marking	-
6.1	On the kick scooter	P
6.2	On the package	P
7	Information supplied by the manufacturer	-
7.1	General	P
7.2	Instructions for use	P
7.3	Servicing and maintenance instructions	P

Abbreviation: P=Pass; NA=Not Applicable; F=Fail; NC = Not Conducted; NR = Not Requested

Remark:

#1. The test sample was not subjected to the scope of the standard, however as requested by the client, refer to the test method, the mechanical test could comply with the requirement of EN 14619:2019.

#2. Although the design does not present a high safety hazard when in use, there is still a technical failure against the requirement of EN 14619:2019, we recommended that the design should be improved.

#3. Although the design does not present an immediate safety hazard, there is still a technical failure against the requirement of 4.3.2.2, we recommend that the design should be modified.

#4. The sample claimed 115kg weight limit on the scooter, we only tested 100kg weight limit on the scooter.



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### Tests Conducted

#### 2 Flammability Test

Based on European Standard on Safety of Toys EN71-2: 2011+A1: 2014

Clause	Testing Items	Assessment
4.1	General	P
4.2	Toys to be worn on the head	
4.2.2	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude 50 mm or more from the surface of the toy	NA
4.2.3	Beards, moustaches, wigs, etc., made from hair, pile or material with similar features, which protrude less than 50 mm from the surface of the toy	NA
4.2.4	Full or partial moulded head masks	NA
4.2.5	Flowing elements of toys to be worn on the head	NA
4.3	Toy Disguise Costumes and Toys Intended to be Worn by a Child in Play	NA
4.4	Toys Intended to be Entered by a Child	NA
4.5	Soft Filled Toys	NA

Remark : P = Pass NA = Not Applicable

Date Sample Received: Jan.11, 2021

Testing Period: Jan.11, 2021 to Jan.13, 2021



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### Tests Conducted

#### 3 19 Toxic Elements Migration Test

##### (A) Test Result

As per EN 71-3:2019 and followed by Inductively Coupled Plasma Atomic Emission Spectrometry, Inductively Coupled Argon Mass Spectrometry, Ion Chromatography- Inductively Coupled Plasma-Mass Spectrometry, and Gas Chromatographic - Mass Spectrometry.

Category (III): Scraped-off toy material

<u>Element</u>	<u>Result (mg/kg)</u>					<u>Limit (mg/kg)</u>
	(1)#	(2)	(3)	(4)	(5)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000/28130◎
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	363	25	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
Chromium (III) (Cr III) **	< 10	< 10	< 10	< 10	< 10	460
Chromium (VI) (Cr VI) **	< 0.025	< 0.025	< 0.025	< 0.025	< 0.025	0.053
Cobalt (Co)	< 10	< 10	< 10	< 10	< 10	130
Copper (Cu)	< 10	< 10	< 10	< 10	< 10	7700
Lead (Pb)	< 10	< 10	< 10	< 10	< 10	23
Manganese (Mn)	24	< 10	< 10	< 10	< 10	15000
Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	< 10	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	164	102	< 100	< 100	46000

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### Tests Conducted

Element	Result (mg/kg)					Limit (mg/kg)
	(6)	(7)#	(8)	(9)	(10)	
Aluminium (Al)	< 300	< 300	< 300	< 300	< 300	70000/28130©
Antimony (Sb)	< 10	< 10	< 10	< 10	< 10	560
Arsenic (As)	< 10	< 10	< 10	< 10	< 10	47
Barium (Ba)	< 10	25	< 10	< 10	< 10	18750
Boron (B)	< 50	< 50	< 50	< 50	< 50	15000
Cadmium (Cd)	< 5	< 5	< 5	< 5	< 5	17
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Mercury (Hg)	< 10	< 10	< 10	< 10	< 10	94
Nickel (Ni)	< 10	11	< 10	< 10	< 10	930
Selenium (Se)	< 10	< 10	< 10	< 10	< 10	460
Strontium (Sr)	< 100	< 100	< 100	< 100	< 100	56000
Tin (Sn)	< 10	< 10	< 10	< 10	< 10	180000
Organic tin **	< 3.0	< 3.0	< 3.0	< 3.0	< 3.0	12
Zinc (Zn)	< 100	< 100	< 100	< 100	< 100	46000

Remark: mg/kg = Milligram per kilogram

\*\* = Unless the test results were marked with "#" or "Δ", Chromium (III) & Chromium (VI) and Organic tin contents were not directly determined and were derived from migration results of total chromium and tin respectively.

- Organic tin test result was expressed as tributyl tin.

© = The new Aluminium (Al) migration limit [2250mg/kg for Category (I), 560mg/kg for Category (II), 28130mg/kg for Category (III)] was quoted from directive (EU) 2019/1922 amending 2009/48/EC effective from 20 May 2021.

# = Confirmation of Chromium (VI) test was performed on the tested component. And the reported value of migration of Chromium (III) = migration value of total Chromium – migration value of Chromium(VI).

Tested Component(s): See component list in the last section of this report.

### (B) Categories of various toy materials

Category I: Dry, brittle, powder like or pliable

Solid toy material from which powder-like material is released during playing and semi-solid materials that may also leave residues on the hands during play. The material can be ingested. Contamination of the hands with the material may contribute to the oral exposure of the material. (e.g. the cores of colouring pencils, chalk, crayons, modelling clays and plaster).

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### Tests Conducted

Category II: Liquid or sticky

Fluid or viscous toy material, which can be ingested or to which dermal exposure may occur during playing. (e.g. liquid paints, finger paints, liquid ink in pens, glue sticks, slimes, bubble solution).

Category III: Scraped-off

Solid toy material with or without a coating, which can be ingested as a result of biting, tooth scraping, sucking or licking. (e.g. coatings, lacquers, plastics, paper, textiles, glass, ceramic, metallic, wooden, bone, leather and other materials).



Picture 1: sample as received

Date Sample Received: Jan.11, 2021 & Feb.3, 2021

Testing Period: Jan.11, 2021 to Feb.4, 2021

### Components List:

- (1) Black coating on metal. (on frame)
- (2) Rose foam. (handle)
- (3) Pink soft plastic. (brake steel jacket)
- (4) Black plastic. (brake handle & cap on frame & washer & pulley box)
- (5) White plastic. (washer on inter-connect)
- (6) Transparent adhesive plastic film with underlying coatings. (sticker)
- (7) White adhesive sand plastic film with underlying coatings. (sticker)
- (8) Black soft plastic. (under footboard)
- (9) Black soft plastic. (tyre)
- (10) Rose plastic. (wheel)

End of report

The statements of conformity reported have considered the decision rule agreed, namely that Intertek have taken account of measurement uncertainty as calculated by Intertek, and applied according to ILAC-G8/09:2019 (Non-binary acceptance based on guard band  $w = U$ ) except designation from the customer, regulation or test specification. This decision rule only applies to the numeric test results.

The sample(s) and sample information hereto are provided by the client who shall be solely responsible for the authenticity and integrity thereof. The results shown in this report relate only to the sample(s) tested. It is not intended to be a recommendation for any particular course of action. Intertek does not accept a duty of care or any other responsibility to any person other than the Client in respect of this report and only accepts liability to the Client insofar as is expressly contained in the terms and conditions governing Intertek's provision of services to you. Intertek makes no warranties or representations either express or implied with respect to this report save as provided for in those terms and conditions. We have aimed to conduct the review on a diligent and careful basis and we do not accept any liability to you for any loss arising out of or in connection with this report, in contract, tort, by statute or otherwise, except in the event of our gross negligence or wilful misconduct. This report shall not be reproduced unless with prior written approval from Intertek Testing Services Shenzhen Ltd. Remark: \*The testing data and result issued by this report are just for scientific research, teaching, internal quality control, product research and development etc. on reference only in the territory of the People's Republic of China.