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检测
TESTING
CNAS L11364

TEST REPORT

Report No.: STSGZ2406213039E

Date: 10-Jul-2024

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Applicant : CARPENTERS MANUFACTORY LIMITED

Address: HUANG JIN JI INDUSTRIAL ZONE, SHANG JIE VILLAGE, QI SHI TOWN, DONG GUAN CITY, GUANG DONG PROVINCE, P.R.CHINA

The following sample(s) and sample information was/were submitted and identified by client as:

Sample Name: Wooden Sensory Sand Blocks (18 Pieces)、Wooden Sensory Liquid Blocks (18 Pieces)、Wooden Sensory Liquid Motion Bubbler Blocks (10 Pieces)、Wooden Sensory Liquid Motion Bubbler Blocks (4 Pieces)

Model/Style/Item #: ME31273、ME31129、ME31280、ME32133

Labeled Age Grading: 3Y+

Requested Age Grading: 3Y+

Tested Age Grading: 3Y+

Receiving Date: 21-Jun-2024

Test Period: From 21-Jun-2024 to 9-Jul-2024

Add Information: -

*****Please refer to the following page for detailed results*****

Signed for and on behalf of STS

Mark Mai
(Technical Director)



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Guangzhou Depuhua Test Services Co. Ltd.

A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
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Test Summary:

| # | Test Item(s) | Reference Standard/Method | Result |
|----|---|--|------------|
| 1 | Safety of Toys: Mechanical and Physical Properties | EN 71-1:2014+A1:2018 | PASS |
| 2 | Safety of Toys: Flammability | EN 71-2:2020 | PASS |
| 3 | Safety of Toys: Migration of Certain Elements | EN 71-3:2019+A1:2021 | PASS |
| 4 | Labeling requirement (Washing/Cleaning Label, CE mark, importer / manufacturer mark (name, address), product identification) according to Informative Annex A.26 and A.33 of the European standard on Safety of toys EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys | EN 71-1:2014+A1:2018 and the Directive 2009/48/EC-Safety of toys | SEE RESULT |
| 5 | Phthalate content (DIBP、DEHP、DBP、BBP、DINP、DIDP、DNOP) -Item 51&52 of Annex XVII of REACH Regulation (EC) 1907/2006. | EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS | PASS |
| 6 | Cadmium content -Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 | IEC 62321-5:2013, determined by AAS | PASS |
| 7 | Mechanical and Physical Propertie | ASTM F963-23 | PASS |
| 8 | Flammability of Solids | 16 CFR 1500.44 / ASTM F963-23, A5 | PASS |
| 9 | Soluble Migrated Elements ASTM F963-23 | ASTM F963-23, determined by ICP-OES | PASS |
| 10 | Lead Content (Pb) ASTM F963-23 | CPSC-CH-E1002-08.3 (Non-metal Substrate),CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS | PASS |
| 11 | Lead Content (Pb) CPSIA H.R. 4040 Sec. 101 | CPSC-CH-E1002-08.3 (Non-metal Substrate),CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS | PASS |
| 12 | Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP) - CPSIA H.R. 4040 Sec. 108 | CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS | PASS |
| 13 | Mechanical and Physical Properties (Except Clause 3) | SOR/2011-17 | PASS |
| 14 | Flammability | SOR/2011-17 | PASS |
| 15 | Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17 | Canada Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B,Test Methods Section, Method C02.2:2017&Method C-07:2019 | PASS |
| 16 | Soluble Migrated Elements SOR/2011-17 | Canada Product safety reference manual Book 5- Laboratory policies and procedures Part B: Test Methods Section, Method C-03: 2018 | PASS |
| 17 | Phthalates (DBP, BBP, DEHP, DNOP, DINP, DIDP) SOR/2016-188 | Canada health - Product Safety Reference Manual, Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section. Method C-34:2018, Solvent extract and determined by GC/MS | PASS |

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| | | | |
|----|--|---|------|
| 18 | Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys | AS/NZS ISO 8124.1:2023 | PASS |
| 19 | Flammability Properties - Australian/New Zealand Standard on Safety of Toys | AS/NZS ISO 8124.2:2023 | PASS |
| 20 | Soluble elements Content- Australian/New Zealand Standard on Safety of Toys | AS/NZS ISO 8124.3:2021+A1: 2023 | PASS |
| 21 | Phthalates content- As Client's Requirement | CPSC-CH-C1001-09.4, determined by GC-MS | PASS |
| 22 | Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP) - ASTM F963-23 | CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS | PASS |
| 23 | Tracking labels for children's products | CPSIA H.R. 4040 Sec. 103 | PASS |
| 24 | Lead Content (Pb)-16 CFR 1303 | CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS | PASS |

Result:

1. Safety of Toys: Mechanical and Physical Properties – EN 71-1:2014+A1:2018

PASS

| Clause | Parameter | Results |
|--------|--|---------|
| 4 | General requirements | |
| 4.1 | Material cleanliness | Pass |
| 4.2 | Assembly | NA |
| 4.3 | Flexible plastic sheeting | NA |
| 4.4 | Toy bags | NA |
| 4.5 | Glass | NA |
| 4.6 | Expanding materials | NA |
| 4.7 | Edges | Pass |
| 4.8 | Points and metallic wires | Pass |
| 4.9 | Protruding parts | NA |
| 4.10 | Parts moving against each other | NA |
| 4.11 | Mouth-actuated toys and other toys intended to be put in the mouth | NA |

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| | | |
|------|--|----|
| 4.12 | Balloons | NA |
| 4.13 | Cords of toy kites and other flying toys | NA |
| 4.14 | Enclosures | NA |
| 4.15 | Toys intended to bear the mass of a child | NA |
| 4.16 | Heavy immobile toys | NA |
| 4.17 | Projectile toys | NA |
| 4.18 | Aquatic toys and inflatable toys | NA |
| 4.19 | Percussion caps specifically designed for use in toys and toys using percussion caps | NA |
| 4.20 | Acoustics | NA |
| 4.21 | Toys containing a non-electrical heat source* | NA |
| 4.22 | Small balls | NA |
| 4.23 | Magnets | NA |
| 4.24 | Yo-yo balls | NA |
| 4.25 | Toys attached to food | NA |
| 4.26 | Toy disguise costumes | NA |
| 4.27 | Flying toys | NA |
| 5 | Toys intended for children under 36 months | |
| 5.1 | General requirement | NA |
| 5.2 | Soft-filled toys and soft-filled parts of a toy | NA |
| 5.3 | Plastic sheeting | NA |
| 5.4 | Cords, chains and electrical cables in toys | NA |
| 5.5 | Liquid-filled toys | NA |
| 5.6 | Speed limitation of electrically-driven ride-on toys | NA |
| 5.7 | Glass and porcelain | NA |
| 5.8 | Shape and size of certain toys | NA |

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| | | |
|------|--|------|
| 5.9 | Toys comprising monofilament fibres | NA |
| 5.10 | Small balls | NA |
| 5.11 | Play figures | NA |
| 5.12 | Hemispheric-shaped toys | NA |
| 5.13 | Suction cups | NA |
| 5.14 | Straps intended to be worn fully or partially around the neck | NA |
| 5.15 | Sledges with cords for pulling | NA |
| 6 | Packaging | Pass |
| 7 | Warnings, markings and instructions for use | |
| 7.1 | General | Pass |
| 7.2 | Toys not intended for children under 36 months | Pass |
| 7.3 | Latex balloons | NA |
| 7.4 | Aquatic toys | NA |
| 7.5 | Functional toys | NA |
| 7.6 | Hazardous sharp functional edges and points | NA |
| 7.7 | Projectile toys | NA |
| 7.8 | Imitation protective masks and helmets | NA |
| 7.9 | Toy kites | NA |
| 7.10 | Roller skates, inline skates, skateboards and certain other ride-on toys | NA |
| 7.11 | Toys otherwise intended to be strung across a cradle, cot, or perambulator | NA |
| 7.12 | Liquid-filled teethingers | NA |
| 7.13 | Percussion caps specifically designed for use in toys | NA |
| 7.14 | Acoustics | NA |
| 7.15 | Toy bicycles | NA |
| 7.16 | Toys intended to bear the mass of a child | NA |

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| | | |
|------|---|----|
| 7.17 | Toys comprising monofilament fibres | NA |
| 7.18 | Toy scooters | NA |
| 7.19 | Rocking horses and similar toys | NA |
| 7.20 | Magnetic / electrical experimental sets | NA |
| 7.21 | Toys with electrical cables exceeding 300 mm in length | NA |
| 7.22 | Toys with cords or chains intended for children of 18 months and over but under 36 months | NA |
| 7.23 | Toys intended to be attached to a cradle, cot or perambulator | NA |
| 7.24 | Sledges with cords for pulling | NA |
| 7.25 | Flying toys | NA |
| 7.26 | Improvised projectiles | NA |

Remark(s): (a) NA = Not Applicable
(b) *The item is not included in CNAS accreditation scope

2. Safety of Toys: Flammability – EN 71-2:2020

PASS

| Clause | Parameter | Results |
|--------|---|---------|
| 4.1 | General requirements | Pass |
| 4.2 | 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(s): (a)NA = Not Applicable
(b)Except for 4.1 Flammable, highly flammable and extremely flammable gases, liquids and gelatinous bodies materials.

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3. Safety of Toys: Migration of Certain Elements

EN 71-3:2019+A1:2021

General elements determined by ICP-MS

Chromium(VI) determined by IC-ICP-MS

Organic tin determined by GC-MS

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|----------|---------------------|----------------|--------|--------|------------------|---------------|
| | | Category III*1 | | | | |
| | | 1 | 2 | 3 | | |
| 1 | Aluminum (Al) | N.D. | N.D. | N.D. | 70000 | 10 |
| 2 | Antimony (Sb) | N.D. | N.D. | N.D. | 560 | 10 |
| 3 | Arsenic(As) | N.D. | N.D. | N.D. | 47 | 5 |
| 4 | Barium(Ba) | N.D. | N.D. | N.D. | 18750 | 10 |
| 5 | Boron (B) | N.D. | N.D. | N.D. | 15000 | 10 |
| 6 | Cadmium (Cd) | N.D. | N.D. | N.D. | 17 | 5 |
| 7 | Chromium (III) (Cr) | N.D. | N.D. | N.D. | 460 | 10 |
| 8 | Chromium (VI) (Cr) | N.D. | N.D. | N.D. | 0.053 | 0.053 |
| 9 | Cobalt (Co) | N.D. | N.D. | N.D. | 130 | 10 |
| 10 | Copper (Cu) | N.D. | N.D. | N.D. | 7700 | 10 |
| 11 | Lead(Pb) | N.D. | N.D. | N.D. | 23 | 5 |
| 12 | Manganese (Mn) | N.D. | N.D. | 30 | 15000 | 10 |
| 13 | Mercury (Hg) | N.D. | N.D. | N.D. | 94 | 10 |
| 14 | Nickel (Ni) | N.D. | N.D. | N.D. | 930 | 10 |
| 15 | Selenium(Se) | N.D. | N.D. | N.D. | 460 | 10 |
| 16 | Strontium (Sr) | N.D. | N.D. | N.D. | 56000 | 10 |
| 17 | Tin (Sn) | N.D. | N.D. | N.D. | 180000 | 4.9 |
| 18 | Organic tin (Sn) | N.D.*2 | N.D.*2 | N.D.*2 | 12*2 | 0.2*2 |
| 19 | Zinc (Zn) | N.D. | N.D. | N.D. | 46000 | 10 |
| | Conclusion | PASS | PASS | PASS | - | - |

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Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
*1: Categories of various materials:
Category I: Dry, brittle, powder like or pliable material
Category II: Liquid or sticky material
Category III: Scraped-off material
*2: Expressed as soluble Tributyltin.

4. Safety of Toys: Labeling requirement

EN 71- 1:2014+A1:2018 AND THE DIRECTIVE 2009/48/EC

Summary table:

| | Observation Result | Location |
|-------------------------------|--------------------|-----------|
| Washing/Cleaning instruction | Not applicable | -- |
| CE mark | Present | Packaging |
| Importer's Name & Address | Present | Packaging |
| Manufacturer's Name & Address | Present | Packaging |
| Product ID | Present | Packaging |

Remark(s): 1. According to Directive 2009/48/EC, a toy intended for use by children under 36 months must be designed and manufactured in such a way that it can be cleaned. A textile toy must, to this end, be washable, except if it contains a mechanism that may be damaged if soaked. The manufacturer should, if applicable, provide instructions on how the toy has to be cleaned. According to the GUIDANCE DOCUMENT ON THE APPLICATION OF DIRECTIVE 2009/48/EC ON THE SAFETY OF TOYS, manufacturer shall not label "surface washing" on textile toys which, under the TSD, need to be soaked washable."

2. CE marking should be visible from outside the packaging and its height must be at least 5mm.

3. Manufacturer's and Importer's name, registered trade name or registered trade mark and the address at which the manufacturer can be contacted must be indicated on the toy or, where that is not possible, on its packaging or in a document accompanying the toy.

4. Manufacturers must ensure that their toys bear a type, batch, serial or model number or other element allowing their identification, or where the size or nature of the toy does not allow it, that the required information is provided on the packaging or in a document accompanying the toy.

5. The label assessment was based on the submitted samples and the information provided by the applicant. There was no verification on the validity of such information.

6. This item is not included in CNAS Accreditation scope.

5. Phthalate content (DIBP, DEHP, DBP, BBP, DINP, DIDP, DNOP) - Item 51 & 52 of Annex XVII of REACH Regulation (EC) 1907/2006

EN 14372:2004 & IEC 62321-8:2017, determined by GC-MS

| Compound | | | Material | | | Limit (%) | RL (%) |
|----------|-----|---------------------------------------|----------|------|------|-----------|--------|
| | | | 1 | 2 | 4 | | |
| 1 | DBP | Dibutyl Phthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | - | 0.005 |
| 2 | BBP | Benzylbutyl Phthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | - | 0.005 |

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|---|--------------------|--|------|------|------|-----|-------|
| 3 | DEHP | Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | - | 0.005 |
| 4 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | N.D. | - | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate CAS# 117-84-0 | N.D. | N.D. | N.D. | - | 0.005 |
| 6 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0 | N.D. | N.D. | N.D. | - | 0.005 |
| 7 | DIDP | Diisodecyl phthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | - | 0.005 |
| 8 | Sum of 1, 2, 3 & 4 | | N.D. | N.D. | N.D. | 0.1 | - |
| 9 | Sum of 5, 6 & 7 | | N.D. | N.D. | N.D. | 0.1 | - |
| | Conclusion | | PASS | PASS | PASS | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

6. Cadmium content - Item 23 of Annex XVII of REACH Regulation (EC) 1907/2006 IEC 62321-5:2013, determined by AAS

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|-------------------------------|----------|------------------|---------------|
| | | 1 | | |
| 1 | Cadmium (Cd) CAS#7440-43-9 | N.D. | 1000 | 10 |
| | Conclusion | PASS | - | - |

| Compound | | Material | | Limit (mg/kg) | RL (mg/kg) |
|-------------------|-------------------------------|-------------|-------------|------------------|---------------|
| | | 2 | 4 | | |
| 1 | Cadmium (Cd) CAS#7440-43-9 | N.D. | N.D. | 100 | 10 |
| Conclusion | | PASS | PASS | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

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7. Mechanical and Physical Properties – ASTM F963-23

PASS

| Clause | Parameter | Results |
|--------|---|---------|
| 4 | Safety Requirements | |
| 4.1 | Material Quality | Pass |
| 4.4 | Electrical / Thermal Energy* | NA |
| 4.5 | Sound-Producing Toys | NA |
| 4.6 | Small Objects | NA |
| 4.7 | Accessible Edges | Pass |
| 4.8 | Projections | NA |
| 4.9 | Accessible Points | Pass |
| 4.10 | Wires or Rods | NA |
| 4.11 | Nails and Fasteners | NA |
| 4.12 | Plastic Film | Pass |
| 4.13 | Folding Mechanisms and Hinges | NA |
| 4.14 | Cords, Straps, and Elastics | NA |
| 4.15 | Stability and Over-Load Requirements | NA |
| 4.16 | Confined Spaces | NA |
| 4.17 | Wheels, Tires, and Axles | NA |
| 4.18 | Holes, Clearance, and Accessibility of Mechanisms | NA |
| 4.19 | Simulated Protective Devices | NA |
| 4.20 | Pacifiers | NA |
| 4.21 | Projectile Toys | NA |
| 4.22 | Teethers and Teething Toys | NA |
| 4.23 | Rattles | NA |
| 4.24 | Squeeze Toys | NA |

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| 4.25 | Battery-Operated Toys* | NA |
| 4.26 | Toys Intended to be Attached to a Crib or Playpen | NA |
| 4.27 | Stuffed and Beanbag-Type Toys | NA |
| 4.28 | Stroller and Carriage Toys | NA |
| 4.29 | Art Materials | NA |
| 4.30 | Toy Gun Marking | NA |
| 4.31 | Balloons | NA |
| 4.32 | Certain Toys with Nearly Spherical Ends | NA |
| 4.33 | Marbles | NA |
| 4.34 | Balls | NA |
| 4.35 | Pompoms | NA |
| 4.36 | Hemispheric-Shaped Objects | NA |
| 4.37 | Yo Yo Elastic Tether Toys* | NA |
| 4.38 | Magnets | NA |
| 4.39 | Jaw Entrapments in Handles and Steering Wheels | NA |
| 4.40 | Expanding Materials* | NA |
| 4.41 | Toy Chests | NA |
| 5 | Labeling Requirements | |
| 5.1 | Federal Government Requirements | Pass |
| 5.2 | Age Grading Labeling | Pass |
| 5.3 | Safety Labeling Requirements | NA |
| 5.4 | Aquatic Toys | NA |
| 5.5 | Crib and Playpen Toys | NA |
| 5.6 | Mobiles | NA |
| 5.7 | Stroller and Carriage Toys | NA |

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699

e-mail: stsgz@stsapp.com

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| | | |
|------|---|------|
| 5.8 | Toys Intended to be Assembled by an Adult | NA |
| 5.9 | Simulated Protective Devices | NA |
| 5.10 | Toys with Functional Sharp Edges or Points | NA |
| 5.11 | Small Objects, Small Balls, Marbles, and Balloons | NA |
| 5.12 | Toy Caps | NA |
| 5.13 | Art Materials | NA |
| 5.14 | Electric Toys | NA |
| 5.15 | Promotional Materials | Pass |
| 5.16 | Magnets | NA |
| 6 | Instructional Literature | |
| 6.1 | Definition and Description | Pass |
| 6.2 | Crib and Playpen Toys | NA |
| 6.3 | Mobiles | NA |
| 6.4 | Toys Intended to be Assembled by and Adult | NA |
| 6.5 | Battery-Operated Toys | NA |
| 6.7 | Toys in Contact with Food | NA |
| 6.8 | Toy Chests | NA |
| 7 | Producer's Markings | Pass |
| 8 | Test Methods | |
| 8.5 | Normal Use Testing | Pass |
| 8.6 | Abuse Testing | Pass |
| 8.7 | Impact Tests | Pass |
| 8.8 | Torque Tests for Removal of Components | Pass |
| 8.9 | Tension Tests for Removal of Components | Pass |
| 8.10 | Compression Tests | Pass |

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Remark(s): (a) NA = Not Applicable
(b) *The item is not included in CNAS Accreditation scope.
(c) The results of Tracking label shall refer to the 23 test item.

8. Flammability of Solids – 16 CFR 1500.44 / ASTM F963-23, A5

PASS

| Clause | Parameter | Results |
|--------|--------------|---------|
| 4.2 | Flammability | Pass |

9. Soluble Migrated Elements ASTM F963-23, determined by ICP-OES

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|------------|---------------|----------|------|------|------------------|---------------|
| | | 1 | 2 | 3 | | |
| 1 | Antimony (Sb) | N.D. | N.D. | N.D. | 60 | 5 |
| 2 | Arsenic (As) | N.D. | N.D. | N.D. | 25 | 2 |
| 3 | Barium (Ba) | N.D. | N.D. | N.D. | 1000 | 5 |
| 4 | Cadmium (Cd) | N.D. | N.D. | N.D. | 75 | 5 |
| 5 | Chromium (Cr) | N.D. | N.D. | N.D. | 60 | 5 |
| 6 | Lead (Pb) | N.D. | N.D. | N.D. | 90 | 5 |
| 7 | Mercury (Hg) | N.D. | N.D. | N.D. | 60 | 5 |
| 8 | Selenium (Se) | N.D. | N.D. | N.D. | 500 | 5 |
| Conclusion | | PASS | PASS | PASS | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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10. Lead Content (Pb) – ASTM F963-23

CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|------------|----------|------------------|---------------|
| | | 1 | | |
| 1 | Lead (Pb) | N.D. | 90 | 10 |
| | Conclusion | PASS | - | - |

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|------------|----------|------------------|---------------|
| | | 2 | | |
| 1 | Lead (Pb) | N.D. | 100 | 10 |
| | Conclusion | PASS | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

11. Lead Content (Pb) – CPSIA H.R. 4040 Sec. 101

CPSC-CH-E1002-08.3 (Non-metal Substrate), CPSC-CH-E1003-09.1 (Surface Coating), determined by AAS

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|------------|----------|------------------|---------------|
| | | 1 | | |
| 1 | Lead (Pb) | N.D. | 90 | 10 |
| | Conclusion | PASS | - | - |

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|------------|----------|------------------|---------------|
| | | 2 | | |
| 1 | Lead (Pb) | N.D. | 100 | 10 |
| | Conclusion | PASS | - | - |

Remark(s): (a) mg/kg: milligram per kilogram
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)

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12. Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP) - CPSIA H.R. 4040 Sec. 108 CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

| Compound | | | Material | | Limit (%) | RL (%) |
|------------|-------|--|----------|------|-----------|--------|
| | | | 1 | 2 | | |
| 1 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | 0.1 | 0.005 |
| 2 | DBP | Dibutylphthalate CAS# 84-74-2 | N.D. | N.D. | 0.1 | 0.005 |
| 3 | DPENP | Di-n-pentyl phthalate CAS# 131-18-0 | N.D. | N.D. | 0.1 | 0.005 |
| 4 | DHEXP | Di-n-hexyl phthalate CAS# 84-75-3 | N.D. | N.D. | 0.1 | 0.005 |
| 5 | BBP | Benzylbutylphthalate CAS# 85-68-7 | N.D. | N.D. | 0.1 | 0.005 |
| 6 | DEHP | Diethylhexylphthalate CAS# 117-81-7 | N.D. | N.D. | 0.1 | 0.005 |
| 7 | DCHP | Dicycphexyl Phthalate CAS# 84-61-7 | N.D. | N.D. | 0.1 | 0.005 |
| 8 | DINP | Diisononylphthalate CAS# 28553-12-0 | N.D. | N.D. | 0.1 | 0.005 |
| Conclusion | | | PASS | PASS | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

13. Mechanical and Physical Properties – SOR/2011-17

PASS

| Clause | Parameter | Results |
|--------|--------------------|---------|
| 3 | Official languages | NR |
| 4 | Flexible film bags | NA |
| 7 | Small parts | NA |
| 8 | Metal edges | NA |
| 9 | Wire frames | NA |
| 10 | Plastic edges | Pass |
| 11 | Wood | Pass |
| 12 | Glass | NA |

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| | | |
|----|--|----|
| 13 | Fasteners | NA |
| 14 | Safety stops or locking devices | NA |
| 15 | Spring-wound driving mechanisms | NA |
| 16 | Projectile components | NA |
| 17 | Enclosures | NA |
| 18 | Stability | NA |
| 19 | Decibel limit | NA |
| 28 | Dolls, plush toys and soft toys – Fastenings | NA |
| 29 | Dolls, plush toys and soft toys – Stuffing | NA |
| 30 | Dolls, plush toys and soft toys – Small parts | NA |
| 31 | Dolls, plush toys and soft toys – Eyes and noses | NA |
| 35 | Plant seeds – Noise | NA |
| 36 | Plant seeds – stuffing material | NA |
| 37 | Pull and push toys | NA |
| 38 | Toys steam engines* | NA |
| 39 | Finger paints | NA |
| 40 | Rattles | NA |
| 41 | Elastics | NA |
| 42 | Yo-yo type balls | NA |
| 43 | Magnetic toys | NA |

Remark(s): (a) NA = Not Applicable
(b) * = This item is not included in CNAS Accreditation scope.
(c) NR = Not Required by the client

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14. Flammability – SOR/2011-17

PASS

| Clause | Parameter | Results |
|--------|--|---------|
| 21 | Celluloid or cellulose nitrate | Pass |
| 32 | Dolls, plush toys and soft toys – Flammability of outer covering | NA |
| 33 | Dolls, plush toys and soft toys – Flammability of yarn | NA |
| 34 | Dolls, plush toys and soft toys – Flammability of hair or mane | NA |

15. Lead Content (Pb) and Mercury Content (Hg)*

Canada Product Safety Laboratory Book 5 - Laboratory Policies and Procedures Part B, Test Methods Section, Method C02.2:2017 & Method C-07:2019

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|------------|--------------|----------|---------------|------------|
| | | 1 | | |
| 1 | Lead (Pb) | N.D. | 90 | 10 |
| 2 | Mercury (Hg) | N.D. | Not Detected | 5 |
| Conclusion | | PASS | - | - |

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) *This item is not included in CNAS Accreditation scope.

16. Soluble Migrated Elements- SOR/ 2011 - 17*

Canada Product safety reference manual Book 5- Laboratory policies and procedures Part B: Test Methods Section, Method C-03: 2018, determined by ICP-OES

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|---------------|----------|---------------|------------|
| | | 1 | | |
| 1 | Antimony (Sb) | N.D. | 1000 | 5 |
| 2 | Arsenic (As) | N.D. | 1000 | 2 |
| 3 | Barium (Ba) | N.D. | 1000 | 5 |
| 4 | Cadmium (Cd) | N.D. | 1000 | 5 |

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| | | | | |
|---|---------------|------|------|---|
| 5 | Selenium (Se) | N.D. | 1000 | 5 |
| | Conclusion | PASS | - | - |

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d) *=This item is not included in CNAS Accreditation scope.

17. Phthalates – (DBP, BBP, DEHP, DNOP, DINP, DIDP)*

Canada health – Product Safety Reference Manual, Book 5 - Laboratory Policies and Procedures Part B: Test Methods Section.
Method C-34:2018, Solvent extract and determined by GC/MS, solvent extract and determined by GC/MS

| Compound | | | Material | | | Limit (%) | RL (%) |
|----------|------------|--|----------|------|------|-----------|--------|
| | | | 1 | 2 | 4 | | |
| 1 | DBP | Dibutylphthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 2 | BBP | Benzylbutylphthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 3 | DEHP | Diethylhexylphthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 4 | DNOP | Di-n-octylphthalate CAS# 117-84-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 5 | DINP | Diisononylphthalate CAS# 28553-12-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 6 | DIDP | Diisodecylphthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| | Conclusion | | PASS | PASS | PASS | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)
(c) *=This item is not included in CNAS Accreditation scope.

18. Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys* AS/NZS ISO 8124.1:2023

| Section | Testing Items | Assessment |
|---------|------------------------------|------------|
| 4 | Requirements | |
| 4.1 | Normal use | Pass |
| 4.2 | Reasonably foreseeable abuse | Pass |
| 4.3 | Material | Pass |

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| Section | Testing Items | Assessment |
|---------|--|------------|
| 4.4 | Small parts | NA |
| 4.5 | Shape, size, and strength of certain toys | NA |
| 4.6 | Edges | Pass |
| 4.7 | Points | Pass |
| 4.8 | Projections | NA |
| 4.9 | Metal wires and rods | NA |
| 4.10 | Plastic film or plastic bags in packaging and in toys | Pass |
| 4.11 | Cords and elastics | NA |
| 4.12 | Folding mechanisms | NA |
| 4.13 | Holes, clearances and accessibility of mechanisms | NA |
| 4.14 | Springs | NA |
| 4.15 | Stability and overload requirements | NA |
| 4.16 | Enclosures | NA |
| 4.17 | Simulated protective equipment, such as helmets, hats and goggles. | NA |
| 4.18 | Projectile toys | NA |
| 4.19 | Rotors and propellers | NA |
| 4.20 | Aquatic toys | NA |
| 4.21 | Braking | NA |
| 4.22 | Toy bicycles | NA |
| 4.23 | Speed limitation of electrically driven ride-on toys | NA |
| 4.24 | Toys containing a heat source | NA |
| 4.25 | Liquid-filled toys | Pass |
| 4.26 | Mouth-actuated toys | NA |
| 4.27 | Toy roller skates, toy inline skates and toy skateboards | NA |
| 4.28 | Percussion caps | NA |

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| Section | Testing Items | Assessment |
|---------|--|------------|
| 4.29 | Acoustic requirements | NA |
| 4.30 | Toy scooters | NA |
| 4.31 | Magnets and magnetic components | NA |
| B | Safety-labeling guidelines and manufacturer's markings | |
| B.1 | General | Pass |
| B.2 | Safety-labeling guidelines | Pass |
| B.3 | Instructional literature | NA |
| B.4 | Manufacturer's markings | Pass |
| | The name, trademark or mark of the manufacturer or the distributor | NA |
| | The address of the manufacturer or the distributor | NA |

Remark(s): (a) NA = Not Applicable
(b) *=This item is not included in CNAS accreditation scope

19. Flammability Properties - Australian/New Zealand Standard on Safety of Toys* AS/NZS ISO 8124.2:2023

| Section | Testing Items | Assessment |
|---------|--|------------|
| 4.1 | General requirement | Pass |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in a play | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.5 | Soft-filled toys (animals and dolls, etc.) with a piled or textile surface | NA |

Remark(s): (a) NA = Not Applicable
(b) Except for 4.1 Flammable, highly flammable and extremely flammable gases, liquids and gelatinous bodies materials.
(c) *=This item is not included in CNAS accreditation scope

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e-mail: stsgz@stsapp.com

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20. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys* AS/NZS ISO 8124.3:2021+A1: 2023,determined by ICP-OES

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|------------|---------------|----------|------|------|------------------|---------------|
| | | 1 | 2 | 3 | | |
| 1 | Antimony (Sb) | N.D. | N.D. | N.D. | 60 | 5 |
| 2 | Arsenic (As) | N.D. | N.D. | N.D. | 25 | 2 |
| 3 | Barium (Ba) | N.D. | N.D. | N.D. | 1000 | 5 |
| 4 | Cadmium (Cd) | N.D. | N.D. | N.D. | 75 | 5 |
| 5 | Chromium (Cr) | N.D. | N.D. | N.D. | 60 | 5 |
| 6 | Lead (Pb) | N.D. | N.D. | N.D. | 90 | 5 |
| 7 | Mercury (Hg) | N.D. | N.D. | N.D. | 60 | 5 |
| 8 | Selenium (Se) | N.D. | N.D. | N.D. | 500 | 5 |
| Conclusion | | PASS | PASS | PASS | - | - |

Remark(s): (a) mg/kg: milligram per kilogram = part per million = ppm
(b) RL: Report limit
(c) N.D.: Not detected (result is less than RL)
(d)*=This item is not included in CNAS accreditation scope

21. Phthalates content- As Client' s Requirement Refer To CPSC-CH-C1001-09.4, determined by GC-MS

| Compound | | | Material | | | Client's Limit (%) | RL (%) |
|----------|------|---|----------|------|------|-----------------------|--------|
| | | | 1 | 2 | 4 | | |
| 1 | DBP | Dibutyl phthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 2 | DEHP | Di(2-ethylhexyl) phthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 3 | BBP | Benzyl butyl phthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 4 | DINP | Di-isononyl phthalate CAS# 68515-48-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate CAS# 117-84-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 6 | DIDP | Di-isodecyl phthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |

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| | | | | | | | |
|-------------------|------|---|-------------|-------------|-------------|-----|-------|
| 7 | DPP | Dipentyl phthalate CAS# 131-18-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 8 | DIBP | Di-iso-butyl phthalate CAS# 84-69-5 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 9 | Dnpp | Phthalic acid, bis-n-pentyl ester CAS# 131-18-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 10 | DIHP | 1,2-Benzenedicarboxylic acid, di- C6-8-branchedalkyl esters, C7- rich CAS# 71888-89-6 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 11 | DHNP | 1,2-Benzenedicarboxylic acid, di- C7-11-branched and linear alkyl esters CAS# 68515-42-4 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 12 | DMEP | Dimethoxyethyl phthalate CAS# 117-82-8 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 13 | DIPP | Di-isopentyl phthalate CAS# 605-50-5 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 14 | PIPP | N-pentyl-isopentylphthalate O-CAS# 776297-69-9 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 15 | - | 1,2-Benzenedicarboxylic acid, dipentylester, branched and linear CAS# 84777-06-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 16 | DHP | Di-n-hexyl phthalate CAS# 84-75-3 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 17 | DNHP | Di-n-hexyl phthalate CAS# 84-75-3 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| Conclusion | | | PASS | PASS | PASS | - | - |

Remark(s): (a) RL: Report limit

(b) N.D.: Not detected (result is less than RL)

(c) Only DBP/DIBP/DPP/DNHP/DEHP/BBP/DINP are included in CNAS accreditation scope.

22. Phthalates – (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-ASTM F963-23 CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

| Compound | | | Material | | Limit (%) | RL (%) |
|----------|-------|--|----------|------|-----------|--------|
| | | | 1 | 2 | | |
| 1 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | 0.1 | 0.005 |
| 2 | DBP | Dibutylphthalate CAS# 84-74-2 | N.D. | N.D. | 0.1 | 0.005 |
| 3 | DPENP | Di-n-pentyl phthalate CAS# 131-18-0 | N.D. | N.D. | 0.1 | 0.005 |
| 4 | DHEXP | Di-n-hexyl phthalate CAS# 84-75-3 | N.D. | N.D. | 0.1 | 0.005 |
| 5 | BBP | Benzylbutylphthalate CAS# 85-68-7 | N.D. | N.D. | 0.1 | 0.005 |
| 6 | DEHP | Diethylhexylphthalate CAS# 117-81-7 | N.D. | N.D. | 0.1 | 0.005 |

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A301&A401, 3/F.&4/F., Xinghui Building, Guanqiao, Shilou, Panyu District, Guangzhou, Guangdong, China
Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.dphtl.com

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| | | | | | | |
|------------|------|--|------|------|-----|-------|
| 7 | DCHP | Dicycphexyl Phthalate CAS# 84-61-7 | N.D. | N.D. | 0.1 | 0.005 |
| 8 | DINP | Diisononylphthalate CAS# 28553-12-0 | N.D. | N.D. | 0.1 | 0.005 |
| Conclusion | | | PASS | PASS | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)

23. Tracking labels for children 's products CPSIA H.R. 4040 Sec. 103

| Test Item | Standard/Clause | Criteria | Judgement |
|--|-----------------------------|---|-----------|
| Tracking labels for children 's products | CPSIA H.R. 4040 Sec. 103 | A permanent and distinguishing mark or code on the product and its packaging, to the extent practicable, allows the manufacturer and purchaser to ascertain the name of the manufacturer or private labeler, location and date of production of the product. Verified the Presence only. The accuracy of tracking labeler on the tracking label will not be verified. | PASS |

Remark(s): (a) This item is not included in CNAS accreditation scope.

24. Lead-Containing Paint-16 CFR 1303 CPSC-CH-E1003-09.1 (coating), determined by AAS

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|------------|-----------|----------|------------------|---------------|
| | | 1 | | |
| 1 | Lead (Pb) | N.D. | 90 | 10 |
| Conclusion | | PASS | - | - |

Remark(s): (a) RL: Report limit
(b) N.D.: Not detected (result is less than RL)
(c) mg/kg: milligram per kilogram

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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web://www.dphtl.com

e-mail: stsgz@stsapp.com

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Material List:

| Material # | Sample Description / Position |
|------------|-------------------------------|
| 1 | Black coating,frame |
| 2 | Transparen plastic,plate |
| 3 | Brown wood,frame |
| 4 | White soft plastic,stopper |

Photo(s):



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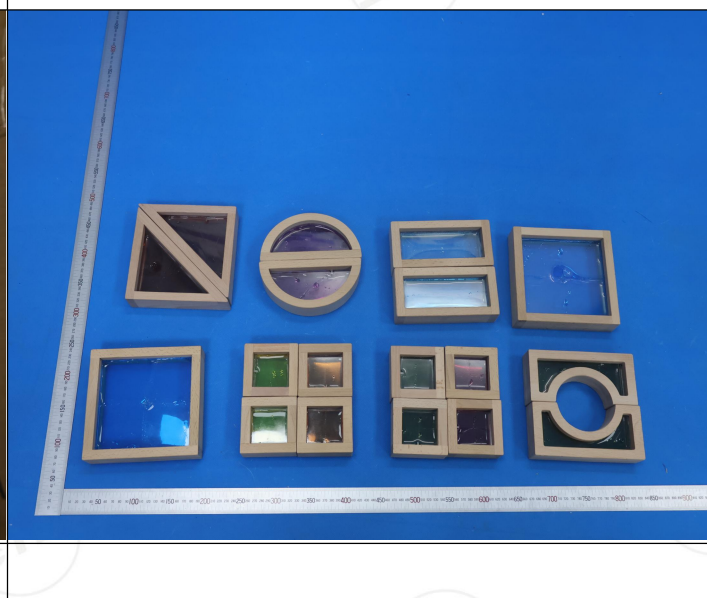
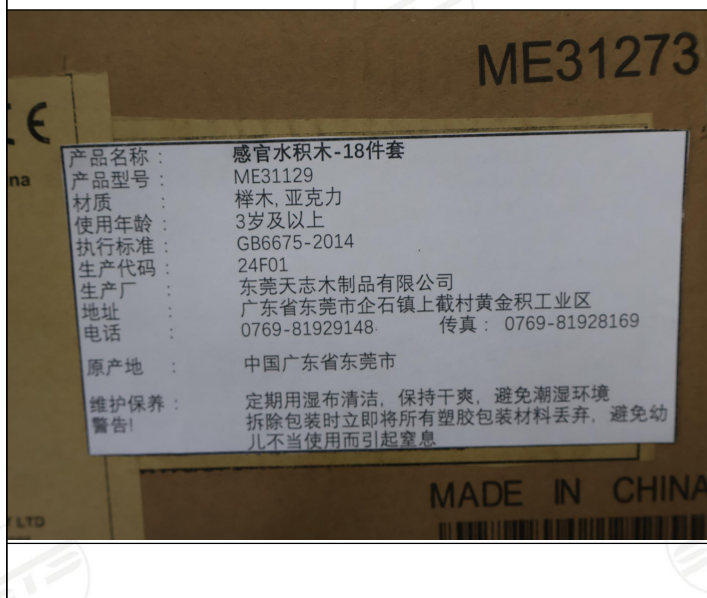
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Phone: +86 (0)20-6664 1688 Fax: +86 (0)20-6664 1699 Web: www.dphl.com

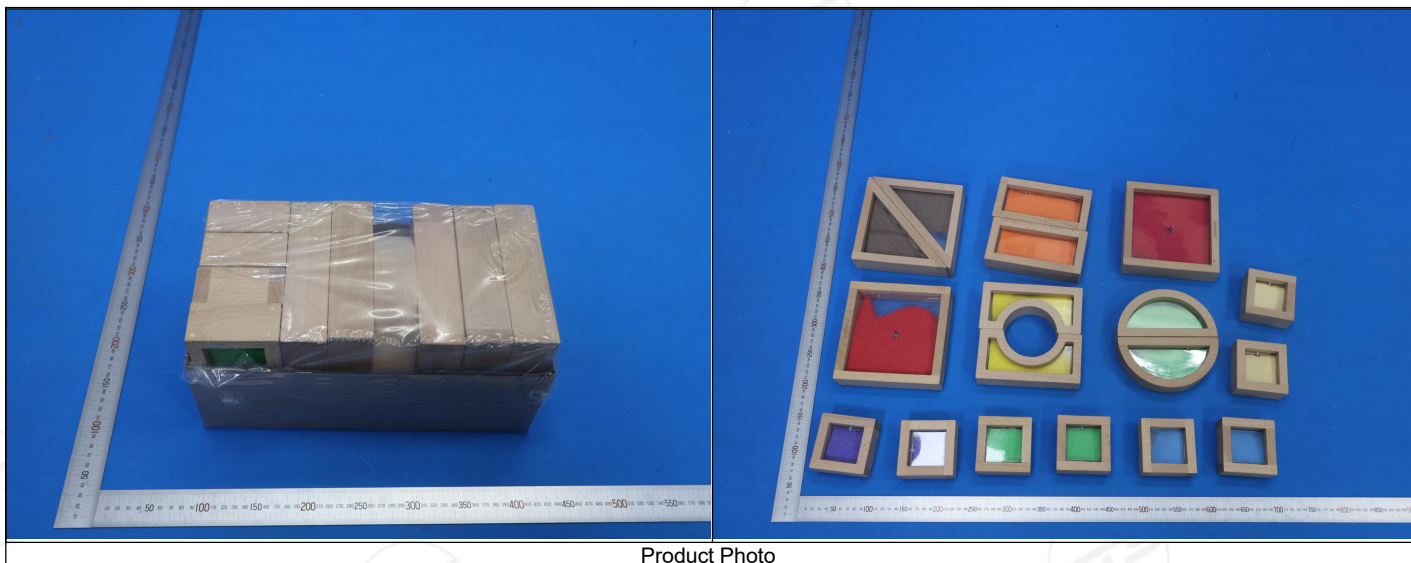
e-mail: stsgz@stsapp.com

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Product Photo

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e-mail: stsgz@stsapp.com

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