



# TEST REPORT

**Prepared for:**

**Ningbo Lili Trade Co., Ltd.**

**No 275 Xintuo Road 1 zhuang B406 Ningbo Daxie development zones Zhejiang China**

**Product: Bicycle**

**Model Name: S26102**

**Trade Name: ELECONY**

**Date of Test: From August 17, 2021 to August 20, 2021**

**Date of Report: September 03, 2021**

**Report Number: HK2108253017-1RR**

**Prepared by:**

**Shenzhen HUAK Testing Technology Co., LTD.**

**1-2/F., Building B2, Junfeng Zhongcheng Zhizao Innovation Park, Heping,  
Fuhai Street, Bao'an District, Shenzhen Guangdong, China**



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**Applicant:** Ningbo Lili Trade Co., Ltd.  
**Address:** No 275 Xintuo Road 1 zhuang B406 Ningbo  
 Daxie development zones Zhejiang China  
**Manufacturer:** Ruifu Technology (Tangshan) Co., Ltd.  
**Address:** Hubang Road, Lutai Rural Economic Development  
 Zone, Ninghe District, Tianjin, China

**The following sample was submitted and identified by/on behalf of the client as:**

Sample Name: Bicycle  
 Model No.: S26102  
 Trade Name: ELECONY  
 Tested Age Grade: Over 16 Years  
 Labeled Age Grading: 16 +  
 Appropriate Age Grade: Over 16 Years  
 Sample Receiving Date: August 17, 2021  
 Testing Period: From August 17, 2021 to August 20, 2021  
 Results: Please refer to next page(s).

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Signed for and on behalf of HUAK

Approved by: \_\_\_\_\_  
Lab Manager

Remark: Only selected materials were tested as per client's requirement.



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## Summary of Test Results:

### TEST REQUEST

- A As specified in title 16, code of federal regulations, chapter II- consumer products safety commission of U.S.A
  - 1. 16 CFR 1500.50.51.52.53 Simulating use and abuse of toys
  - 2. 16 CFR 1512 Requirements For Bicycles
- B US Consumer Products Safety Improvement Act of 2008(H. R. 4040) title 1, section 101 for total lead content in substrate
- C Consumer Product Safety Commission 16 CFR Ch. II Part 1303 - Ban of lead in paint and similar surface coating
- D US Consumer Products Safety Improvement Act of 2008(H. R. 4040) title 1, section 108 requirement on phthalates content
- E CPSIA Section 103 Tracking Labels for Children's Products

### CONCLUSION

- PASS
- PASS
- PASS
- NA
- PASS
- PASS

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**Results:**

**A.1 As specified in title 16, code of federal regulations, chapter II- consumer products Safety commission of U.S.A**

| Section                    | Description           | Result |
|----------------------------|-----------------------|--------|
| 16 CFR<br>1500.50.51.52.53 | Normal use testing    | Pass   |
|                            | Abuse testing         |        |
|                            | Impact test(53b)      | Pass   |
|                            | Bite test             | Pass   |
|                            | Flexure test          | Pass   |
|                            | Torque test (53e)     | Pass   |
|                            | Tension test (53f)    | Pass   |
|                            | Compression test(53g) | Pass   |

-- NA = Not Applicable

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## A.2 16 CFR 1512 Requirements For Bicycles:

| Section | Description                      | Result |
|---------|----------------------------------|--------|
| 1512.3  | Requirements in general.         | Pass   |
| 1512.4  | Mechanical requirements.         |        |
| (a)     | Assembly.                        | Pass   |
| (b)     | Sharp edges.                     | Pass   |
| (c)     | Integrity.                       | Pass   |
| (d)     | Attachment hardware.             | Pass   |
| (e)-(f) | [Reserved]                       | Pass   |
| (g)     | Excluded area.                   | Pass   |
| (h)     | [Reserved]                       | NA     |
| (i)     | Control cable ends.              | Pass   |
| (j)     | Control cable abrasion.          | Pass   |
| 1512.5  | Requirements for braking system. | Pass   |
| (a)     | Braking system.                  | Pass   |
| (b)     | Handbrakes.                      | Pass   |
| (1)     | Stopping distance.               | Pass   |
| (2)     | Hand lever access.               | Pass   |
| (3)     | Grip dimension.                  | Pass   |
| (4)     | Attachment.                      | Pass   |
| (5)     | Operating force.                 | Pass   |
| (6)     | Pad and pad holders.             | Pass   |
| (7)     | [Reserved]                       | Pass   |
| (8)     | Hand lever location.             | Pass   |
| (9)     | Hand lever extensions.           | Pass   |
| (c)     | Footbrakes.                      | Pass   |
| (1)     | Stopping distance.               | Pass   |
| (2)     | Operating force.                 | Pass   |
| (3)     | Crank differential.              | Pass   |
| (4)     | Independent operation.           | Pass   |

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| Section | Description                               | Result |
|---------|---|--------|
| (d)     | Footbrakes and handbrakes in combination. | Pass   |
| (e)     | Sidewalk bicycles.                        | Pass   |
| 1512.6  | Requirements for steering system.         | Pass   |
| (a)     | Handlebar stem insertion mark.            | Pass   |
| (b)     | Handlebar stem strength.                  | Pass   |
| (c)     | Handlebar.                                | Pass   |
| (d)     | Handlebar ends.                           | Pass   |
| (e)     | Handlebar and clamps.                     | Pass   |
| 1512.7  | Requirements for pedals.                  |        |
| (a)     | Construction.                             | Pass   |
| (b)     | Toe clips.                                | Pass   |
| (c)     | Pedal reflectors.                         | Pass   |
| 1512.8  | Requirements for drive chain.             | Pass   |
| 1512.9  | Requirements for protective guards.       |        |
| (a)     | Chain guard.                              | Pass   |
| (b)     | Derailleur guard.                         | Pass   |
| 1512.10 | Requirements for tires.                   | Pass   |
| 1512.11 | Requirements for wheels.                  |        |
| (a)     | Spokes.                                   | Pass   |
| (b)     | Alignment.                                | Pass   |
| (c)     | Rims.                                     | Pass   |
| 1512.12 | Requirements for wheel hubs.              |        |
| (a)     | Locking devices.                          | Pass   |
| (1)     | Rear wheels.                              | Pass   |
| (2)     | Front wheels.                             | Pass   |
| (b)     | Quick-release devices.                    | Pass   |
| (c)     | Front hubs.                               | Pass   |
| 1512.13 | Requirements for front fork.              | Pass   |
| 1512.14 | Requirements for fork and frame assembly. | Pass   |

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| Section | Description   | Result |
|---------|---|--------|
| 1512.15 | Requirements for seat.                                      |        |
| (a)     | Seat limitations.   | Pass   |
| (b)     | Seat post.  | Pass   |
| (c)     | Adjustment clamps.  | Pass   |
| 1512.16 | Requirements for reflectors.                                |        |
| (a)     | Front, rear, and pedal reflectors.                          | Pass   |
| (b)     | Side reflectors.  | Pass   |
| (c)     | Front reflector.  | Pass   |
| (d)     | Rear reflector.   | Pass   |
| (e)     | Pedal reflectors.   | Pass   |
| (f)     | Side reflectors.  | Pass   |
| (g)     | Reflector tests.  | Pass   |
| (h)     | Retro reflective tire sidewalls.                            | Pass   |
| (i)     | Retro reflective rims.                                      | Pass   |
| 1512.17 | Other requirements.   |        |
| (a)     | Road test.  | Pass   |
| (b)     | Sidewalk bicycle proof test.                                | Pass   |
| (c)     | Ground clearance.   | Pass   |
| (d)     | Toe clearance.  | Pass   |
| 1512.18 | Tests and test procedures.                                  |        |
| (a)     | Sharp edge test. [Reserved]                                 | Pass   |
| (b)     | [Reserved]  | NA     |
| (c)     | Protective cap and end-mounted devices test.                | Pass   |
| (d)     | Handbrake loading and performance test: (Ref .§1512. 5(b)). | Pass   |
| (1)     | Apparatus   | Pass   |
| (2)     | Procedure.  | Pass   |
| (i)     | Loading test procedure.                                     | Pass   |
| (ii)    | Loading test criteria.                                      | Pass   |
| (iii)   | Rocking test procedure.                                     | Pass   |

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| Section | Description   | Result |
|---------|---|--------|
| (iv)    | Rocking test criteria.  | Pass   |
| (v)     | Performance test procedure.                                       | Pass   |
| (e)     | Footbrake force and performance test. (Ref . §1512.5(c)(1)and(2)) | Pass   |
| (1)     | Apparatus.  | Pass   |
| (2)     | Force test.   | Pass   |
| (3)     | Performance test.   | Pass   |
| (f)     | Sidewalk bicycle footbrake force test.                            | Pass   |
| (g)     | Handlebar stem test.  | Pass   |
| (1)     | Procedure.  | Pass   |
| (2)     | Criteria.   | Pass   |
| (h)     | Handlebar test. (Ref . § 1512.6(e))                               | Pass   |
| (1)     | Stem-to-fork clamp test.  | Pass   |
| (2)     | Handlebar strength and clamp test.                                | Pass   |
| (i)     | Pedal slip test. [Reserved]                                       | Pass   |
| (j)     | Rim test. (Ref . §§ 1512.10 and 1512.11(c))                       | Pass   |
| (1)     | Procedure.  | Pass   |
| (2)     | Criteria.   | Pass   |
| (3)     | Front hub retention test.(Ref . § 1512.12(c))                     | Pass   |
| (k)     | Fork and frame test. (Ref . §§ 1512.13 and 1512.14)               | Pass   |
| (1)     | Fork test.  | Pass   |
| (2)     | Fork and frame assembly test.                                     | Pass   |
| (l)     | Seat adjustment clamps and load test. (Ref . § 1512.15(c)).       | Pass   |
| (1)     | Procedure.  | Pass   |
| (2)     | Criteria.   | Pass   |
| (m)     | Reflector mount and alignment test. (Ref . § 1512.16 (c)and(d))   | Pass   |
| (1)     | Procedure.  | Pass   |
| (2)     | Criteria.   | Pass   |
| (i)     | During test.  | Pass   |
| (ii)    | Post test.  | Pass   |

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| Section | Description   | Result |
|---------|---|--------|
| (n)     | Reflector test (Ref. §1512.16(g))   | Pass   |
| (1)     | Conditioning.   | Pass   |
| (i)     | Warp age conditioning.  | Pass   |
| (ii)    | Mechanical impact conditioning.   | Pass   |
| (iii)   | Moisture conditioning.  | Pass   |
| (2)     | Reflector performance test.   | Pass   |
| (o)     | Reflective tire and rim test(Ref. § 1512.16(h)and (i))  | Pass   |
| (1)     | Apparatus.  | Pass   |
| (2)     | Procedure   | Pass   |
| (i)     | Masking.  | Pass   |
| (ii)    | Orientation.  | Pass   |
| (iii)   | Measurement.  | Pass   |
| (iv)    | Criteria.   | Pass   |
| (p)     | Road test. (Ref. §§ 1512.15(c) and 1512.17(a))  | Pass   |
| (1)     | Procedure.  | Pass   |
| (2)     | Criteria.   | Pass   |
| (q)     | Sidewalk bicycle proof test. (Ref. §§1512.15(c)and 1512. 17(b))   | Pass   |
| (1)     | Procedure.  | Pass   |
| (r)     | Abrasion test for retro reflective rims. (Ref .§ 1512.16(ii))   | Pass   |
| 1512.19 | Instructions and labeling.  |        |
| (a)     | The instruction manual shall include at least the following:  |        |
| (1)     | Operations and safety instructions describing operation of the brakes and gears, cautions concerning wet weather and night-time operation, and a guide for safe on-and-off road operation.  | Pass   |
| (2)     | Assembly instructions for accomplishing complete and proper assembly.   | Pass   |
| (3)     | Maintenance instructions for proper maintenance of brakes, control cables, bearing adjustments, wheel adjustments. lubrication, reflectors, tires and handlebar and seat adjustments; should the manufacturer determine that such maintenance is beyond the capability of the consumer. Specifics regarding locations where such maintenance service can be obtained shall be included. | Pass   |

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| Section | Description   | Result |
|---------|---|--------|
| (b)     | A bicycle less than fully assembled and fully. adjusted shall have clearly displayed on any promotional display material and on the outside surface of the shipping carton the following: (1) A list of tools necessary to properly accomplish assembly and adjustment, (2) a drawing illustrating the minimum leg-length dimension of a rider and a method of measurement of this dimension.   | Pass   |
| (c)     | The minimum leg-length dimension shall be readily understandable and shall be based on allowing no less than one inch of clearance between (1)the top tube of the bicycle and the ground plane and (2) the crotch measurement of the rider. A girl's style frame shall be specified in the same way using a corresponding boys' model as a basis.   | Pass   |
| (d)     | (Reserved]  | NA     |
| (e)     | Every bicycle subject to the requirements of this part 1512 shall bear a marking or label that is securely affixed on or to the frame of the bicycle in such a manner that the marking or label cannot be removed without being defaced or destroyed. The marking or label shall identify the name of the manufacturer or private I a bear and shall also bear some form of marking from which the manufacturer can identify the month and year of manufacture or from which the private labeler can identify the manufacturer and the month and year of manufacture. For purposes of this paragraph, the term manufacture means the completion by the manufacturer of a bicycle of those construction or assembly operations that are performed by the manufacturer before the bicycle is shipped from the manufacturer's place of production for sale to distributors, retailers, or consumers. | Pass   |
| 1512.20 | Separability.   | Pass   |

--NA= Not Applicable

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Tested part(s):

|         |                         |
|---------|-------------------------|
| Seq. no | Part(s) name            |
| 1       | Yellow to white plastic |

### B.US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1, section 101fortotal lead content

**Test method:** With reference to CPSC-CH-E1001-08.3, CPSC-CH-E1002-08.3, by acid digestion and analysis was performed by inductively coupled plasma atomic emission spectrometer (ICP-AES).

| Item              | Unit  | MDL | Results     | Limit     |
|-------------------|-------|-----|-------------|-----------|
|                   |       |     | (1)         |           |
| Lead Content (Pb) | mg/kg | 5   | N.D.        | 100 mg/kg |
| <b>Conclusion</b> | /     | /   | <b>Pass</b> | /         |

### C. Consumer Product Safety Commission 16 CFR Ch. II Part 1303 - Ban of lead in paint and similar surface coating

**Test method:** Lead in paint and other similar surface coatings: With reference to CPSC-CH-E1003-09.1, sample was digested with acid mixture and analyzed by inductively coupled plasma atomic emission spectrometer (ICP-AES).

| Item              | Unit  | MDL | Results   | Limit |
|-------------------|-------|-----|-----------|-------|
|                   |       |     | (1)       |       |
| Lead Content (Pb) | mg/kg | 5   | NA        | 90    |
| <b>Conclusion</b> | /     | /   | <b>NA</b> | /     |

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### D. US Consumer Products Safety Improvement Act of 2008(H.R. 4040) title 1,section 108requirementon phthalates content

**Test method:** With reference to CPSC-CH-C1001-09.4, by sol vent extraction and analysis was performed by gas chromatographic-mass spectrometer (GC-MS).

| Item                               | Unit | MDL   | Results     | Limit |
|------------------------------------|------|-------|-------------|-------|
|                                    |      |       | (1)         |       |
| Dibutyl Phthalate (DBP)            | %    | 0.003 | N.D.        | 0.1%  |
| Benzylbutyl Phthalate (BBP)        | %    | 0.003 | N.D.        | 0.1%  |
| Bis-(2-ethylhexyl) Phthalate(DEHP) | %    | 0.003 | N.D.        | 0.1%  |
| Diisononyl Phthalate (DINP)        | %    | 0.01  | N.D.        | 0.1%  |
| Di-isobutyl Phthalate (DIBP)       | %    | 0.01  | N.D.        | 0.1%  |
| Dicyclohexyl Phthalate (DCHP)      | %    | 0.01  | N.D.        | 0.1%  |
| Di-n-hexyl Phthalate (DHEXP)       | %    | 0.01  | N.D.        | 0.1%  |
| Di-n-pentyl Phthalates (DPENP)     | %    | 0.01  | N.D.        | 0.1%  |
| <b>Conclusion</b>                  | /    | /     | <b>Pass</b> | /     |

**Note:**

- N.D.=Not Detected or less than MDL.
- MDL=Method Detection Limit.
- NA= Not Applicable
- %=Percentage by weight.
- 0.1%=1000mg/kg, mg/kg=ppm.

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## E. CPSIA Section 103 Tracking Labels for Children’s Products

| Description  | Result |
|--|--------|
| a) Is the product intended for children under 12 years? If no, the section is not applicable.  | Not    |
| b) Is the product under the exemption of marking on children’s product?  | Not    |
| 1. Product is too small to be marked.  | Not    |
| 2. Products stay with or be contained in their original packaging.   | Not    |
| 3. Product is sold through a bulk vending matching.  | Not    |
| 4. Physical mark would weaken or damage the product or impair its utility.   | Not    |
| 5. Product surface would be impossible to mark permanently.  | Not    |
| 6. Aesthetics of the product would be ruined by a mark.  | Not    |
| c) Is the product and packaging or only packaging (for product exempted from the marking) marked below information?                      | Pass   |
| 1) Name of the manufacturer or the name of the private labeler.  | Yes    |
| 2) Manufacturer or private labeler location, including the name of the country, and the name or other means of coding of city and state. | Yes    |
| 3) Date of production of the product, in a form of MM/YY or any other coding system.   | Yes    |
| 4) Cohort information (including the batch, run number, or another identifying characteristic).  | Yes    |
| d) Is the label permanent after below permanency testing?  | Pass   |

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### \*\* Modified History \*\*

| Revision     | Description   | Issued Data | Remark     |
|--------------|---|-------------|------------|
| Revision 1.0 | Initial Test Report Release                           | 2021/08/20  | Jason Zhou |
| Revision 2.0 | All test data were obtained from:<br>HK2108172773-1RR | 2021/09/03  | Jason Zhou |
|              |   |             |            |





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## Photograph of Sample



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