



TEST REPORT

Report No.: STSGZ2105113079E

Date: 27-May-2021

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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: Sensory Liquid Tiles, Puzzle-Shaped Sensory Liquid Tiles

Model/Style/Item #: ME20796, ME25296

Labeled Age Grading: 3+

Requested Age Grading: 3+

Tested Age Grading: 3+

Receiving Date: 11-May-2021, 27-May-2021

Test Period: From 11-May-2021 to 27-May-2021

Add Information: -

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

Signed for and on behalf of STS

Tim Qi
(Technical Director)



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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 | General labeling requirement(CE marking, manufacturer/importer name and address, and product identification) | 2009/48/EC | PASS |
| 3 | Safety of Toys: Flammability | EN 71-2:2011+A1:2014 | PASS |
| 4 | Safety of Toys: Migration of Certain Elements | EN 71-3:2019 | PASS |
| 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 F963-17 | PASS |
| 8 | Flammability of Solids | 16 CFR 1500.44 / ASTM F963-17, A5 | PASS |
| 9 | Soluble Migrated Elements ASTM F963-17 | ASTM F963-17, determined by ICP-OES | PASS |
| 10 | Lead Content (Pb) ASTM F963-17 | CPSC-CH-E1001-08.3 (Metal Substrate), 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-E1001-08.3 (Metal Substrate), 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)-Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307 | CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS | PASS |
| 13 | Mechanical and Physical Properties | SOR/2011-17 | PASS |
| 14 | Flammability | SOR/2011-17 | PASS |
| 15 | Lead Content (Pb) and Mercury Content (Hg) SOR/2011-17 | SOR/2011-17, determined by ICP-OES | PASS |
| 16 | Soluble Migrated Elements SOR/2011-17 | SOR/2011-17, determined by ICP-OES | PASS |
| 17 | Mechanical and Physical Propertie - Australian/New Zealand Standard on Safety of Toys | AS/NZS 8124.1:2016 | PASS |
| 18 | Flammability Properties - Australian/New Zealand Standard on Safety of Toys | AS/NZS 8124.2:2016 | PASS |
| 19 | Soluble elements Content- Australian/New Zealand Standard on Safety of Toys | AS/NZS 8124.3:2012+A1:2016,determined by ICP | PASS |
| 20 | Phthalates content- As Client' s Requirement | CPSC-CH-C1001-09.4, determined by GC-MS | SEE RESULT |

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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 |
| 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 |

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| | | |
|------|---|----|
| 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 |
| 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 | NA |
| 7 | Warnings, markings and instructions for use | |

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| | | |
|------|---|------|
| 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 |
| 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 |

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| | | |
|------|------------------------|----|
| 7.25 | Flying toys | NA |
| 7.26 | Improvised projectiles | NA |

Remark(s): NA = Not Applicable

2. General labeling requirement - 2009/48/EC

PASS

| Item(s) | Results |
|--|---------|
| CE Mark | Pass |
| Manufacturer/importer name and address | Pass |
| Product identification | Pass |

3. Safety of Toys: Flammability – EN 71-2:2011+A1:2014

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): NA = Not Applicable

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4. Safety of Toys: Migration of Certain Elements

EN 71-3:2019

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. | N.D. | 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.

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 | 3 | 4 | | |
| 1 | DBP | Dibutyl Phthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 2 | BBP | Benzylbutyl Phthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 3 | DEHP | Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 4 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate CAS# 117-84-0 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 6 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 7 | DIDP | Diisodecyl phthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 8 | Sum of 1, 2, 3 & 4 | | N.D. | N.D. | N.D. | N.D. | 0.1 | - |
| 9 | Sum of 5, 6 & 7 | | N.D. | N.D. | N.D. | N.D. | 0.1 | - |
| | Conclusion | | PASS | PASS | PASS | PASS | - | - |

| Compound | | | Material | | | | Limit (%) | RL (%) |
|----------|------|--|----------|------|------|------|-----------|--------|
| | | | 5 | 6 | 7 | 8 | | |
| 1 | DBP | Dibutyl Phthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 2 | BBP | Benzylbutyl Phthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 3 | DEHP | Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 4 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate CAS# 117-84-0 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |

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|---|--------------------|---|------|------|------|------|-----|-------|
| 6 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 7 | DIDP | Diisodecyl phthalate CAS# 26761-40-0 | N.D. | N.D. | N.D. | N.D. | - | 0.005 |
| 8 | Sum of 1, 2, 3 & 4 | | N.D. | N.D. | N.D. | N.D. | 0.1 | - |
| 9 | Sum of 5, 6 & 7 | | N.D. | N.D. | N.D. | N.D. | 0.1 | - |
| | Conclusion | | PASS | PASS | PASS | PASS | - | - |

| Compound | | | Material | Limit (%) | RL (%) |
|----------|--------------------|--|----------|-----------|--------|
| | | | 9 | | |
| 1 | DBP | Dibutyl Phthalate CAS# 84-74-2 | N.D. | - | 0.005 |
| 2 | BBP | Benzylbutyl Phthalate CAS# 85-68-7 | N.D. | - | 0.005 |
| 3 | DEHP | Bis-(2-ethylhexyl)Phthalate CAS# 117-81-7 | N.D. | - | 0.005 |
| 4 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | - | 0.005 |
| 5 | DNOP | Di-n-octyl phthalate CAS# 117-84-0 | N.D. | - | 0.005 |
| 6 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0 | N.D. | - | 0.005 |
| 7 | DIDP | Diisodecyl phthalate CAS# 26761-40-0 | N.D. | - | 0.005 |
| 8 | Sum of 1, 2, 3 & 4 | | N.D. | 0.1 | - |
| 9 | Sum of 5, 6 & 7 | | N.D. | 0.1 | - |
| | Conclusion | | 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 | 2 | 3 | 4 | | |
| 1 | Cadmium (Cd) CAS#7440-43-9 | N.D. | N.D. | N.D. | N.D. | 100 | 10 |
| Conclusion | | PASS | PASS | PASS | PASS | - | - |

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| Compound | | Material | | | | Limit (mg/kg) | RL (mg/kg) |
|----------|-------------------------------|-------------|-------------|-------------|-------------|------------------|---------------|
| | | 5 | 6 | 7 | 8 | | |
| 1 | Cadmium (Cd) CAS#7440-43-9 | N.D. | N.D. | N.D. | N.D. | 100 | 10 |
| | Conclusion | PASS | PASS | PASS | PASS | - | - |

| Compound | | Material | Limit (mg/kg) | RL (mg/kg) |
|----------|-------------------------------|----------|------------------|---------------|
| | | 9 | | |
| 1 | Cadmium (Cd) CAS#7440-43-9 | 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)

7. Mechanical and Physical Properties – ASTM F963-17

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 | Pass |
| 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 | NA |

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| | | |
|------|---|----|
| 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 |
| 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 |

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| | | |
|------|---|------|
| 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 |
| 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 | Pass |
| 5.12 | Toy Caps | NA |
| 5.13 | Art Materials | NA |
| 5.14 | Electric Toys | NA |
| 5.16 | Promotional Materials | NA |
| 5.17 | Magnets | NA |
| 6 | Instructional Literature | |
| 6.1 | Definition and Description | NA |
| 6.2 | Crib and Playpen Toys | NA |
| 6.3 | Mobiles | NA |
| 6.4 | Toys Intended to be Assembled by an Adult | NA |

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| | | |
|------|---|------|
| 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 |

Remark(s): NA = Not Applicable

8. Flammability of Solids – 16 CFR 1500.44 / ASTM F963-17, A5

PASS

| Clause | Parameter | Results |
|-----------------------------------|--------------|---------|
| 16 CFR 1500.44 / ASTM F963-17, A5 | Flammability | Pass |

9. Soluble Migrated Elements ASTM F963-17, 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 |

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| | | | | | | |
|---|-------------------|-------------|-------------|-------------|-----|---|
| 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)

10. Lead Content (Pb) – ASTM F963-17

CPSC-CH-E1001-08.3 (Metal Substrate), 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 | 2 | 3 | | |
| 1 | Lead (Pb) | N.D. | N.D. | N.D. | 100 | 10 |
| | 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)

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

CPSC-CH-E1001-08.3 (Metal Substrate), 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 | 2 | 3 | | |
| 1 | Lead (Pb) | N.D. | N.D. | N.D. | 100 | 10 |
| | 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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12. Phthalates (DIBP, DBP, DPENP, DHEXP, BBP, DEHP, DCHP, DINP)-Consumer Product Safety Improvement Act of 2008(H.R. 4040) & H.R.2715 amendment &16 CFR Part 1307. CPSC-CH-C1001-09.4, Solvent extract and determined by GC/MS

| Compound | | | Material | | | Limit (%) | RL (%) |
|------------|-------|--|----------|------|------|-----------|--------|
| | | | 1 | 2 | 3 | | |
| 1 | DIBP | Diisobutyl phthalate CAS# 84-69-5 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 2 | DBP | Dibutyl phthalate CAS# 84-74-2 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 3 | DPENP | Di-n-pentyl Phthalate CAS# 131-18-0 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 4 | DHEXP | Di-n-hexyl Phthalate CAS# 84-75-3 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 5 | BBP | Benzyl butyl phthalate CAS# 85-68-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 6 | DEHP | Bis (2-ethylhexyl) phthalate CAS# 117-81-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 7 | DCHP | Dicyclohexyl Phthalate CAS# 84-61-7 | N.D. | N.D. | N.D. | 0.1 | 0.005 |
| 8 | DINP | Di-iso-nonyl phthalate CAS# 28553-12-0,68515-48-0 | 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)

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

PASS

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

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| | | |
|----|--|----|
| 12 | Glass | NA |
| 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): NA = Not Applicable

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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) SOR/2011-17, determined by ICP-OES

| Compound | | Material | | | Limit (mg/kg) | RL (mg/kg) |
|----------|--------------|----------|------|------|------------------|---------------|
| | | 1 | 2 | 3 | | |
| 1 | Lead (Pb) | N.D. | N.D. | N.D. | 90 | 10 |
| 2 | Mercury (Hg) | N.D. | N.D. | N.D. | Not Detected | 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)

16. Soluble Migrated Elements SOR/2011-17, determined by ICP-OES

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

17. Mechanical and Physical Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.1:2016

| Section | Testing Items | Assessment |
|---------|--|------------|
| 4 | Requirements | |
| 4.1 | Normal use | Pass |
| 4.2 | Reasonably foreseeable abuse | Pass |
| 4.3 | Material | Pass |
| 4.4 | Small parts | Pass |
| 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 | NA |
| 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 |

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| Section | Testing Items | Assessment |
|---------|--|------------|
| 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 |
| 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 | 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 | Pass |
| | The address of the manufacturer or the distributor | Pass |

Remark(s): NA = Not Applicable

18. Flammability Properties - Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.2:2016

| 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 |

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| | | |
|-----|--|----|
| 4.5 | Soft-filled toys (animals and dolls, etc.) with a piled or textile surface | NA |
|-----|--|----|

Note: NA = Not Applicable.

19. Soluble elements Content- Australian/New Zealand Standard on Safety of Toys AS/NZS 8124.3:2012+A1:2016, determined by ICP

| 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)

20. 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 | 3 | | |
| 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 |

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| | | | | | | | |
|----|------|---|------|------|------|-----|-------|
| 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 |
| 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 |

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

Material List:

| Material # | Position / Sample Description |
|------------|-------------------------------|
| 1 | Translucent plastic, board |
| 2 | White plastic, board |
| 3 | Gray foam with white fiber |
| 4 | Red ink, inner |
| 5 | Purple ink, inner |
| 6 | Orange red ink, inner |

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| | |
|---|-------------------------|
| 7 | Yellow ink, inner |
| 8 | Yellow green ink, inner |
| 9 | Blue ink, inner |

Photo(s):



Product Photo

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声明 Statement

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The information as listed on the first page of this test report was all provided by the client except the sample from, date received, test period, test results and test conclusion. The client shall be responsible for the representativeness of sample and authenticity of materials, for which STS shall bear no responsibilities.
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