

TEST REPORT

No.:ED191107063C002

Date: November 12, 2019

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Applicant : SHENZHEN ASG TRADE CO., LTD.
Address : 921 SONGHUA BUILDING , MINZHI STREET ,LONGHUA DISTRICT,
SHENZHEN CITY ,GUANGDONG PROVINCE

Sample Name : Beech Wood 60MM Wood Ring Toy
Style/Item No. : Beech Wood Ring 60MM , Beech Wood Ring 80MM ,
Beech Wood Ring 70MM , Beech Wood Ring 55MM ,
Beech Wood Ring 50MM , Beech Wood Ring 40MM ,
Beech Wood Round Beads 30MM, Beech Wood Round Beads20MM,
Beech Wood Round Beads 15MM, Beech Wood Round Beads12MM

Labeled Age Grading : Not Provided
Requested Age Grading : 6-12m
Age Group Applied in Testing : Over 6 months
Sample Received Date : November 07, 2019
Testing Completed Date : November 12, 2019

Test Requested : As requested by the client, according to the following standards to perform the related testings.

- 1) EN71-1: 2014+A1: 2018 – Physical and Mechanical Tests
- 2) EN71-2: 2011+A1: 2014 – Flammability Test
- 3) 2009/48/EC – Toy Safety Directives Label Assessment
- 4) EN71-3: 2019 – Migration of certain elements

Test Results : Please refer to next page (s).

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Executive Summary:

| STANDARD | CONCLUSION |
|--|------------|
| 1) EN71-1: 2014+A1: 2018 – Physical and Mechanical Tests | PASS |
| 2) EN71-2: 2011+A1: 2014 – Flammability Test | PASS |
| 3) 2009/48/EC – Toy Safety Directives Label Assessment | SEE RESULT |
| 4) EN71-3: 2019 – Migration of certain elements | PASS |

Signed for and on behalf of
EMTEK (Dongguan) Co., Ltd.

Prepared by: Cherry
Cherry Zhu
Report Engineer

Reviewed by: Carrie
Carrie Zhang
Supervisor

Approved by: Lisa
Lisa Li
Manager



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Test Results:

1) Mechanical and Physical Tests:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 1: 2014+A1: 2018

| <u>Clause</u> | <u>Description</u> | <u>Result</u> |
|---------------|--|---------------|
| 4 | General requirements | |
| 4.1 | Material cleanliness (by visual assessment)..... | Pass |
| 4.2 | Assembly..... | N/A |
| 4.3 | Flexible plastic sheeting..... | N/A |
| 4.4 | Toy Bags | N/A |
| 4.5 | Glass | N/A |
| 4.6 | Expanding Materials | N/A |
| 4.7 | Edges | Pass |
| 4.8 | Points and Metallic Wires | Pass |
| 4.9 | Protruding parts | N/A |
| 4.10 | Parts moving against each other: | |
| | 4.10.1 Folding and sliding mechanisms | N/A |
| | 4.10.2 Driving mechanisms | N/A |
| | 4.10.3 Hinges..... | N/A |
| | 4.10.4 Springs | N/A |
| 4.11 | Mouth-actuated toys and other toys intended to be put in the mouth..... | N/A |
| 4.12 | Balloons | N/A |
| 4.13 | Cords of toy kites and other flying toys | N/A |
| 4.14 | Enclosures: | |
| | 4.14.1 Toys which a child can enter | N/A |
| | 4.14.2 Masks and helmets | N/A |
| 4.15 | Toys intended to bear the mass of a child: | |
| | 4.15.1 Toys propelled by a child or by other means | N/A |
| | 4.15.2 Toy bicycles..... | N/A |
| | 4.15.3 Rocking horses and similar toys | N/A |
| | 4.15.4 Toys not propelled by a child | N/A |
| | 4.15.5 Toy scooters..... | N/A |
| 4.16 | Heavy immobile toys | N/A |
| 4.17 | Projectile toys..... | N/A |
| 4.18 | Aquatic toys and inflatable toys..... | N/A |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | N/A |
| 4.20 | Acoustics | N/A |
| 4.21 | Toys containing a non-electrical heat source | N/A |

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| <u>Clause</u> | <u>Description</u> | <u>Result</u> |
|---------------|---|---------------|
| 4.22 | Small balls | <u>N/A</u> |
| 4.23 | Magnets..... | <u>N/A</u> |
| 4.24 | Yo-yo balls..... | <u>N/A</u> |
| 4.25 | Toys attached to food..... | <u>N/A</u> |
| 4.26 | Toy Disguise Costumes..... | <u>N/A</u> |
| 4.27 | Flying toys..... | <u>N/A</u> |
| 5 | Toys intended for children under 36 months | |
| 5.1 | General requirements..... | <u>Pass</u> |
| 5.1a | Small part requirement on toys & removable components (Test method 8.2) | <u>Pass</u> |
| 5.1b | Torque test (Test method 8.3) | <u>Pass</u> |
| | Tension test (Test method 8.4) | <u>Pass</u> |
| | Drop test (Test method 8.5) | <u>Pass</u> |
| | Impact test (Test method 8.7) | <u>Pass</u> |
| | Sharp edge (Test method 8.11) | <u>Pass</u> |
| | Sharp point (Test method 8.12) | <u>Pass</u> |
| 5.1f | The casing of toys intended for children too young to sit up unaided | <u>Pass</u> |
| 5.2 | Soft-filled toys and soft-filled parts of a toy | <u>N/A</u> |
| 5.3 | Plastic sheeting | <u>N/A</u> |
| 5.4 | Cords, chains and electrical cables in toys | <u>N/A</u> |
| 5.5 | Liquid filled toys | <u>N/A</u> |
| 5.6 | Speed limitation of electrically-driven ride-on toys | <u>N/A</u> |
| 5.7 | Glass and porcelain | <u>N/A</u> |
| 5.8 | Shape and size of certain toys | <u>Pass</u> |
| 5.9 | Toys comprising monofilament fibres | <u>N/A</u> |
| 5.10 | Small balls..... | <u>N/A</u> |
| 5.11 | Play figures..... | <u>N/A</u> |
| 5.12 | Hemispheric shaped toys..... | <u>N/A</u> |
| 5.13 | Suction cups..... | <u>N/A</u> |
| 5.14 | Straps intended to be worn fully or partially around the neck..... | <u>N/A</u> |
| 5.15 | Sledges with cords for pulling..... | <u>N/A</u> |
| 6 | Packaging | <u>N/A</u> |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | <u>N/A</u> |
| 7.2 | Toys not intended for children under 36 months | <u>N/A</u> |
| 7.3 | Latex Balloons | <u>N/A</u> |
| 7.4 | Aquatic toys | <u>N/A</u> |
| 7.5 | Functional Toys | <u>N/A</u> |
| 7.6 | Hazardous sharp functional edges and points | <u>N/A</u> |

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| <u>Clause</u> | <u>Description</u> | <u>Result</u> |
|---------------|--|---------------|
| 7.7 | Projectile toys..... | N/A |
| 7.8 | Imitation protective masks and helmets | N/A |
| 7.9 | Toy kites | N/A |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys | N/A |
| 7.11 | Toys otherwise intended to be strung across a cradle, cot, or perambulator | N/A |
| 7.12 | Liquid-filled teethingers | N/A |
| 7.13 | Percussion caps specifically designed for use in toys | N/A |
| 7.14 | Acoustics | N/A |
| 7.15 | Toy bicycles | N/A |
| 7.16 | Toys intended to bear the mass of a child | N/A |
| 7.17 | Toys comprising monofilament fibres | N/A |
| 7.18 | Toy scooters..... | N/A |
| 7.19 | Rocking horses and similar toys..... | N/A |
| 7.20 | Magnetic/electrical experimental sets..... | N/A |
| 7.21 | Toys with electrical cables exceeding 300mm in length..... | N/A |
| 7.22 | Toys with cords or chains intended for children of 18 months and over but under 36 months..... | N/A |
| 7.23 | Toys intended to be attached to a cradle, cot or perambulator..... | N/A |
| 7.24 | Sledges with cords for pulling..... | N/A |
| 7.25 | Flying toys..... | N/A |
| 7.26 | Improvised projectiles..... | N/A |

N/A = Not Applicable

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Test Results:

2) Flammability Test:

AS SPECIFIED IN EUROPEAN STANDARD ON SAFETY OF TOYS EN71 PART 2:2011+A1: 2014

| <u>Clause</u> | <u>Description</u> | <u>Result</u> |
|---------------|--|---------------|
| 4 | Requirements | |
| 4.1 | General requirements | <u>Pass</u> |
| 4.2 | Toys to be worn on the head..... | <u>N/A</u> |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play..... | <u>N/A</u> |
| 4.4 | Toys intended to be entered by a child..... | <u>N/A</u> |
| 4.5 | Soft-filled toys..... | <u>N/A</u> |

N/A = Not Applicable

3) 2009/48/EC – Toy Safety Directives Label Assessment

Summary table:

| | Observation Result | Location |
|-------------------------------|--------------------|----------|
| Cleaning instruction | Not applicable | -- |
| CE- marking | Absent | -- |
| Importer's name & address | Absent | -- |
| Manufacturer's name & address | Absent | -- |
| Product identification code | Absent | -- |

Note:

It is drawn to your attention that the name and address of manufacturer and importer in EEC country, toy's type, batch, serial, model number or other element allowing the identification and the advice statement for keeping relevant information together with CE-marking should appear as specified Directive 2009/48/EC.

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Test Results:

- 4) Test Method: Samples were extracted in diluted hydrochloric acid in accordance with EN71-3: 2019, the analysis was performed by ICP-MS.

| Test Item | Test Result (mg/kg) | Reporting Limit (mg/kg) |
|---------------------------------|--------------------------|-------------------------|
| | Beech wood timber (ring) | |
| Aluminum (Al) | ND | 2 |
| Antimony (Sb) | ND | 2 |
| Arsenic (As) | ND | 2 |
| Barium (Ba) | 16 | 2 |
| Boron (B) | ND | 2 |
| Cadmium (Cd) | ND | 2 |
| Chromium (Cr ³⁺) #△ | ND | 0.2 |
| Chromium (Cr ⁶⁺) #△ | ND | 0.02 |
| Cobalt (Co) | ND | 2 |
| Copper (Cu) | ND | 2 |
| Lead (Pb) | ND | 2 |
| Manganese (Mn) | 29 | 2 |
| Mercury (Hg) | ND | 2 |
| Nickel (Ni) | ND | 2 |
| Selenium (Se) | ND | 2 |
| Strontium (Sr) | ND | 2 |
| Tin (Sn) | ND | 2 |
| Organic Tin* | ND | 2 |
| Zinc (Zn) | 3 | 2 |

Note: 1. mg/kg = part per million = ppm ND = Not Detected (less than Reporting limit)

- #Soluble Chromium (III) and Soluble Chromium (VI) were reported as Soluble Total Chromium, further confirmation test will be required when Total Chromium is detected.
- *Soluble Organic Tin was reported as Soluble Tin, further confirmation test will be required when Soluble Tin is detected.
- All the materials tested belong to scraped-off toy material by identifying.
- △ The test about this project was completed in EMTEK (Shenzhen) Co., Ltd. by subcontracting.

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Requirement of migration of certain elements content according to EN71-3: 2019:

| Parameter | Dry, brittle, powder-like or pliable toy material (mg/kg) | Liquid or sticky toy material (mg/kg) | Scraped-off toy material (mg/kg) |
|-----------------|---|---------------------------------------|----------------------------------|
| Aluminum | 5625 | 1406 | 70000 |
| Antimony | 45 | 11.3 | 560 |
| Arsenic | 3.8 | 0.9 | 47 |
| Barium | 1500 | 375 | 18750 |
| Boron | 1200 | 300 | 15000 |
| Cadmium | 1.3 | 0.3 | 17 |
| Chromium (III) | 37.5 | 9.4 | 460 |
| Chromium Cr(VI) | 0.02 | 0.005 | 0.2 / 0.053 ^a |
| Cobalt | 10.5 | 2.6 | 130 |
| Copper | 622.5 | 156 | 7700 |
| Lead | 2 | 0.5 | 23 |
| Manganese | 1200 | 300 | 15000 |
| Mercury | 7.5 | 1.9 | 94 |
| Nickel | 75 | 18.8 | 930 |
| Selenium | 37.5 | 9.4 | 460 |
| Strontium | 4500 | 1125 | 56000 |
| Tin | 15000 | 3750 | 180000 |
| Organic tin | 0.9 | 0.2 | 12 |
| Zinc | 3750 | 938 | 46000 |

Remark: a = The migration limit for Chromium (VI) for Category III toy material (scraped-off toy material) has been amended by Commission Directive (EU) 2018/725 [7]. The new limit value (0,053 mg/kg) applies from 2019-11-18. Before this date the limit value 0,2 mg/kg applies.

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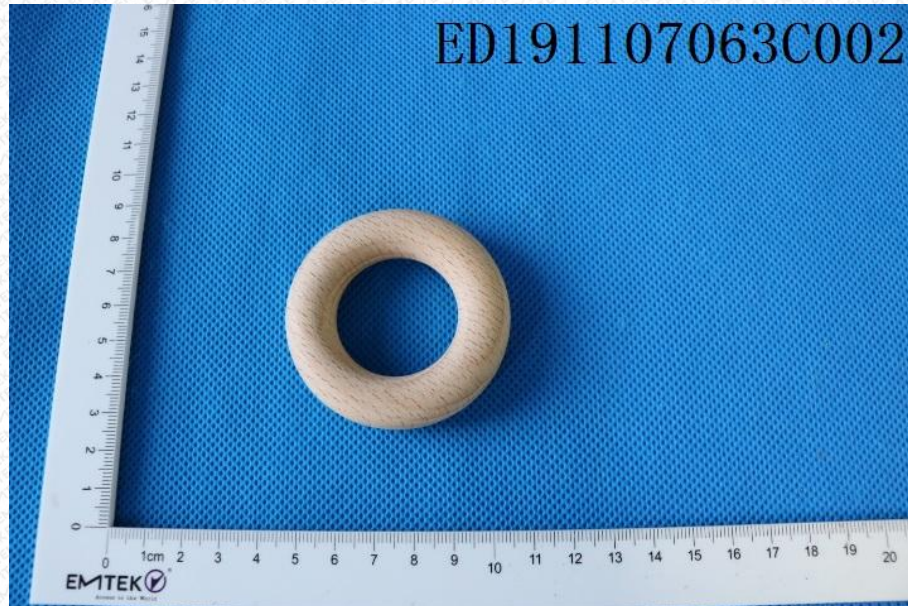
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Photo Appendix



* * * * * The End * * * * *

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