

Test Report

Report No.: TJD02G001422

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Applicant : NINGBO KINGSMAKER INT'L CO., LTD.

Address : RM.9-1, 9/F., XIN JIN SUI BLDG.,128 JIE FANG NORTH RD., NINGBO, CHINA

Report on the submitted sample(s) said to be:

Sample Name : TOTIKA GAME
Quantity of Sample : 2sets
Client Specified Age Grading : NOT STATED
Labeled Age Grading : AGES 8 AND UP
Age Group Applied in Testing : 3+ YEARS
Sample Received Date : Apr 22, 2014
Sample Tested Date : Apr 22, 2014 to Apr 28, 2014

Test Conducted:

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

Tested by Helen Tang

Reviewed by Hester Huang

Approved by Victor Wang



Apr 28, 2014

Victor Wang
Lab Manager

No. 1450774798

Centre Testing International (Shenzhen) Co., Ltd. Shanghai Branch No.1996, New Jinqiao Road, Pudong District, Shanghai, China



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Executive Summary:

TEST REQUEST

ASTM F963-11 Standard Consumer Safety Specification for Toy Safety

- Mechanical and Physical test
- Clause 4.2 Flammability of toys
- Clause 4.3.5 Heavy elements – Migration of certain elements

CONCLUSION

PASS

PASS

PASS

For chemical test, the tested components are identified by the applicant.

***** For Further Details, Please Refer To the Following Page(s) *****

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ASTM F963-11

▼ Mechanical and Physical test

As specified in ASTM F963-11 standard consumer safety specification for toy safety.

| <u>Clause</u> | <u>Description</u> | <u>Assessment</u> |
|---------------|--|-------------------|
| 4. | Safety Requirements | |
| 4.1 | Material Quality (Visual Examination)..... | Pass |
| 4.7 | Accessible Edges..... | Pass |
| 4.9 | Accessible Points..... | Pass |
| 5. | Safety Labeling Requirements | |
| 5.2 | Age Grading Labeling..... | Pass |
| 5.16 | Promotional Materials..... | Pass |
| 7. | Producers Markings | |
| 7.1 | Producers Markings..... | Pass |
| 8. | Test Method | |
| 8.5 | Normal Use Testing..... | Pass |
| 8.7 | Impact Test..... | Pass |
| 8.8 | Torque Test..... | Pass |
| 8.9 | Tension Test..... | Pass |

▼ Clause 4.2 Flammability of toys

As specified in ASTM F963-11 standard consumer safety specification for toy safety.

Flammability Test on Solid

| <u>Burning Rate (inch/sec)</u> | <u>Limit (inch/sec)</u> |
|--------------------------------|-------------------------|
| DNI | 0.1 |

-- DNI = Did Not Ignite

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▼ **Heavy elements test - Migration of certain elements**

As specified in ASTM F963-11 standard consumer safety specification for toy safety clause 4.3.5, acid extraction methods specified in clause 8.3 were used and toxic elements content were determined by ICP-OES.

1. Heavy elements test - Migration of certain elements in surface-coating and similar materials

| Tested Item | Result (mg/kg) | | | | MDL (mg/kg) | Limit (mg/kg) |
|-----------------------|----------------|-----|-----|-----|----------------|------------------|
| | (1) | (2) | (3) | (4) | | |
| Soluble Antimony (Sb) | ND | ND | ND | ND | 5 | 60 |
| Soluble Arsenic (As) | ND | ND | ND | ND | 2.5 | 25 |
| Soluble Barium (Ba) | 10 | 70 | 11 | 59 | 5 | 1000 |
| Soluble Cadmium (Cd) | ND | ND | ND | ND | 5 | 75 |
| Soluble Chromium (Cr) | ND | ND | ND | ND | 2.5 | 60 |
| Soluble Lead (Pb) | ND | ND | ND | ND | 5 | 90 |
| Soluble Mercury (Hg) | ND | ND | ND | ND | 2.5 | 60 |
| Soluble Selenium (Se) | ND | ND | ND | ND | 5 | 500 |

Heavy elements test - Migration of certain elements in substrate materials

N/C=Not conducted as per client's request

2. Special soluble Cadmium test on metallic small parts:

N/A = Not Applicable (Before and after use and abuse testing, there was no metallic small parts on the submitted samples, so it is not applicable to the requirement of this standard)

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Tested Component(s):

- (1) Green coating
- (2) Light red coating
- (3) Blue coating
- (4) Orange coating

Remark:

- mg/kg = milligram per kilogram = ppm
- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor.
- Filter paper was used instead of 0.45µm membrane filter in lab testing.

Note:

- Only applicable clauses were shown.

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Photo of the sample



*** End of Report ***

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Applicant : NINGBO KINGSMARKER INTL CO., LTD.

Address : RM.9-1, 9/E, XIN JIN SUI BLDG, 128 JIE FANG NORTH RD., NINGBO, CHINA

Report on the submitted sample(s) said to be:

Sample Name : CARD DECKS
Quantity of Sample : 2 sets
Client Specified Age Grading : NOT STATED
Labeled Age Grading : AGES 13 AND UP(TEEN+ADULT)
AGES 8 AND UP(LIFE SKILLS)
Age Group Applied in Testing : 3+ YEARS
Sample Received Date : Apr 22, 2014
Sample Tested Date : Apr 22, 2014 to Apr 28, 2014

Test Conducted:

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

Tested by Helen Tang

Reviewed by Hester Huang

Approved by Victor Wang

Victor Wang
Lab Manager



Apr 28, 2014

No. 1450733404

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Executive Summary:

TEST REQUEST

ASTM F963-11 Standard Consumer Safety Specification for Toy Safety

- Mechanical and Physical test
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- Clause 4.3.5 Heavy elements – Migration of certain elements

CONCLUSION

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ASTM F963-11

▼ Mechanical and Physical test

As specified in ASTM F963-11 standard consumer safety specification for toy safety.

| <u>Clause</u> | <u>Description</u> | <u>Assessment</u> |
|---------------|--|-------------------|
| 4. | Safety Requirements | |
| 4.1 | Material Quality (Visual Examination)..... | Pass |
| 4.7 | Accessible Edges..... | Pass |
| 4.9 | Accessible Points..... | Pass |
| 5. | Safety Labeling Requirements | |
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| 8.9 | Tension Test..... | Pass |

▼ Clause 4.2 Flammability of toys

As specified in ASTM F963-11 standard consumer safety specification for toy safety.

Flammability Test on Solid

| <u>Burning Rate (inch/sec)</u> | <u>Limit (inch/sec)</u> |
|--------------------------------|-------------------------|
| 0.02(SE) | 0.1 |

-- SE = Self-Extinguished.

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▼ Heavy elements test - Migration of certain elements

As specified in ASTM F963-11 standard consumer safety specification for toy safety clause 4.3.5, acid extraction methods specified in clause 8.3 were used and toxic elements content were determined by ICP-OES.

1. Heavy elements test - Migration of certain elements in surface-coating and similar materials

| Tested Item | Result (mg/kg) | MDL (mg/kg) | Limit (mg/kg) |
|-----------------------|---------------------------|----------------|------------------|
| | Multi-color coating(card) | | |
| Soluble Antimony (Sb) | ND | 5 | 60 |
| Soluble Arsenic (As) | ND | 2.5 | 25 |
| Soluble Barium (Ba) | 7 | 5 | 1000 |
| Soluble Cadmium (Cd) | ND | 5 | 75 |
| Soluble Chromium (Cr) | ND | 2.5 | 60 |
| Soluble Lead (Pb) | ND | 5 | 90 |
| Soluble Mercury (Hg) | ND | 2.5 | 60 |
| Soluble Selenium (Se) | ND | 5 | 500 |

Heavy elements test - Migration of certain elements in substrate materials

N/C=Not conducted as per client's request

2. Special soluble Cadmium test on metallic small parts:

N/A = Not Applicable (Before and after use and abuse testing, there was no metallic small parts on the submitted samples, so it is not applicable to the requirement of this standard)

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- ND = Not Detected (less than MDL)
- MDL = Method Detection Limit
- Results shown of soluble elements are of adjusted analytical results by subtracting analytical correction factor.
- Filter paper was used instead of 0.45 μ m membrane filter in lab testing.

Note:

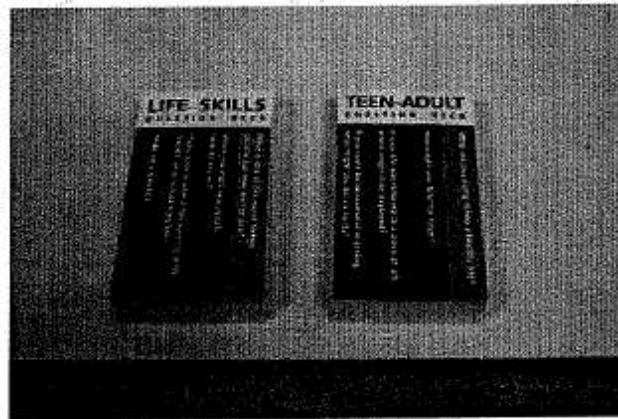
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Photo of the sample



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