



TEST REPORT

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 DATE : JULY 25, 2023
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Applicant :
 GUANGDONG XINLEXIN EDUCATION AND CULTURE CO.,LTD
 Gounei industrial District in Lianxia Town Chenghai Shantou Guangdong China

Date of Submission: 2023-07-25
 Test Period: 2023-07-25 to 2023-07-25
 Sample Mode: Sample Presentation
 BV EE Ref. No. BV: /

| | | | |
|----------------------|--|-------------------------|---|
| Sample Description : | Sample(s) received is(are) stated to be: Educational toy | | |
| Manufacturer: | / | Buyer: | / |
| Style No(s) : | / | PO No. : | / |
| Country of Origin: | CHINA | Country of Destination: | / |
| REFERENCE/TYPE: | 70010,70009,70008,70007,70006,70005,70004,70003,70002,70001,60029,60028,60027,60026, 60025,60022,60021,60020,60019,60018,60017,60016,60015,60014,60013,60012,60011,60010, 60009,60008,60007,60006,60005,60004,60003,60002,60001, 51013,51012,51011,51010,51009,51000,50507,50506,50505,50504,50503,50502,50501,50401, 50202,50201,50104,50103,50102,50101,50002,50001,40603,40602,40601,40504,40405,40404, 40403,40402,40401,40303,40302,40301,40206,40205,40204,40203,40202,40201,40004,40003, 40002,40001,30207,30206,30203,30202,30201,30007,30006,30005,30004,30003,30002,30001, 20406,20405,20404,20403,20402,20401,20107,20106,20105,20104,20103,20102,20101,11005, 11004,11003,11002,11001,10804,10803,10802,10801,10704,10703,10702,10701,10503,10502, 10501,10206,10205,10204,10203,10202,10201,10007,10006,10005,10004,10003,10002,10001, 9615,9613,9606,9051,9050,9049,9048,9047,9046,9045,9044,9043,9042,9041,9040,9039,9038, 9037,9036,9035,9034,9033,9032,9031,9030,9028,9027,9026,9024,9023,9022,9021,9020,9017, 9016,9012,9011,9010,9009,9001,8816,8815,8720,8715,8713,8711,8028,8026,2926,2925,2924, 2923,2922,2921,2918,2911,2908,2907,2901,2811,2810,2808,2808,2807,2806,2805,2803,2802, 2801,2629,2624,2623,2622,2621,2618,2616,2616,2610,2609,2608,2607,2606,2605,2604,2603, 2602,2601,2600,2568,2567,2566,2565,2563,2561,2554,2553,2551,2531,2528,2527,2526, 2525,2524,2523,2522,2521,2516,2515,2514,2513,2512,2511,2507,2506,2505,2504,2503,2502, 2501,2201,2111,2102,2101,2015,2012,2011,2000,R604 ,R603,R602, R601,Q203,Q202,Q201,2911D,2828A,2811D,2507H,2230B,2220B,2210B,2120B,2110B,2103B, 806230,806229,806228,806227,806226,806225,806224,806223,806222,806221,806220,80621 0,806209,806208,806207,806206,806205,806204,806203,806202,806201,806200 | | |



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Test Item(s) :

Details see page 1

SUMMARY OF TEST RESULTS

| TEST REQUESTED | CONCLUSION |
|--|-------------------|
| The mechanical hazards requirements of ASTM F963-17, "Standard consumer safety specification for toy safety". | PASS |
| The flammability requirements of 16 CFR 1500.3(c)(6)(vi), "Flammable solid" (FHSA regulations). | PASS |
| The initial total heavy metals content analysis for soluble heavy metals content in surface coating requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.1(2). | PASS |
| The initial total heavy metals content analysis for soluble heavy metals content in substrate requirements of ASTM F963-17, "Standard Consumer Safety Specification for Toy Safety," Section 4.3.5.2(2)(b). | PASS |

Note: The tested part of the sample was specified by client.
The composite testing was performed as per client's request.
The test conclusion was given based on the results of tested part.



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REMARK

1. The sample is tested for "OVER 3 YEARS OF AGE" as client's request.
2. The sample(s) was not evaluated to the Normal Use testing requirements specified in ASTM F963-17, Section 8.5. It is the responsibility of the manufacturer, vendor or distributor to conduct tests that will simulate normal use conditions. These tests shall ensure that hazards are not generated through normal wear and deterioration of the sample(s). These tests shall also simulate the normal play mode of the toy and to simulate the expected mode of use of the particular toy. The tests shall be conducted in an expected use environment. These normal use tests shall simulate the intended use of the toy based on its estimated lifetime.
3. No relevant packaging was provided with the submitted sample(s). Consequently, evaluation of the applicable labelling requirements of the ASTM F963-17, "Standard Consumer Safety Specification on Toy Safety", was not conducted.

If there are questions or concerns on this report, please contact the following persons:

General enquiry and invoicing

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**BUREAU VERITAS
SHANGHAI LIMITED NANJING BRANCH**

SOPHIA YANG
CLIENT ASSISTANT MANAGER

Laboratory Test Location :
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APPROPRIATE AGE GRADE DETERMINATION

The Appropriate Age Grade is determined with reference to the Age Determination Guidelines of the Consumer Product Safety Commission (CPSC); and the ASTM F963-17, "Standard Consumer Safety Specification on Toy Safety". Annex A1

Note : The most stringent age grade from the Labeled Age Grade and the Appropriate Age Grade will be used for testing.

Note : If the client does not specify an age grade for testing or request BVCPS to determine an appropriate age grade, the labeled age grade will be used for testing.

USE AND ABUSE TESTS

The samples were undergo the tests in accordance with section 8.6 through 8.16, whichever is applicable

| Test | Test Parameters | Standard Reference |
|-------------|------------------------|---------------------------|
| Drop | 4 x 3 ft | 1500.51(b) |
| Torque | 4 in-lbs | 1500.53(e) |
| Tension | 15 lbs | 1500.53(f) |



PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

| Section | Requirement | Result |
|---------|--|--------|
| 4.1 | Material Quality | M |
| 4.3.7 | Stuffing Materials | N/A |
| 4.5 | Sound-Producing Toys | N/A |
| 4.6 | Small Objects | N/A |
| 4.7 | Accessible Edges | M |
| 4.8 | Projections | M |
| 4.9 | Accessible Points | M |
| 4.10 | Wires and Rods | N/A |
| 4.11 | Nails and Fasteners | M |
| 4.12 | Plastic Film | N/A |
| 4.13 | Folding Mechanisms and Hinges | N/A |
| 4.14 | Cords, Straps and Elastics | 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, Clearances 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 (exclude Section 4.25.10 Battery-powered ride-on toys & Section 4.25.11 Toys that Contain Secondary Cells or Secondary Batteries) | N/A |
| 4.26 | Toys Intended to be Attached to a Crib or Playpen | N/A |
| 4.27 | Stuffed and Beanbag-Type Toys | N/A |
| 4.30 | Toy Gun Marking | N/A |
| 4.32 | Certain Toys with Nearly Spherical Ends | N/A |
| 4.34 | Small 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 |

M = Meet NM = Not Meet N/A = Not Applicable R = Refer to Comment Section

FLAMMABILITY (16 CFR SECTION 1500.3(c)(6)(vi))

| Requirement | Test Method Reference | Findings |
|---|-----------------------|-----------------|
| Burn rate no greater than 0.1 of an inch per second | 16 CFR 1500.44 | Did not ignited |



Tested component(s) breakdown list

| Sample Identity | Color | Location | Style |
|-----------------|---------------------------|----------|-------|
| A. | White coating on plastic | / | / |
| B. | Black coating on plastic | / | / |
| C. | Orange plastic | / | / |
| D. | Yellow plastic | / | / |
| E. | Red plastic | / | / |
| F. | Brown plastic | / | / |
| G. | Blue plastic | / | / |
| H. | Light brown plastic | / | / |
| I. | Green plastic | / | / |
| J. | Deep grey plastic | / | / |
| K. | Silver coating on plastic | / | / |
| L. | Pink plastic | / | / |



TOTAL HEAVY METALS CONTENT - INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS CONTENT IN SURFACE COATING (ASTM F963-17, Section 4.3.5.1(2))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|--------------------|----|------|----|----|----|----|----|-----|
| Max. Limit (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Conclusion |
|---------|----------------|------|-------|-------|-------|-------|-------|-------|------------|
| Sample | Result (mg/kg) | | | | | | | | |
| A+B+K | LT 5 | 31.8 | LT 10 | Pass |

mg/kg = milligrams per kilogram (ppm=parts per million)
 LT = Less Than

As = Arsenic, Ba = Barium, Cd = Cadmium,
 Cr = Chromium, Hg = Mercury, Pb = Lead,
 Sb = Antimony, Se = Selenium

Remark:

On an initial analysis for soluble heavy metals content, any component of greater than 80% of the set limit, the result is inconclusive for the requirement and therefore were retested with soluble heavy metals analysis of ASTM F963-17, Sections 8.3.2 to 8.3.4 as specified in Section 8.3.1.3. The result herein is for reference only (show Data), please refer to soluble heavy metals content analysis for the corresponding conclusive results.

TOTAL HEAVY METALS CONTENT – INITIAL ANALYSIS FOR SOLUBLE HEAVY METALS CONTENT IN SUBSTRATE (ASTM F963-17, Section 4.3.5.2(2)(b))

Test Method: ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

Type I: Substrate other than modeling clay

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|----------------------------|----|------|----|----|----|----|----|-----|
| Max. Limit Type I (mg/kg) | 25 | 1000 | 75 | 60 | 60 | 90 | 60 | 500 |
| Max. Limit Type II (mg/kg) | 25 | 250 | 50 | 25 | 25 | 90 | 60 | 500 |

| Analyte | As | Ba | Cd | Cr | Hg | Pb | Sb | Se | Conclusion |
|---------|----------------|-------|-------|-------|-------|-------|-------|-------|------------|
| Sample | Result (mg/kg) | | | | | | | | |
| C+D+E | LT 5 | LT 10 | Pass |
| F+G+H | LT 5 | LT 10 | Pass |
| I+J+L | LT 5 | LT 10 | Pass |

mg/kg = milligrams per kilogram (ppm=parts per million)
 LT = Less Than

As = Arsenic, Ba = Barium, Cd = Cadmium,
 Cr = Chromium, Hg = Mercury, Pb = Lead,
 Sb = Antimony, Se = Selenium

ND = None Detected

Detection limit (mg/kg): As and Cr = 7, Hg = 5, other elements = 10



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SAMPLE IMAGE



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