Client：+++= applicant\_name+++

Address：+++= applicant\_address+++

|  |  |  |
| --- | --- | --- |
| Sample Description | Name: +++FOR name IN product\_names++++++= $name +++  +++END-FOR name+++  Item No.: +++= item\_nos.join(`, `)+++  Country of Origin: +++= country\_of\_origin+++  +++= labeled\_age\_grade? `Labeled Age Grade: ${labeled\_age\_grade}  ` : ''++++++= age\_grade? `Age Grade: ${age\_grade}  ` : ''++++++= client\_specified\_testing\_age\_grade? `Age Grade for testing per customer’s request: ${client\_specified\_testing\_age\_grade}  ` : ''+++ | |
|  |  | |
| Manufacturer | +++= manufacturer\_name+++ | |
|  | +++= manufacturer\_address+++ | |
|  |  | |
| Consignee | +++= buyer\_name+++ | |
|  | +++= buyer\_address+++ | |
|  |  | |
| Samples Received | +++= acceptance\_date+++ | |
|  |  | |
| Date of Test | +++= acceptance\_date+++to 22 Jan., 2019 | |
|  |  | |
| Test Requested | +++FOR test IN tests+++  +++= $test+++  +++END-FOR test+++ | |
|  |  | |
| Test Result | Refer to the next Pages | |
|  |  | |
| Conclusion | Test Item | Judgement |
| +++FOR test IN tests+++ |  |  |
|  | *+++= $test+++* | *Pass /* ***Fail*** |
| +++END-FOR test+++ |  |  |

**Test Results**

**APPROPRIATE AGE GRADE DETERMINATION**

|  |
| --- |
| The Appropriate Age Grade is determined with reference to the Japan Toy Safety Standard Part 1:2016 and Age Grade Determination Guidelines of the Consumer Product Safety Commission (CPSC). |
| 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 Japan Recreation and Miscellaneous Goods Safety Laboratory Hong Kong to determine an appropriate age grade will be used for testing. |

**EXPLANATION OF THE ABBREVIATIONS FOR JAPAN TOY SAFETY STANDARD, ST PART 1 & 2**

|  |  |
| --- | --- |
| **Symbol** | **Explanation** |
| NM | The sample(s) DOES NOT MEET the requirement of this Subclause |
| M | The sample(s) MEET the requirement of this Subclause |
| N/A | Not Applicable |
| NR | Not Requested |
| NE | Not Evaluated |
| NT | Not Tested |
| NP | None Present |
| P | Present |
| R | Refer to Comment Section of this report |

－ End of this page －

**Test Results**

|  |  |  |
| --- | --- | --- |
| **Test method: Japan Toy Safety Standard, ST 2016 Part 1, Mechanical and Physical Properties** | | |
| **Subclause** | **Requirement** | **Result** |
| 4.1 | Normal use | M |
| 4.2 | Reasonably foreseeable abuse | M |
| 4.3 | Material | M |
| 4.3.1 | Material Quality | M |
| 4.3.2 | Expanding materials | N/A |
| 4.3.3 | Stuffing materials | M |
| 4.3.4 | Glass and pottery | N/A |
| 4.4 | Small parts | M |
| 4.4.1 | Small Parts (under 36 months) | M |
| 4.4.2 | Small Parts warning (36 months and over) | N/A |
| 4.5 | Shape, size and strength of certain toys | N/A |
| 4.5.1 | Squeeze toys, rattles and certain other toys | N/A |
| 4.5.1.1 | General | N/A |
| 4.5.1.2 | Squeeze toys, rattles, and certain other toys and components of toys | N/A |
| 4.5.1.3 | Other toys or components of toys with nearly spherical, hemispherical, circular flared, or dome-shaped ends of toys having a mass less than 0,5 kg and intended for children under 18 months | N/A |
| 4.5.1.4 | Toy fasteners (e.g. nails, bolts, screws, and pegs) with nearly spherical, hemispherical, or dome-shaped ends intended for children 18 months and over but under 48 months | N/A |
| 4.5.2a | Small Ball (under 36 months) | N/A |
| 4.5.2b | Small ball warning (36 months and over) | N/A |
| 4.5.3 | Pompoms | N/A |
| 4.5.4 | Pre-school play figures | N/A |
| 4.5.5 | Toy pacifiers | N/A |
| 4.5.6 | Balloons warning | N/A |
| 4.5.7 | Marbles warning | N/A |
| 4.5.8 | Hemispheric-shaped toys | N/A |
| 4.5.9 | Suction cup | N/A |
| 4.6 | Edges | M |
| 4.7 | Points | M |
| 4.8 | Projections | N/A |
| 4.9 | Metal wires and rods | N/A |
| 4.9a | Metal wires or other metal materials used for stiffening or for retention | N/A |
| 4.9b | Ends of spokes on toy umbrellas | N/A |
| 4.10 | Plastic film or plastic bags in toys | N/A |
| 4.11 | Cords and elastics | N/A |
| 4.12 | Folding mechanisms | N/A |

－ End of this page －

**Test Results**

|  |  |  |
| --- | --- | --- |
| **Test method: Japan Toy Safety Standard, ST 2016 Part 1, Mechanical and Physical Properties** | | |
| **Subclause** | **Requirement** | **Result** |
| 4.13 | Holes, clearances and accessibility of mechanisms | N/A |
| 4.13.1 | Circular holes in rigid materials (under 60 months) | N/A |
| 4.13.2 | Accessible clearances for movable segments (under 96 months) | N/A |
| 4.13.3 | Other driving mechanisms | N/A |
| 4.13.4 | Winding keys (under 36 months) | N/A |
| 4.14 | Springs | N/A |
| 4.15 | Stability and overload requirements | N/A |
| 4.16 | Enclosures | N/A |
| 4.17 | Simulated protective equipment | N/A |
| 4.18 | Projectile toys | N/A |
| 4.19 | Aquatic toys  Warning | N/A |
| 4.18 | Projectile toys | N/A |
| 4.19 | Aquatic toys  Warning | N/A |
| 4.20 | Toys containing a heat source | N/A |
| 4.21 | Liquid-filled toys  Warning | N/A |
| 4.22 | Mouth-actuated toys | N/A |
| 4.23 | Acoustic Requirement | N/A |
| 4.24 | Magnets and magnetic components | N/A |
| 4.24.1 | Magnetic/electrical experimental sets (for children 8 years and over)  Warning | N/A |
| 4.24.2 | All other toys with magnets and magnetic components (under 8 years) | N/A |
| 4.24.2 a | Loose-as-received magnet(s) and magnetic component(s) | N/A |
| 4.24.2 b | Wooden toys, toys intended in water and mouth pieces of mouth-actuated toys with magnets or magnetic components | N/A |
| 4.24.2c | Magnet(s) and magnetic component(s) liberated from toy | N/A |
| 4.25 | Inflatable vinyl toys intended to be used on land | N/A |
| 4.26 | Batteries | N/A |
| 4.27 | Food imitation toys and toys which possess a food scent | N/A |
| 6 | Packaging | M |

－ End of this page －

**Test Results**

|  |  |  |
| --- | --- | --- |
| **Test method: Japan Toy Safety Standard, ST 2016 Part 1, Mechanical and Physical Properties** | | |
| **Subclause** | **Requirement** | **Result** |
| 7 | Marking | M |
| 7.1.1 | Economic proprietor, intended age grading | M |
|  | Letter size shall be 7 point (or Class 10) or more | M |
| 7.1.1 (1) | Name, trademark and address of manufacturer, importer or other economic proprietor | M |
| 7.1.1 (2) | Intended age grading | M |
| 7.1.2 | Warnings | N/A |
| 7.1.3 | Cautions | M |
| 7.2 | Indication of warnings | N/A |
| 7.2.1 | Location of warnings | N/A |
| 7.2.2 | Description of warnings | N/A |
| 7.2.3 | Size of letter | N/A |
|  | Shall be legible, indelible and prominent | N/A |
|  | Small hiragana | N/A |
| 7.2.4 | Wordings of warnings | N/A |
| 7.2.4.1 | Toys intended for children over 36 months containing small parts, small balls or marbles | N/A |
| 7.2.4.2 | Latex balloons | N/A |
| 7.2.4.3 | Toys incorporating functional sharp point or edges | N/A |
| 7.2.4.4 | Cords | N/A |
| 7.2.4.4.1 | Toys with cords intended for children 18 months and over but under 36 months | N/A |
| 7.2.4.4.2 | Toys with cords intended to be strung across a cradle, cot or perambulator | N/A |
| 7.2.4.4.3 | Toys intended for children under 36 months with electrical cables longer than 300 mm | N/A |
| 7.2.4.5 | Toy kites and other flying toys | N/A |
| 7.2.4.6 | Simulated protective equipment | N/A |
| 7.2.4.7.1 | Projectile toys with stored energy (>0.08J) | N/A |
| 7.2.4.7.2 | Projectile toys capable of discharging object other than provided toy | N/A |
| 7.2.4.8 | Aquatic toys | N/A |
| 7.2.4.9 | Liquid-filled toys | N/A |
| 7.2.4.10 | Acoustics | N/A |
| 7.2.4.11 | Magnetic/electrical experimental sets intended for 8 years and over | N/A |

－ End of this page －

**Test Results**

|  |  |  |
| --- | --- | --- |
| **Test method: Japan Toy Safety Standard, ST 2016, Part 2, Flammability** | | |
| **Subclause** | **Requirement** | **Result** |
| 4.1 | Celluloid (cellulose nitrate) | NP |
| 4.1 | Surface flash on a piled surface | M |
| 4.1 | Flammable Gases | N/A |
| 4.1 | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | N/A |
| 4.2 | Toys to be worn on the head | N/A |
| 4.3 | Toy disguise costumes and toys intended to be worn by a child in play | N/A |
| 4.3 | warning on product and packaging (10 - 30 mm/s) | N/A |
| 4.4 | Toys intended to be entered by a child | N/A |
| 4.4 | warning on product and packaging (10 - 30 mm/s) | N/A |
| 4.5 | Soft - filled toys | M |

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**Test method: Japan Toy Safety Standard, ST 2016 Part 3 / BANPRESTO Standard**

**Description**

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **Sample name** | | **No.** | **Part name** | **Material: color** | **Coating** |
| A |  | 1 | Mask | Polyester: blue | (a) White/ (b) Blue coating |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| B |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
| C |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
|  |  |  |  |  |  |
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|  |  |  |  |  |  |

Note 1: Material name(s) was(were) described as provided and declared by the client.

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**Test Results**

|  |  |  |
| --- | --- | --- |
| **Clause 1.1 Coloring matters** | | |
|  | | |
| **(All materials (except textile product))** | | |
| **Sample No.** | **Test Result** | **Conclusion** |
|  | Choose an item. |  |
|  | Choose an item. |  |
|  | Choose an item. |  |
|  | Choose an item. |  |
|  | Choose an item. |  |
|  | Choose an item. |  |

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
| **(Textile: less than three years old)** | | | | |  |
| **Sample No.** | | **Test Result** | **Conclusion** | |  |
| 1 | | Choose an item. |  | |  |
| 2 | | Choose an item. |  | |  |
| 3 | | Choose an item. |  | |  |
| 4 | | Choose an item. |  | |  |
| 5 | | Choose an item. |  | |  |
| Standards: Not recognized | | |  | |  |
| (Excepting coloring matter listed in Attached Table 1 of Ordinance for Enforcement of the Food Sanitation Law) | | | | |  |
|  |  | | | | |
| Note 1: \* Materials among samples were the same as provided and declared by the client. | | | |  | |
| Note 2: ^ Client confirmed Permissible coloring matters were not used. | | | |  | |
| Note 3: # Confirmed by Section II-B Additive ― General Testing method,30.Thin Layer Chromatography identification for  synthetic coloring agent (coal tar dyes) | | | |  | |
|  |  | | | | |
| Permissible coloring matter listed in Appended Table 1 of the Japan Food Sanitation Law  ①　Food Red No.2 (Amaranth) ⑦　Food Red No.106 (Acid Red)  ②　Food Red No.3 (Erythrosine) ⑧　Food Yellow No.4 (Tartrazine)  ③　Food Red No.40 (Allura Red AC) ⑨　Food Yellow No.5 (Sunset Yellow FCF)  ④　Food Red No.102 (New Coccine) ⑩　Food Green No.3 (Fast Green FCF)  ⑤　Food Red No.104 (Phloxine) ⑪　Food Blue No.1 (Brilliant Blue FCF)  ⑥　Food Red No.105 (Rose Bengale) ⑫　Food Blue No.2 (Indigo Carmine) | | | |  | |
|  | | | |  | |
| Note 4: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |  | |

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Clause 1.2 Parts that are made of materials which are mainly composed of polyethylene (excluding parts on which**  **paint coating is applied)** | | | | | | |
|  | | | | | | |
|  | **Test Result** | | | | **Conclusion** |  |
| **Sample No.** | **Consumption of**  **potassium**  **permanganate**  **(µg/ml)** | **Residue after**  **evaporation**  **(µg/ml)** | **Heavy metals**  **(as Lead/Pb)**  **(µg/ml)** | **Arsenic**  **(as arsenious acid/As2O3)**  **(µg/ml)** |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| Limit | ≤ 10 | ≤ 30 | ≤ 1 | ≤ 0.1 |  |  |
| Note 1: < denotes less than. | | | | | |  |
| Note 2: ≤ denotes less than or equal to. | | | | | |  |
| Note 3: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | | | | |  |
| Note 4: N/T denotes no test due to insufficiency of tested component to test based on single sample according to BANPRESTO  Standard (miscellaneous goods). | | | | | |  |
| Note 5: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | |  |

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|  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- |
| **Clause 1.2 Parts that are made of materials which are mainly composed of polyvinyl chloride (excluding parts on which**  **paint coating is applied)** | | | | | | | |
|  | | | | | | | |
|  | **Test Result** | | | | | **Conclusion** | |
| **Sample No.** | **Consumption of**  **potassium**  **permanganate (µg/ml)** | **Residue after**  **evaporation (µg/ml)** | **Heavy metals**  **(as Lead/Pb) (µg/ml)** | **Arsenic**  **(as arsenious acid/As2O3) (µg/ml)** | **Cadmium**  **(µg/ml)** |
|  |  |  |  |  |  |  | |
|  |  |  |  |  |  |  | |
|  |  |  |  |  |  |  | |
| Limit | ≤ 50 | ≤ 50 | ≤ 1 | ≤ 0.1 | ≤ 0.5 |  | |
| Note 1: < denotes less than. | | | | | | | |
| Note 2: ≤ denotes less than or equal to. | | | | | | | |
| Note 3: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | | | | | | |
| Note 4: \* The test was conducted on PVC base material with PVC coating due to separation difficulties. | | | | | | | |
| Note 5: \* The test is inclusive of Clause 1.4 where PVC coating was tested with the base material due to separation difficulties. | | | | | | |  |
| Note 6: N/T denotes no test due to insufficiency of tested component to test based on single sample according to BANPRESTO Standard (miscellaneous goods). | | | | | | |  |
| Note 7: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | |  |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Clause 1.3 Decalcomania** | | | |
|  | | | |
|  | **Test Result** | | **Conclusion** |
| **Sample No.** | **Heavy metals**  **(as Lead/Pb)**  **(µg/ml)** | **Arsenic**  **(as arsenious acid/As2O3) (µg/ml)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Limit | ≤ 1 | ≤ 0.1 |  |
| Note 1: < denotes less than. | | | |
| Note 2: ≤ denotes less than or equal to. | | | |
| Note 3: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Clause 1.3 Folded papers** | | | |
|  | | | |
|  | **Test Result** | | **Conclusion** |
| **Sample No.** | **Heavy metals**  **(as Lead/Pb)**  **(µg/ml)** | **Arsenic**  **(as arsenious acid/As2O3) (µg/ml)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Limit | ≤ 1 | ≤ 0.1 |  |
| Note 1: < denotes less than. | | | |
| Note 2: ≤ denotes less than or equal to. | | | |
| Note 3: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Clause 1.3 Rubber - made toys (excluding rubber pacifiers)** | | | |
|  | | | |
|  | **Test Result** | | **Conclusion** |
| **Sample No.** | **Heavy metals**  **(as Lead/Pb)**  **(µg/ml)** | **Arsenic**  **(as arsenious acid/As2O3) (µg/ml)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Limit | ≤ 1 | ≤ 0.1 |  |
| Note 1: < denotes less than. | | | |
| Note 2: ≤ denotes less than or equal to. | | | |
| Note 3: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | | |
| Note 4: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Clause 1.4 Vinyl chloride resin coating** | | | |
|  | | | |
|  | **Test Result** | | **Conclusion** |
| **Sample No.** | **Consumption of potassium**  **Permanganate**  **(µg/ml)** | **Residue after evaporation**  **(µg/ml)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Limit | ≤ 50 | ≤ 50 |  |
| Note 1: < denotes less than. | | | |
| Note 2: ≤ denotes less than or equal to. | | | |
| Note 3: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | | |
| Note 4: ^ The test was conducted with PVC coating on ABS material (substrate). | | | |
| Note 5: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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|  |  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Clause 1.5 The paint coating applied to the body or the components of the toys (excluding the printing ink used for**  **paper containers) (including Vinyl chloride resin coating)** | | | | | | | | | | |
|  | | | | | | | | | | |
|  | | **Test Result** | | | | | | | | **Conclusion** |
| **Sample No.** | **Weight**  **(mg)** | **Sb**  **(mg/kg)** | **As**  **(mg/kg)** | **Ba**  **(mg/kg)** | **Cd**  **(mg/kg)** | **Cr**  **(mg/kg)** | **Pb**  **(mg/kg)** | **Hg**  **(mg/kg)** | **Se**  **(mg/kg)** |
| A(a) | 15 | < 50 | < 5 | < 5 | < 5 | < 5 | < 5 | < 5 | < 25 | Pass |
|  |  |  |  |  |  |  |  |  |  |  |
| A(c) | < 10 | N/T | N/T | N/T | N/T | N/T | N/T | N/T | N/T | N/T |
| A(d) | - |  |  |  |  |  |  |  |  |  |
| Limit | | ≤ 60 | ≤ 25 | ≤ 1000 | ≤ 75 | ≤ 60 | ≤ 90 | ≤ 60 | ≤ 500 |  |
| Note 1: Sb = Antimony, As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium | | | | | | | | | | |
| Note 2: The samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation according to  ST2016:Part3 - Clause 1.5.1 | | | | | | | | | | |
| Note 3: Results are calculated with Correction values. | | | | | | | | | | |
| Note 4: < denotes less than. | | | | | | | | | | |
| Note 5: ≤ denotes less than or equal to. | | | | | | | | | | |
| Note 6: N/T denotes no test due to coating weight less than 10mg. | | | | | | | | | | |
| Note 7: - denotes peeling inability. | | | | | | | | | | |
| Note 8: \* The test was conducted with colors mixed due to separation difficulties. | | | | | | | | | | |
| Note 9: ^ Materials among samples were the same as provided and declared by the client. | | | | | | | | | | |
| Note 10: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | | | | | |

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|  |  |  |
| --- | --- | --- |
| **Clause 1.6.1 Textile products used for toys that are intended for children of 24 months of age or less** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Formaldehyde Content** |
| A\* (All textiles mixed) |  |  |
|  |  |  |
|  |  |  |
| Limit | ≤ 0.05 (as absorbance (A-A0)) |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: \* The test was conducted on sample with coatings due to peeling inability. | | |
| Note 4: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | |
| Note 5: ^ The test was conducted as per client’s request. | | |
| Note 6: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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|  |  |  |
| --- | --- | --- |
| **Clause 1.6.2 Textile products used for toys intended for children over 24 months that keep in touch with human**  **body directly for some time during their used** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Formaldehyde Content**  **(µg/g)** |
| A\* (All textiles mixed) |  |  |
|  |  |  |
|  |  |  |
| Limit | ≤ 75 (as Formaldehyde) |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: \* The test was conducted on sample with coatings due to peeling inability. | | |
| Note 4: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | |
| Note 5: ^ The test was conducted as per client’s request. | | |
| Note 6: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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|  |  |  |
| --- | --- | --- |
| **Clause 1.6.2 Adhesives used for toy** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Formaldehyde content**  **(µg/g)** |
|  |  |  |
|  |  |  |
|  |  |  |
| Limit | ≤ 75 (as Formaldehyde) |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | |
| Note 4: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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|  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- |
| **Clause 1.7 Soap bubble solution (Soap bubbles produced by straw-type toys\*1)** | | | | | | |
|  | | | | | | |
|  | **Test Result** | | | | | **Conclusion** |
| **Sample No.** | **Surfactant equivalent content (\*2)** | **Fluorescent brightener** | **Heavy metals**  **(as lead)** | **The volume of soap bubble solution (\*3)** | **Coloring matters** |
| 9 | ≤ 3 %^ | Nothing^ | Nothing^ | 65~ | Pass~ | Pass |
|  |  |  |  |  |  |  |
| Limit | ≤ 3 % | Nothing | Nothing | ≤ 30 mL | Not recognized (\*4) |  |
| Note 1: < denotes less than. | | | | | | |
| Note 2: ≤ denotes less than or equal to. | | | | | | |
| Note 3: N.D. denotes Not Detected. | | | | | | |
| Note 4: \*1 With the straw directly put to the mouth when soap bubbles are blown and which is so constructed as to prevent ingestion of bubble solution. | | | | | | |
| Note 5: \*2 Excluding soap content as fatty acid. | | | | | | |
| Note 6: \*3 The volume per container. | | | | | | |
| Note 7: \*4 Excepting the coloring matter listed in attached Table 1 of Ordinance for Enforcement of the Food Sanitation Law. | | | | | | |
| Note 8: ^ Materials among samples were the same as provided and declared by the client. Test was conducted on a representative material. | | | | | | |
| Note 9: ~ Test was conducted individually for each sample in different containers. | | | | | | |
| Note 10: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- |
| **Clause 1.7 Soap bubble solution (Soap bubbles produced by non-straw-type toys)** | | | | | | |
|  | | | | | | |
|  | **Test Result** | | | | | **Conclusion** |
| **Sample No.** | **Surfactant equivalent content (\*1)** | **Fluorescent brightener** | **Heavy metals**  **(as lead)** | **The volume of soap bubble solution (\*2)** | **Coloring matters** |
| 9 | ≤ 3 %^ | Nothing^ | Nothing^ | 65~ | Pass~ |  |
|  |  |  |  |  |  |  |
| Limit | ≤ 3 % | Nothing | Nothing | ≤ 600 mL | Not recognized (\*3) |  |
| Note 1: < denotes less than. | | | | | | |
| Note 2: ≤ denotes less than or equal to. | | | | | | |
| Note 3: N.D. denotes Not Detected. | | | | | | |
| Note 4: \*1 Excluding soap content as fatty acid. | | | | | | |
| Note 5: \*2 The volume per container. | | | | | | |
| Note 6: \*3 Excepting the coloring matter listed in attached Table 1 of Ordinance for Enforcement of the Food Sanitation Law. | | | | | | |
| Note 7: ^ Materials among samples were the same as provided and declared by the client. Test was conducted on a representative material. | | | | | | |
| Note 8: ~ Test was conducted individually for each sample in different containers. | | | | | | |
| Note 9: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | |

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|  |  |  |
| --- | --- | --- |
| **Clause 1.8.1 Coloring matters** | | |
|  | | |
| **(Graphic instruments- from three years old to less than six years old)** | | |
| **Sample No.** | **Test Result** | **Conclusion** |
|  |  |  |
|  |  |  |
|  |  |  |
| Standards: Not recognized (from three years old to less than six years old) | | |
| Below 10 times that of the comparison standard solution (six years old or more) | | |
| (Excepting the coloring matter stipulated in Table 1 attached to Enforcement Regulations, Food Sanitation Act.) | | |
|  | | |
| Note 1: \* Materials among samples were the same as provided and declared by the client. | | |
| Note 2: ^ Client confirmed Permissible coloring matters were not used. | | |
| Note 3: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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| **Clause 1.8.2 Heavy Metal: 8 elements** | | | | | | | | | | |
|  | | | | | | | | | | |
| **(Graphic instruments)** | | | | | | | | | | |
|  | | **Test Result** | | | | | | | | **Conclusion** |
| **Sample No.** | **Weight**  **(mg)** | **Sb**  **(mg/kg)** | **As**  **(mg/kg)** | **Ba**  **(mg/kg)** | **Cd**  **(mg/kg)** | **Cr**  **(mg/kg)** | **Pb**  **(mg/kg)** | **Hg**  **(mg/kg)** | **Se**  **(mg/kg)** |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
| Limit | | ≤ 60 | ≤ 25 | ≤ 1000 | ≤ 75 | ≤ 60 | ≤ 90 | ≤ 60 | ≤ 500 |  |
| Note 1: Sb = Antimony, As = Arsenic, Ba = Barium, Cd = Cadmium, Cr = Chromium, Pb = Lead, Hg = Mercury, Se = Selenium | | | | | | | | | | |
| Note 2: The samples with sample weight less than 100 mg, were assumed to be 100 mg in calculation according  to ST2016:Part3 - Clause 1.8.2 | | | | | | | | | | |
| Note 3: Results are calculated with Correction values. | | | | | | | | | | |
| Note 4: < denotes less than. | | | | | | | | | | |
| Note 5: ≤ denotes less than or equal to. | | | | | | | | | | |
| Note 6: \* denotes using solvent-extraction (used solvent: Heptane) | | | | | | | | | | |
| Note 7: ^ Materials among samples were the same as provided and declared by the client. | | | | | | | | | | |
| Note 8: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | | | | | |

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| --- | --- | --- | --- | --- | --- | --- | --- |
| **Clause 1.9 Phthalates for plasticized material** | | | | | | | |
|  | | | | | | | |
|  | **Test Result** | | | | | | **Conclusion** |
| **Sample No.** | **DBP**  **(%(w/w))** | **DEHP (%(w/w))** | **BBP**  **(%(w/w))** | **DNOP**  **(%(w/w))** | **DINP**  **(%(w/w))** | **DIDP**  **(%(w/w))** |
| A1 base |  |  |  |  |  |  |  |
| A(a-c) |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |
| Limit | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 | ≤ 0.1 |  |
| Note 1: DBP = Di-n-butyl phthalate  DEHP = Bis(2-ethylhexyl) phthalate  BBP = Benzyl-n-butyl phthalate  DNOP = Di-n-octyl phthalate  DINP = Di-iso-nonyl phthalate  DIDP = Di-iso-decyl phthalate | | | | | | | |
| Note 2: < denotes less than. | | | | | | | |
| Note 3: ≤ denotes less than or equal to. | | | | | | | |
| Note 4: \* The test was conducted on mixed colors of sample of single material due to insufficiency in weight. | | | | | | | |
| Note 5: ^ The test was conducted on the sample with the (fiber/substrate/textile/base) material. | | | | | | | |
| Note 6: # The test was conducted as per client’s request. | | | | | | | |
| Note 7: + Test for six kinds of Phthalates was conducted as per client’s request. | | | | | | | |
| Note 8: ~ The test was conducted on sample with base material and coating mixed due to insufficiency in weight of coating. | | | | | | | |
| Note 9: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | | |

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| --- | --- | --- |
| **Clause 1.11 Metals used for toys (neither painted nor covered)** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Lead**  **(mg/kg)** |
|  |  |  |
|  |  |  |
| Limit | ≤ 90 |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: \* Materials among samples were the same as provided and declared by the client. | | |
| Note 4: ^ The test was conducted with XXX due to separation difficulties. | | |
| Note 5: # Test was not conducted because the part cannot completely fit in the small part cylinder specified in 5.15 of Part 1 of the Toy Safety Standard. | | |
| Note 6: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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| --- | --- | --- | --- |
| **Clause BP-S-M-005 Coloring matters** | | | |
|  | | | |
| **(All materials (except textile product))** | | | |
| **Sample No.** | | **Test Result** | **Conclusion** |
|  | | Choose an item. | Pass |
|  | | Choose an item. |  |
| Standards: Not recognized |  | | |
| (Excepting coloring matter listed in Attached Table 1 of Ordinance for Enforcement of the Food Sanitation Law) | | | |
|  | | | |
| Note 1: \* Materials among samples were the same as provided and declared by the client. | | | |
| Note 2: ^ Client confirmed Permissible coloring matters were not used. | | | |
| Note 3: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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| --- | --- | --- | --- |
| **Clause BP-S-M-007 Rubber - made toys** | | | |
|  | | | |
|  | **Test Result** | | **Conclusion** |
| **Sample No.** | **Heavy metals**  **(as Lead/Pb)**  **(µg/ml)** | **Arsenic**  **(as arsenious acid/As2O3) (µg/ml)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Limit | ≤ 1 | ≤ 0.1 |  |
| Note 1: < denotes less than. | | | |
| Note 2: ≤ denotes less than or equal to. | | | |
| Note 3: N/T denotes no test due to insufficiency of tested component to test based on 10 single samples. | | | |
| Note 4: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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| --- | --- | --- |
| **Clause BP-S-M-010 Formaldehyde (Textile products: over 24 months of age)** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Formaldehyde Content**  **(µg/g)** |
| A\* (All textiles mixed) |  |  |
| B\* (All textiles mixed) |  |  |
|  |  |  |
| Limit | ≤ 75 (as Formaldehyde) |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: \* The test was conducted on sample with coatings due to peeling inability. | | |
| Note 4: ^ The test was conducted as per client’s request. | | |
| Note 5: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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| --- | --- | --- | --- | --- | --- | --- | --- | --- |
| **Clause BP-S-M-023 Phthalates (6 kinds)** | | | | | | | | |
|  | | | | | | | | |
|  | **Test Result** | | | | | | | **Conclusion** |
| **Sample No.** | **DBP**  **(ppm)** | **DEHP**  **(ppm)** | **BBP**  **(ppm)** | **DNOP**  **(ppm)** | **DINP**  **(ppm)** | **DIDP**  **(ppm)** | **Total**  **Phthalate**  **(ppm)** |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |
|  | | | | | | Limit | < 1000 |  |
| Note 1: DBP = Di-n-butyl phthalate  DEHP = Bis(2-ethylhexyl) phthalate  BBP = Benzyl-n-butyl phthalate  DNOP = Di-n-octyl phthalate  DINP = Di-iso-nonyl phthalate  DIDP = Di-iso-decyl phthalate | | | | | | | | |
| Note 2: < denotes less than. | | | | | | | | |
| Note 3: ≤ denotes less than or equal to. | | | | | | | | |
| Note 4: \* The test was conducted on mixed colors of sample of single material due to insufficiency in weight. | | | | | | | | |
| Note 5: ^ The test was conducted on the sample with the (fiber/substrate/textile/base) material. | | | | | | | | |
| Note 6: \* The test was conducted on mixed colors of sample of single material according to BANPRESTO Standard (miscellaneous goods). | | | | | | | | |
| Note 7: ^ The test was conducted as per client’s request. | | | | | | | | |
| Note 8: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | | | |

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| --- | --- | --- |
| **Clause BP-S-M-024.5 Metals used for toys** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Lead**  **(mg/kg)** |
|  |  |  |
|  |  |  |
|  |  |  |
| Limit | ≤ 90 |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: \* Materials among samples were the same as provided and declared by the client. | | |
| Note 4: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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|  |  |  |  |
| --- | --- | --- | --- |
| **Clause BP-S-M-032 Natural leather/PU/PUR** | | | |
|  | | | |
|  | **Test Result** | | **Conclusion** |
| **Sample No.** | **Chromium**  **(mg/kg)** | **Lead**  **(mg/kg)** |
|  |  |  |  |
|  |  |  |  |
|  |  |  |  |
| Limit | ≤ 60 | ≤ 90 |  |
| Note 1: < denotes less than. | | | |
| Note 2: ≤ denotes less than or equal to. | | | |
| Note 3: \* The test was conducted on the sample with the textile material. | | | |
| Note 4: N/T denotes no test due to insufficiency of tested component to test based on 1 set of sample(s) according to BANPRESTO Standard. | | | |
| Note 5: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | |

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|  |  |  |
| --- | --- | --- |
| **Clause BP-S-M-034 Bisphenol A** | | |
|  | | |
|  | **Test Result** | **Conclusion** |
| **Sample No.** | **Bisphenol A**  **(ppb)** |
|  |  |  |
|  |  |  |
|  |  |  |
| Limit | ≤ 2500 |  |
| Note 1: < denotes less than. | | |
| Note 2: ≤ denotes less than or equal to. | | |
| Note 3: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | | |

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|  |  |
| --- | --- |
| **Clause BP Coating Material Identification** | |
|  | |
|  | **Test Result** |
| **Sample No.** | **Material** |
|  |  |
|  |  |
|  |  |
| Note: Material(s) was(were) identified by fourier transform infrared spectroscopy. | |
| Remark: Base on PVC confirmation test, unknown coating material(s) was(were) verified whether it(they) contain(s) PVC  material(s) according to BANPRESTO standard. | |
| Note 1: Fail Result(s) is(are) highlighted in Underlined-Bold-Red font. | |

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**Chemical Properties requirements**

**EN71 Part 3:2013+A3:2018 Migration of Certain Elements (Category III)**

**Description**

|  |  |  |  |
| --- | --- | --- | --- |
| **No.** | **Color / Component** | **Location** | **Style** |
| 1 | Sample | Sample |  |
| 2 |  |  |  |
| 3 |  |  |  |
| 4 |  |  |  |
| 5 |  |  |  |
| 6 |  |  |  |
| 7 |  |  |  |

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**Test Results**

**Migration of Certain Elements (Category III) 1**

**Test method: EN71-3:2013+A3:2018, Annex E**

|  |  |  |  |  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- | --- | --- | --- | --- |
|  | **Test Result** | | | | | | | | |
| **Unit (mg/kg)** | **Sample No.** | | | | | | | **Limit** | |
| 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| **Weight (mg)** |  |  |  |  |  |  |  |
| **Al** |  |  |  |  |  |  |  | 70000 | |
| **Sb** |  |  |  |  |  |  |  | 560 | |
| **As** |  |  |  |  |  |  |  | 47 | |
| **Ba** |  |  |  |  |  |  |  | 18750 | |
| **B** |  |  |  |  |  |  |  | 15000 | |
| **Cd** |  |  |  |  |  |  |  | 17 | |
| **Cr (III)** | < 0.15 | < 0.15 | < 0.15 | < 0.15 | < 0.15 | 0.813 | < 0.15 | 460 | |
| **Cr (VI)\*** | < 0.002\* | 0.2 | |
| **Co** |  |  |  |  |  |  |  | 130 | |
| **Cu** |  |  |  |  |  |  |  | 7700 | |
| **Pb** |  |  |  |  |  |  |  | 160 | |
| **Mn** |  |  |  |  |  |  |  | 15000 | |
| **Hg** |  |  |  |  |  |  |  | 94 | |
| **Ni** |  |  |  |  |  |  |  | 930 | |
| **Se** |  |  |  |  |  |  |  | 460 | |
| **Sr** |  |  |  |  |  |  |  | 56000 | |
| **Sn** |  |  |  |  |  |  |  | 180000 | |
| **Organic tin#** |  |  |  |  |  |  |  | 12 | |
| **Zn** |  |  |  |  |  |  |  | 46000 | |
| **Conclusion** | Pass | Pass | Pass | Pass | Pass | Pass | Pass |  | |
| Note 1: Al = Aluminum, Sb = Antimony, As = Arsenic, Ba = Barium, B=Boron, Cd = Cadmium, Cr (III) = Chromium (III),  Cr (VI) = Chromium (VI), Co = Cobalt, Cu = Copper, Pb = Lead, Mn = Manganese, Hg = Mercury, Ni = Nickel,  Se = Selenium, Sr = Strontium, Sn = Tin, Zn = Zinc | | | | | | | | |  |
| Note 2: ND denotes Not Detected | | | | | | | | |  |
| Note 3: < denotes less than. | | | | | | | | |  |
| Note 4: N/T denotes no test due to sample weight is less than 10mg. | | | | | | | | |  |
| Note 5 : 1 Samples are subcontracted to 3rd party laboratory. | | | | | | | | |  |
| Note 6: Failed Result(s) is(are) highlighted in Underlined-Bold-Red font. | | | | | | | | |  |
| Note 7: If weight of test portion obtained is between 10 - 100 mg, the weight shall be reported. | | | | | | | | |  |
| Note 8: \* If soluble chromium content or soluble tin content exceeded the screening limits of soluble chromium (VI) or organic tin content, the results were verified by below method.  - Chromium VI: In house Ion-chromatography analysis  - Organic tin: EN71 part 3:2013+A3:2018, Annex G by Gas Chromatography – Mass Spectroscopy analysis. | | | | | | | | |  |

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<<Sample Photo>>

|  |
| --- |
| *(sample photo)* |
| {product\_name} |
| Choose an item. |
| Choose an item. |
|  |
| *(sample photo)* |
| {product\_name} |
| Choose an item. |
| Choose an item. |

－ End of Report －