

Test Report No. 7191182156

Report Date: April 04, 2018

Note: This report is issued subject to the Testing and Certification Regulations of the TÜV SÜD Group and the General Terms and Conditions of Business of TÜV SÜD PSB Pte Ltd. In addition, this report is governed by the terms set out within this report.



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**Choose certainty.
Add value.**

Client : THAICOLOR CLAY CO., LTD. / TCC MARKETING CO., LTD.
[FOR EXPORT]
175/1 MOO 1 KAERAI KRATHUMBAN SAMUTHSAKORN,
74110 THAILAND
ATTN: MS. KOTCHAKORN P.

Test Sample : RECEIVED ON 13/03/2018

Test Period : FROM 13/03/2018 TO 04/04/2018

Sample Description : SK-TOY BAG SET

Color : /

Product Type/ End Use : /

Model/Style : /

SKU No.: : /

Country of Destination : EUROPE / USA

Country of Origin : THAILAND

Manufacturer : THAICOLOR CLAY CO., LTD.



Laboratory:
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SAMPLE PHOTO



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SUMMARY OF TEST RESULTS

| TEST REQUESTED | CONCLUSION | REMARK |
|---|------------|--------|
| MECHANICAL HAZARDS (EN 71 PART 1) | PASS | EU |
| FLAMMABILITY (EN 71 PART 2) | PASS | EU |
| MIGRATION OF CERTAIN ELEMENTS (EN 71 PART 3) | PASS | EU |
| PHthalATES CONTENT (DEHP, DBP, BBP, DINP, DIDP, DNOP) | PASS | EU |
| MECHANICAL HAZARDS (ASTM F963) | PASS | USA |
| FLAMMABILITY OF SOLIDS | PASS | USA |
| TOTAL HEAVY METAL CONTENTS (ASTM F963) | PASS | USA |
| LEAD CONTENT (CPSIA) | PASS | USA |
| PHthalATES CONTENT (CPSIA) | PASS | USA |

For any concern or technical Inquiries, please contact

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APPROVED BY:

KOO CHIEH VOON
HARDLINE PRODUCT MANAGER

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TEST RESULT(S):
**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014)**

| Subclause | Requirement | Result |
|---|--|--------|
| 4.1 | Material cleanliness | M |
| 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 & 7.6 | Edges | M |
| 4.8 & 7.6 | Points and metallic wires | NA |
| 4.8e | Splinters | M |
| 4.9 | Protruding parts | NA |
| 4.10.1 | Folding and sliding mechanisms | NA |
| 4.10.2 | Driving mechanisms | NA |
| 4.10.3 | Hinges | NA |
| 4.10.4 | Springs | NA |
| 4.11 | Mouth actuated toys and other toys intended to be put in the mouth | NA |
| 4.12 & 7.3 | Balloons | NA |
| 4.13 & 7.9 | Cord of toy kites and other flying toys | NA |
| 4.14.1 | Toys which a child can enter | NA |
| 4.14.2 & 7.8 | Masks and helmets | NA |
| 4.15.1 | Toys propelled by child | |
| 4.15.1.2 & 7.10.1 & 7.10.2 & 7.10.3 & 7.10.4 & 7.16 | Toys propelled by child – Instructions for use | NA |
| 4.15.1.3 | Toys propelled by child – Strength | NA |
| 4.15.1.4 | Toys propelled by child – Stability | NA |
| 4.15.1.5 | Toys propelled by child – Braking | NA |
| 4.15.1.6 | Toys propelled by child - Transmission | NA |
| 4.15.1.7 | Toys propelled by child – insertion mark | NA |
| 4.15.1.8 | Electrically-driven ride-on toys | NA |
| 4.15.2 | Toy bicycles | |
| 4.15.2.2 & 7.15 | Toy bicycles – Warnings and instructions for use | NA |
| 4.15.2.3 | Toy bicycles – Braking | NA |
| 4.15.3 & 7.16 & 7.19 | Rocking horses and similar toys | NA |
| 4.15.4 & 7.16 | Toys not propelled by child | NA |
| 4.15.5 & 7.18 | Toy scooters | NA |
| 4.16 | Heavy immobile toys | NA |
| 4.17.1 | Projectiles – General | NA |
| 4.17.2 | Projectiles toys without stored energy | NA |
| 4.17.3 & 7.7 | Projectile toys with stored energy | NA |
| 4.17.4 & 7.7 | Bows and arrows | NA |
| 4.18 & 7.4 | Aquatic toys and inflatable toys | NA |
| 4.19 & 7.13 & 7.14 | Percussion caps | NA |
| *4.20.2.1-4.20.2.8, 4.20.2.10, 4.20.2.12 | Acoustics | NA |

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**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014)**

| Subclause | Requirement | Result |
|---|---|--------|
| 4.20.2.9, 4.20.2.11 & 7.14 | Acoustics – percussion toys & cap-firing toys | NA |
| 4.21 | Toys containing a non-electrical heat source | NA |
| 4.22 & 7.2 | Small balls | NA |
| 4.23 | Magnet | |
| 4.23.2 a, b & c | Toy other than magnetic / electrical experimental sets intended for children over 8 years | NA |
| 4.23.3 & 7.20 | Magnetic / electrical experimental sets intended for children over 8 years | NA |
| 4.24 | Yo-yo ball | NA |
| 4.25 | Toys attached to food | NA |
| FOR TOYS INTENDED FOR CHILDREN UNDER 36 MONTHS | | |
| 5 | Cleaning instruction for item intended for child under 3 years of age | NA |
| 5.1 | General | NA |
| 5.1a | Small parts – as received | NA |
| 5.1b | Small parts, sharp points, sharp edges – after tests | NA |
| 5.1c | Cross section <2mm metal points & wires | NA |
| 5.1e | Toys contain glue | NA |
| 5.1f | Casing of toys | NA |
| 5.2 | Fillings, coverings and seams | NA |
| 5.3 | Adhesion of plastic sheeting | NA |
| 5.4 & | Cords on toys | NA |
| 5.4(a) | Cords connected to self-retraction mechanism or in pull along toys | NA |
| 5.4(b) & 7.22 | Cords and chains that can form tangled loop or noose | NA |
| 5.4(c) & 7.22 | Fixed loop of cords or chains | NA |
| 5.4(d) | Nooses | NA |
| 5.4(e) | Self-retraction mechanism | NA |
| 5.4(f) & 7.11 | Toy across cradle, cot or perambulator | NA |
| 5.4(g) & 7.22 | Cords and chains with free end (exclude pull along toy) | NA |
| 5.4(h) | Cords and chains with free end on pull along toy | NA |
| 5.4(i) & 7.21 | Electrical cables | NA |
| 5.5 & 7.12 | Liquid filled toys | NA |
| 5.6 | Electrically driven toys | NA |
| 5.7 | Glass and porcelain | NA |
| 5.8 | Shape and size | NA |
| 5.9 & 7.17 | 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 |
| 6 | Packaging | NR |
| WARNINGS, INSTRUCTIONS FOR USE | | |
| 7 | CE Mark | NR |
| 7 | Manufacturer name and address | NR |
| 7 | Importer name and address | NR |
| 7 | Product Identification | NR |
| 7.1 | General | NR |
| 7.2 | Toys not intended for children under 36 months | NR |

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**MECHANICAL & PHYSICAL PROPERTIES
(EN 71: PART 1 – 2014)**

| Subclause | Requirement | Result |
|-----------|-----------------|--------|
| 7.5 | Functional toys | NR |

*M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section NR= Not Request
NT = Not Tested NP = Not Presented*

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 1

| Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method |
|------------|--|------------|---|------------|--|------------|---|
| 4.3 | 8.25.1 | 4.14.2 | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.11, 8.12 | 4.17.3 | 8.24.1 | 5.3 | 8.4.2.1, 8.25 |
| 4.5 | 8.5, 8.7, 8.11, 8.12 | 4.15.1.3 | 8.11, 8.12, 8.21, 8.22 | 4.17.4 | 8.24.2 | 5.4 | 8.20, 8.36, 8.38, 8.39, 8.40 |
| 4.6 | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.14 | 4.15.1.4 | 8.23.1 | 4.18 | 8.2, 8.3, 8.4.2.1 | 5.5 | 8.15 |
| 4.7 | 8.11 | 4.15.1.5 | 8.26.1 | 4.20 | 8.28 | 5.6 | 8.29 |
| 4.8 | 8.12, 8.13 | 4.15.1.8 | 8.29 | 4.21 | 8.30 | 5.8 | 8.16 |
| 4.9 | 8.4.2.3, 8.11, 8.12 | 4.15.2.4 | 8.26.2 | 4.22 | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.32 | 5.10 | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9, 8.32 |
| 4.10.1 | 8.18.2, 8.18.3 | 4.15.3 | 8.21, 8.23.1 | 4.23 | 8.2, 8.3, 8.4.2.1, 8.4.2.2, 8.5, 8.6, 8.7, 8.8, 8.34, 8.35 | 5.11 | 8.33 |
| 4.10.2 | 8.5, 8.6, 8.7, 8.11, 8.12 | 4.15.4 | 8.21, 8.23.1 | 4.24 | 8.37 | 5.12 | 8.3, 8.4.2.1, 8.5, 8.6, 8.7, 8.8, 8.9 |
| 4.11 | 8.2, 8.3, 8.4.2.1, 8.9, 8.17 | 4.15.5 | 8.11, 8.12, 8.21, 8.22, 8.26.3, 8.27 | 4.25 | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32.1 | 5.13 | 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.32 |
| 4.13 | 8.19 | 4.16 | 8.23.2 | 5.1 | 8.2, 8.3, 8.4.2.1, 8.5, 8.7, 8.8, 8.9, 8.11, 8.12 | | |
| 4.14.1 | 8.31.1, 8.31.2 | 4.17.1 | 8.4.2.3 | | | | |

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TEST RESULT(S): (Continued)**FLAMMABILITY (EN 71 PART 2: 2011 + A1: 2014)**

| Subclause | Requirement | Result |
|-----------|---|--------|
| 4.1 | Cellulose nitrate | NP |
| 4.1 | Surface flash on a piled surface | NA |
| *4.1 | Flammable gases | NA |
| *4.1 | Extremely flammable liquids, highly flammable liquids, flammable liquids and flammable gels | NA |
| 4.2 | Toys to be worn on the head | NA |
| 4.3 | Toy disguise costumes and toys intended to be worn by child in play | NA |
| 4.3 | warning on product and packaging (10 - 30 mm/s) | NA |
| 4.4 | Toys intended to be entered by a child | NA |
| 4.4 | warning on product and packaging (10 – 30 mm/s) | NA |
| 4.5 | Soft-filled toys | NA |

REQUIREMENTS & TEST METHODS CROSS REFERENCE TABLE FOR PART 2

| Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method | Sub-clause | Test Method |
|------------|-------------|------------|-------------|------------|-------------|------------|-------------|
| 4.2.2 | 5.2 | 4.2.4 | 5.3 | 4.3 | 5.4 | 4.5 | 5.5 |
| 4.2.3 | 5.3 | 4.2.5 | 5.4 | 4.4 | 5.4 | - | - |

*M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section
NR= Not Request NT = Not Tested NP = Not Presented*

Remark:

- The burn rate limitation is 30 mm/sec.

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TEST RESULT(S): (Continued)

Migration of Certain Elements - European Standard EN 71 Part 3: 2013 with Amendment A2: 2017

Test Method : European Standard EN 71 Part 3: 2013 with Amendment A2: 2017, Section 8.

| | | |
|---|-----------------|--|
| See Soluble Element (Parameter) and its corresponding Maximum Allowable Limit (Req.) in Result Table | Type I | Dry, brittle, powder-like or pliable toy material |
| | Type II | Liquid or sticky toy material |
| | Type III | Scraped-off toy material |

| Test Item(s) | Item / Component Description(s) |
|---------------------|--|
| 1 | Black + Orange + Transparent Orange PP |
| 2 | Pink + Transparent Pink + Red PP |
| 3 | Yellow + Transparent Yellow + White PP |
| 4 | Light Blue + Dark Blue + Pale Blue PP |
| 5 | Transparent Blue + Transparent Yellow PP |
| 6 | Green + Transparent Green PP |
| 7 | Yellow + Red + Green ABS |
| 8 | Blue + White + Purple ABS |
| 9 | Pink + Orange + Peach ABS |
| 10 | Blue + Yellow + Red Hi-Impact |
| 11 | Green + Pink Hi-Impact |
| 12 | Transparent Plastic |
| 13 | Black + Dark Blue + White coating |
| 14 | Light Orange + Yellow + Orange coating |
| 15 | Blue + Light Blue + Brown coating |
| 16 | Light Brown + Sky Blue + Green Coating |

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| - | Unit | Req. | Result | | | | |
|-----------------------|-------|--------|--------|------|------|------|------|
| Test Item(s) | - | - | 1 | 2 | 3 | 4 | 5 |
| Type | - | - | III | III | III | III | III |
| Parameter | - | - | - | - | - | - | - |
| Mass of Trace Amount | g | - | - | - | - | - | - |
| Aluminium (Al) | mg/kg | 70000 | ND | ND | ND | ND | ND |
| Antimony (Sb) | mg/kg | 560 | ND | ND | ND | ND | ND |
| Arsenic (As) | mg/kg | 47 | ND | ND | ND | ND | ND |
| Barium (Ba) | mg/kg | 18750 | ND | ND | ND | ND | ND |
| Boron (B) | mg/kg | 15000 | ND | ND | ND | ND | ND |
| Cadmium (Cd) | mg/kg | 17 | ND | ND | ND | ND | ND |
| Chromium III (Cr III) | mg/kg | 460 | ND | ND | ND | ND | ND |
| Chromium VI (Cr VI) | mg/kg | 0.2 | ND | ND | ND | ND | ND |
| Cobalt (Co) | mg/kg | 130 | ND | ND | ND | ND | ND |
| Copper (Cu) | mg/kg | 7700 | ND | ND | ND | ND | ND |
| Lead (Pb) | mg/kg | 160 | ND | ND | ND | ND | ND |
| Manganese (Mn) | mg/kg | 15000 | ND | ND | ND | ND | ND |
| Mercury (Hg) | mg/kg | 94 | ND | ND | ND | ND | ND |
| Nickel (Ni) | mg/kg | 930 | ND | ND | ND | ND | ND |
| Selenium (Se) | mg/kg | 460 | ND | ND | ND | ND | ND |
| Strontium (Sr) | mg/kg | 56000 | ND | ND | ND | ND | ND |
| Tin (Sn) | mg/kg | 180000 | ND | ND | ND | ND | ND |
| Organic tin | mg/kg | 12 | ND | ND | ND | ND | ND |
| Zinc (Zn) | mg/kg | 46000 | ND | ND | ND | ND | ND |
| Conclusion | - | - | PASS | PASS | PASS | PASS | PASS |

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| - | Unit | Req. | Result | | | | |
|-----------------------|-------|--------|--------|------|------|------|------|
| Test Item(s) | - | - | 6 | 7 | 8 | 9 | 10 |
| Type | - | - | III | III | III | III | III |
| Parameter | - | - | - | - | - | - | - |
| Mass of Trace Amount | g | - | - | - | - | - | - |
| Aluminium (Al) | mg/kg | 70000 | ND | ND | ND | ND | ND |
| Antimony (Sb) | mg/kg | 560 | ND | ND | ND | ND | ND |
| Arsenic (As) | mg/kg | 47 | ND | ND | ND | ND | ND |
| Barium (Ba) | mg/kg | 18750 | ND | ND | ND | ND | ND |
| Boron (B) | mg/kg | 15000 | ND | ND | ND | ND | ND |
| Cadmium (Cd) | mg/kg | 17 | ND | ND | ND | ND | ND |
| Chromium III (Cr III) | mg/kg | 460 | ND | ND | ND | ND | ND |
| Chromium VI (Cr VI) | mg/kg | 0.2 | ND | ND | ND | ND | ND |
| Cobalt (Co) | mg/kg | 130 | ND | ND | ND | ND | ND |
| Copper (Cu) | mg/kg | 7700 | ND | 2.0 | ND | ND | 2.2 |
| Lead (Pb) | mg/kg | 160 | ND | ND | ND | ND | ND |
| Manganese (Mn) | mg/kg | 15000 | ND | ND | ND | ND | ND |
| Mercury (Hg) | mg/kg | 94 | ND | ND | ND | ND | ND |
| Nickel (Ni) | mg/kg | 930 | ND | ND | ND | ND | ND |
| Selenium (Se) | mg/kg | 460 | ND | ND | ND | ND | ND |
| Strontium (Sr) | mg/kg | 56000 | ND | ND | ND | ND | ND |
| Tin (Sn) | mg/kg | 180000 | ND | ND | ND | ND | ND |
| Organic tin | mg/kg | 12 | ND | ND | ND | ND | ND |
| Zinc (Zn) | mg/kg | 46000 | ND | 3.2 | ND | ND | 3.6 |
| Conclusion | - | - | PASS | PASS | PASS | PASS | PASS |

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| - | Unit | Req. | Result | | | | |
|-----------------------|-------|--------|--------|------|------|------|------|
| Test Item(s) | - | - | 11 | 12 | 13 | 14 | 15 |
| Type | - | - | III | III | III | III | III |
| Parameter | - | - | - | - | - | - | - |
| Mass of Trace Amount | g | - | - | - | - | - | - |
| Aluminium (Al) | mg/kg | 70000 | ND | ND | ND | ND | ND |
| Antimony (Sb) | mg/kg | 560 | ND | ND | ND | ND | ND |
| Arsenic (As) | mg/kg | 47 | ND | ND | ND | ND | ND |
| Barium (Ba) | mg/kg | 18750 | ND | ND | ND | ND | ND |
| Boron (B) | mg/kg | 15000 | ND | ND | ND | ND | ND |
| Cadmium (Cd) | mg/kg | 17 | ND | ND | ND | ND | ND |
| Chromium III (Cr III) | mg/kg | 460 | ND | ND | ND | ND | ND |
| Chromium VI (Cr VI) | mg/kg | 0.2 | ND | ND | ND | ND | ND |
| Cobalt (Co) | mg/kg | 130 | ND | ND | ND | ND | ND |
| Copper (Cu) | mg/kg | 7700 | ND | ND | ND | ND | ND |
| Lead (Pb) | mg/kg | 160 | ND | ND | ND | ND | ND |
| Manganese (Mn) | mg/kg | 15000 | ND | ND | ND | ND | ND |
| Mercury (Hg) | mg/kg | 94 | ND | ND | ND | ND | ND |
| Nickel (Ni) | mg/kg | 930 | ND | ND | ND | ND | ND |
| Selenium (Se) | mg/kg | 460 | ND | ND | ND | ND | ND |
| Strontium (Sr) | mg/kg | 56000 | ND | ND | ND | ND | ND |
| Tin (Sn) | mg/kg | 180000 | ND | ND | ND | ND | ND |
| Organic tin | mg/kg | 12 | ND | ND | ND | ND | ND |
| Zinc (Zn) | mg/kg | 46000 | ND | ND | ND | ND | ND |
| Conclusion | - | - | PASS | PASS | PASS | PASS | PASS |

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| - | Unit | Req. | Result |
|-----------------------|-------|--------|--------|
| Test Item(s) | - | - | 16 |
| Type | - | - | III |
| Parameter | - | - | - |
| Mass of Trace Amount | g | - | - |
| Aluminium (Al) | mg/kg | 70000 | ND |
| Antimony (Sb) | mg/kg | 560 | ND |
| Arsenic (As) | mg/kg | 47 | ND |
| Barium (Ba) | mg/kg | 18750 | ND |
| Boron (B) | mg/kg | 15000 | ND |
| Cadmium (Cd) | mg/kg | 17 | ND |
| Chromium III (Cr III) | mg/kg | 460 | ND |
| Chromium VI (Cr VI) | mg/kg | 0.2 | ND |
| Cobalt (Co) | mg/kg | 130 | ND |
| Copper (Cu) | mg/kg | 7700 | ND |
| Lead (Pb) | mg/kg | 160 | ND |
| Manganese (Mn) | mg/kg | 15000 | ND |
| Mercury (Hg) | mg/kg | 94 | ND |
| Nickel (Ni) | mg/kg | 930 | ND |
| Selenium (Se) | mg/kg | 460 | ND |
| Strontium (Sr) | mg/kg | 56000 | ND |
| Tin (Sn) | mg/kg | 180000 | ND |
| Organic tin | mg/kg | 12 | ND |
| Zinc (Zn) | mg/kg | 46000 | ND |
| Conclusion | - | - | PASS |

Note / Key :

ND = Not detected

NR = Not requested

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

[] = Detection Limit by In House Ion Chromatography Analysis

{ } = Detection Limit by test method with reference to EN 71 Part 3: 2013 with Amendment A2: 2017, Annex G

" > " = Greater than
g = gram(s)

Req. = Requirement

INCON. = Inconclusive

Detection Limit (mg/kg) :

For Type I and Type II - Each (As, Cd, Cr III and Hg) : 0.15 ; Cr VI : 0.005 [0.002] ; Organic tin : 0.04 ;

Pb : 0.5 ; Each (Others) : 2

For Type III - Cr III : 0.15 ; Cr VI : 0.15 [0.002] ; Each (Others) : 2

Remark :

- Results of Cr III and Cr VI were reported as sum of soluble chromium content unless further verified.
- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.

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TEST RESULT(S): (Continued)

Phthalates Content in Toys and Childcare Articles - European Regulation (EC) No. 1907/2006 concerning the Registration, Evaluation, Authorisation and Restriction of Chemicals (REACH) with Amendments up to EC No. 494/2011, Annex XVII, Entry 51

| Test Item(s) | Item / Component Description(s) |
|--------------|--|
| 1 | Black + Orange + Transparent Orange PP |
| 2 | Pink + Transparent Pink + Red PP |
| 3 | Yellow + Transparent Yellow + White PP |
| 4 | Light Blue + Dark Blue + Pale Blue PP |
| 5 | Transparent Blue + Transparent Yellow PP |
| 6 | Green + Transparent Green PP |
| 7 | Yellow + Red + Green ABS |
| 8 | Blue + White + Purple ABS |
| 9 | Pink + Orange + Peach ABS |
| 10 | Blue + Yellow + Red Hi-Impact |
| 11 | Green + Pink Hi-Impact |
| 12 | Transparent Plastic |
| 13 | Black + Dark Blue + White coating |
| 14 | Light Orange + Yellow + Orange coating |
| 15 | Blue + Light Blue + Brown coating |
| 16 | Light Brown + Sky Blue + Green Coating |

| | |
|----------------------------------|---|
| Maximum Allowable Limit : | 0.1 % (Sum of all listed phthalates) |
|----------------------------------|---|

| Tested Item(s) | Result | | | Conclusion |
|----------------|---------------------|-------|------|------------|
| | Detected Analyte(s) | Conc. | Unit | |
| 1 | ND | ND | % | PASS |
| 2 | ND | ND | % | PASS |
| 3 | ND | ND | % | PASS |
| 4 | DEHP | 0.008 | % | PASS |
| 5 | ND | ND | % | PASS |
| 6 | ND | ND | % | PASS |
| 7 | ND | ND | % | PASS |
| 8 | ND | ND | % | PASS |
| 9 | ND | ND | % | PASS |
| 10 | ND | ND | % | PASS |
| 11 | ND | ND | % | PASS |
| 12 | ND | ND | % | PASS |
| 13 | ND | ND | % | PASS |
| 14 | ND | ND | % | PASS |
| 15 | ND | ND | % | PASS |
| 16 | ND | ND | % | PASS |

Note / Key :

ND = Not detected

“>” = Greater than

Conc. = Concentration

% = percent

1 % = 10 000 mg/kg

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (%): Each 0.005

Remark :

- The list of phthalates is summarized in table of Appendix.

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APPENDIX

| List of Phthalates [European Regulation EC No. 1907/2006, Annex XVII, Entry 51]: | | | | | |
|--|----------------------------------|---------------------------|-----|-------------------------------|--|
| No. | Name of Analytes | CAS-No. [EC No.] | No. | Name of Analytes | CAS-No. [EC No.] |
| 1 | Butyl benzyl phthalate (BBP) | 85-68-7 [201-622-7] | 4 | Di-iso-nonyl phthalate (DINP) | 28553-12-0 & 68515-48-0 [249-079-5 & 271-090-9] |
| 2 | Dibutyl phthalate (DBP) | 84-74-2 [201-557-4] | 5 | Di-n-octyl phthalate (DNOP) | 117-84-0 [204-214-7] |
| 3 | Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 [204-211-0] | 6 | Di-iso-decyl phthalate (DIDP) | 26761-40-0 & 68515-49-1 [247-977-1 & 271-091-4] |

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TEST RESULT(S): (Continued)**PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)**

| Subclause | Requirement | Result |
|-----------|---|--------|
| 4.1 | Material Quality | M |
| 4.3.7 | Stuffing Materials | NA |
| 4.5 | Sound-Producing Toys | NA |
| 4.6 | Small Objects | NA |
| 4.7 | Accessible Edges | M |
| 4.8 | Projections | NA |
| 4.9 | Accessible Points | M |
| 4.10 | Wires and Rods | NA |
| 4.11 | Nails and Fasteners | NA |
| 4.12 | Plastic Film | NA |
| 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, Clearances 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 |
| 4.25 | Battery-Operated Toys (exclude section 4.25.10 Battery-powered ride-on toys) | NA |
| 4.26 | Toys intended to be Attached to a Crib or Playpen | NA |
| 4.27 | Stuffed and Beanbag-Type Toys | NA |
| 4.30 | Toy Gun Marking | NA |
| 4.32 | Certain Toys with Nearly Spherical Ends | NA |
| 4.34 | Small 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 Entrapment in Handles and Steering Wheels | NA |
| 4.40 | Expanding materials | NA |
| 5.2 | Age Grading Labeling | NR |
| 5.4 & 5.3 | Aquatic Toys | NA |
| 5.5 & 5.3 | Crib and Playpen Toys | NA |
| 5.6 & 5.3 | Mobiles | NA |
| 5.7 & 5.3 | Stroller and Carriage Toys | NA |

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PHYSICAL AND MECHANICAL HAZARDS (ASTM F963-17)

| Subclause | Requirement | Result |
|------------------|---|---------------|
| 5.8 & 5.3 | Toys Intended to be Assembled by an Adult | NA |
| 5.9 & 5.3 | Simulated Protective Devices | NA |
| 5.10 & 5.3 | Toys with Functional Sharp Edges or Sharp Points | NA |
| 5.11 | Small Objects, Small Balls, Marbles and Balloons (16 CFR 1500.19) | NA |
| 5.12 | Toy Caps (16 CFR 1500.86) | NA |
| 5.13 | Art Materials (16 CFR 1500.14(b)(8)) | NA |
| 5.15 | Battery-Operated Toyss (exclude 5.15.1) | NA |
| 5.15.1 & 5.3 | Battery-Powered Ride-On Toys | NA |
| 5.15.2 & 5.3 | Button or coin cell batteries | NA |
| 5.16 | Promotional Materials | NA |
| 5.17 & 5.3 | Magnets | NA |
| 6.1 | Definition and Description | NA |
| 6.2 | Crib and Playpen Toys | NA |
| 6.3 | Mobiles | NA |
| 6.4 & 5.3 | Toys Intended to be Assembled by an Adult | NA |
| 6.5 | Battery-Operated Toys | NA |
| 6.6 | Battery-Powered Ride-On Toys | NA |
| 6.7 | Toys in Contact with Food | NA |
| 7.1 | Producer's Name and Address | NA |
| 7.2 | Battery-Powered Ride-On Toys | NA |

*M = Meet NM = Not Meet NA = Not Applicable R = Refer to Comment Section NR= Not Request
NT = Not Tested NP = Not Presented*

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TEST RESULT(S): (Continued)

FLAMMABILITY (16 CFR SECTION 1500.3(c)(6)(vi))

| Requirement | Test Method Reference | Result |
|---|-----------------------|--------|
| Burn rate no greater than 0.1 of an inch per second | 16 CFR 1500.44 | PASS |



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TEST RESULT(S): (Continued)
Total Heavy Metals Content - Initial Screening of ASTM International Standard ASTM F963-17, Section 4.3.5.1(2) for Soluble Heavy Metals Content in Surface Coating
Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| Test Item(s) | Item / Component Description(s) |
|--------------|--|
| 1 | Black + Dark Blue + White Coating |
| 2 | Light Orange + Yellow + Orange Coating |
| 3 | Blue + Light Blue + Brown Coating |
| 4 | Light Brown + Sky Blue + Green Coating |

| Total Element(s) | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|---------------------------------|----|-------|----|----|----|----|----|-----|
| Maximum Allowable Limit (mg/kg) | 25 | 1 000 | 75 | 60 | 60 | 90 | 60 | 500 |

| - | Unit | Result | | | |
|---------------------|-------|--------|------|------|------|
| Test Item(s) | - | 1 | 2 | 3 | 4 |
| Parameter | - | - | - | - | - |
| Total Arsenic (As) | mg/kg | ND | ND | ND | ND |
| Total Barium (Ba) | mg/kg | ND | ND | ND | ND |
| Total Cadmium (Cd) | mg/kg | ND | ND | ND | ND |
| Total Chromium (Cr) | mg/kg | ND | ND | ND | ND |
| Total Mercury (Hg) | mg/kg | ND | ND | ND | ND |
| Total Lead (Pb) | mg/kg | ND | ND | ND | ND |
| Total Antimony (Sb) | mg/kg | ND | ND | ND | ND |
| Total Selenium (Se) | mg/kg | ND | ND | ND | ND |
| Conclusion | - | PASS | PASS | PASS | PASS |

Note / Key :

ND = Not detected

">" = Greater than

NR = Not requested

% = percent

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg) - As : 10 ; Ba : 40 ; Cd : 20 ; Cr : 10 ; Hg : 10 ; Pb : 20 ; Sb : 20 ; Se : 40

Remark :

- Test Item(s) with total heavy metals content in surface coating exceeding 80 % of this maximum allowable limit based on the lowest weight component or this maximum allowable limit should be considered as data and further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Sections 8.3.2 to 8.3.4 as specified in Section 8.3.1.3.
- Test Item(s) with total lead content in surface coating exceeding this maximum allowable limit should be retained as fail and not required to be further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Sections 8.3.2 to 8.3.4 as specified in Section 8.3.1.3.
- Although the Test Item(s) 1, 2, 3 & 4 complies with the above requirement, it is possible that, if tested separately, one or more of the constituents of this (these) Test Item(s) may not comply with this requirement. Separate testing on this (these) Test Item(s) is recommended to discern the failed constituent(s).



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TEST RESULT(S): (Continued)

Total Heavy Metals Content - Initial Screening of ASTM International Standard ASTM F963-17, Section 4.3.5.2(2)(b) for Soluble Heavy Metals Content in Substrate

Test Method : ASTM International Standard ASTM F963-17, Section 8.3.1 and Annex A7.

| Test Item(s) | Item / Component Description(s) |
|--------------|--|
| 1 | Black + Orange + Transparent Orange PP |
| 2 | Pink + Transparent Pink + Red PP |
| 3 | Yellow + Transparent Yellow + White PP |
| 4 | Light Blue + Dark Blue + Pale Blue PP |
| 5 | Transparent Blue + Transparent Yellow PP |
| 6 | Green + Transparent Green PP |
| 7 | Yellow + Red + Green ABS |
| 8 | Blue + White + Purple ABS |
| 9 | Pink + Orange + Peach ABS |
| 10 | Blue + Yellow + Red Hi-Impact |
| 11 | Green + Pink Hi-Impact |
| 12 | Transparent Plastic |

| Total Element(s) | As | Ba | Cd | Cr | Hg | Pb | Sb | Se |
|---------------------------------|----|-------|----|----|----|----|----|-----|
| Maximum Allowable Limit (mg/kg) | 25 | 1 000 | 75 | 60 | 60 | 90 | 60 | 500 |

| - | Unit | Result | | | | | |
|---------------------|-------|--------|------|------|------|------|------|
| Test Item(s) | - | 1 | 2 | 3 | 4 | 5 | 6 |
| Parameter | - | - | - | - | - | - | - |
| Total Arsenic (As) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Barium (Ba) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Cadmium (Cd) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Chromium (Cr) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Mercury (Hg) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Lead (Pb) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Antimony (Sb) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Selenium (Se) | mg/kg | ND | ND | ND | ND | ND | ND |
| Conclusion | - | PASS | PASS | PASS | PASS | PASS | PASS |

| - | Unit | Result | | | | | |
|---------------------|-------|--------|------|------|------|------|------|
| Test Item(s) | - | 7 | 8 | 9 | 10 | 11 | 12 |
| Parameter | - | - | - | - | - | - | - |
| Total Arsenic (As) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Barium (Ba) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Cadmium (Cd) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Chromium (Cr) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Mercury (Hg) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Lead (Pb) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Antimony (Sb) | mg/kg | ND | ND | ND | ND | ND | ND |
| Total Selenium (Se) | mg/kg | ND | ND | ND | ND | ND | ND |
| Conclusion | - | PASS | PASS | PASS | PASS | PASS | PASS |

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Note / Key :

ND = Not detected

">" = Greater than

NR = Not requested

% = percent

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

Detection Limit (mg/kg) :

For Nonmetallic material(s) - As : 16 ; Ba : 10 ; Cd : 10 ; Cr : 10 ; Hg : 10 ; Pb : 10 ; Sb : 30 ; Se : 50

For Metallic material(s) - As : 10 ; Ba : 50 ; Cd : 10 ; Cr : 10 ; Hg : 10 ; Pb : 10 ; Sb : 20 ; Se : 50

Remark :

- Test Item(s) with total heavy metals content (Except for total lead content) in substrate exceeding 80 % of this maximum allowable limit based on the lowest weight component or this maximum allowable limit should be considered as data and further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3)) as specified in Section 8.3.1.3.
- Test Item(s) with total lead content in substrate exceeding this maximum allowable limit should be retained as fail and not required to be further tested by soluble heavy metals analysis of ASTM International Standard ASTM F963-17, Section 8.3.5 (Excluding 8.3.5.5(3)) as specified in Section 8.3.1.3.
- Although the Test Item(s) 1, 2, 3, 4, 5, 6, 7, 8, 9, 10 & 11 complies with the above requirement, it is possible that, if tested separately, one or more of the constituents of this (these) Test Item(s) may not comply with this requirement. Separate testing on this (these) Test Item(s) is recommended to discern the failed constituent(s).

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TEST RESULT(S): (Continued)

Total Lead Content in Surface Coating - United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Section 101(a)(2) / United States Code of Federal Regulations (CFR), Title 16, Part 1303

Test Method : U. S. CPSC-CH-E1003-09.1 (February 25, 2011).

| Test Item(s) | Item / Component Description(s) |
|--------------|--|
| 1 | Black + Dark Blue + White Coating |
| 2 | Light Orange + Yellow + Orange Coating |
| 3 | Blue + Light Blue + Brown Coating |
| 4 | Light Brown + Sky Blue + Green Coating |

| | |
|---------------------------|----------|
| Maximum Allowable Limit : | 90 mg/kg |
|---------------------------|----------|

| - | Unit | Result | | | |
|-----------------|-------|--------|------|------|------|
| Test Item(s) | - | 1 | 2 | 3 | 4 |
| Parameter | - | - | - | - | - |
| Total Lead (Pb) | mg/kg | ND | ND | ND | ND |
| Conclusion | - | PASS | PASS | PASS | PASS |

Note / Key :

ND = Not detected

">" = Greater than

mg/kg = milligram(s) per kilogram = ppm = part(s) per million

U. S. = United States

10 000 mg/kg = 1 %

% = percent

Potential Total Lead (Pb) = Estimated total lead content per component is based on calculation by component individual weight

Detection Limit (mg/kg) : 10

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TEST RESULT(S): (Continued)**Total Lead Content in Substrate - United States Consumer Product Safety Improvement Act (CPSIA) Section 101(a)(2)****Test Method** : U.S. CPSC-CH-E1001-08.1 (June 21, 2010) or U.S. CPSC-CH-E1002-08.1 (June 21, 2010).

| Test Item(s) | Item / Component Description(s) |
|--------------|--|
| 1 | Black + Orange + Transparent Orange PP |
| 2 | Pink + Transparent Pink + Red PP |
| 3 | Yellow + Transparent Yellow + White PP |
| 4 | Light Blue + Dark Blue + Pale Blue PP |
| 5 | Transparent Blue + Transparent Yellow PP |
| 6 | Green + Transparent Green PP |
| 7 | Yellow + Red + Green ABS |
| 8 | Blue + White + Purple ABS |
| 9 | Pink + Orange + Peach ABS |
| 10 | Blue + Yellow + Red Hi-Impact |
| 11 | Green + Pink Hi-Impact |
| 12 | Transparent Plastic |

| | |
|----------------------------------|------------------|
| Maximum Allowable Limit : | 100 mg/kg |
|----------------------------------|------------------|

| - | Unit | Result | | | | | |
|-------------------|-------|--------|------|------|------|------|------|
| Test Item(s) | - | 1 | 2 | 3 | 4 | 5 | 6 |
| Total Lead (Pb) | mg/kg | ND | ND | ND | ND | ND | ND |
| Conclusion | - | PASS | PASS | PASS | PASS | PASS | PASS |

| - | Unit | Result | | | | | |
|-------------------|-------|--------|------|------|------|------|------|
| Test Item(s) | - | 7 | 8 | 9 | 10 | 11 | 12 |
| Total Lead (Pb) | mg/kg | ND | ND | ND | ND | ND | ND |
| Conclusion | - | PASS | PASS | PASS | PASS | PASS | PASS |

Note / Key :

ND = Not detected
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
10000 mg/kg = 1 %
Detection Limit (mg/kg) : 10

">" = Greater than
% = percent

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TEST RESULT(S): (Continued)

Phthalates Content in Children's Toys and Child Care Articles - United States Code of Federal Regulations (CFR), Title 16, Part 1307 and United States Consumer Product Safety Improvement Act (CPSIA) of 2008, Sections 108(a) and 108(b)(3)

Test Method : With reference to U. S. CPSC Test Method CPSC-CH-C1001-09.3 (April 1, 2010).

| Test Item(s) | Item / Component Description(s) |
|--------------|--|
| 1 | Black + Orange + Transparent Orange PP |
| 2 | Pink + Transparent Pink + Red PP |
| 3 | Yellow + Transparent Yellow + White PP |
| 4 | Light Blue + Dark Blue + Pale Blue PP |
| 5 | Transparent Blue + Transparent Yellow PP |
| 6 | Green + Transparent Green PP |
| 7 | Yellow + Red + Green ABS |
| 8 | Blue + White + Purple ABS |
| 9 | Pink + Orange + Peach ABS |
| 10 | Blue + Yellow + Red Hi-Impact |
| 11 | Green + Pink Hi-Impact |
| 12 | Transparent Plastic |
| 13 | Black + Dark Blue + White coating |
| 14 | Light Orange + Yellow + Orange coating |
| 15 | Blue + Light Blue + Brown coating |
| 16 | Light Brown + Sky Blue + Green Coating |

| | |
|----------------------------------|---|
| Maximum Allowable Limit : | 0.1 % (Each of all listed phthalates) ^[b] |
|----------------------------------|---|

| Tested Item(s) | Result | | | Conclusion |
|----------------|---------------------|-------|------|------------|
| | Detected Analyte(s) | Conc. | Unit | |
| 1 | ND | ND | % | PASS |
| 2 | ND | ND | % | PASS |
| 3 | ND | ND | % | PASS |
| 4 | DEHP | 0.008 | % | PASS |
| 5 | ND | ND | % | PASS |
| 6 | ND | ND | % | PASS |
| 7 | ND | ND | % | PASS |
| 8 | ND | ND | % | PASS |
| 9 | ND | ND | % | PASS |
| 10 | ND | ND | % | PASS |
| 11 | ND | ND | % | PASS |
| 12 | ND | ND | % | PASS |
| 13 | ND | ND | % | PASS |
| 14 | ND | ND | % | PASS |
| 15 | ND | ND | % | PASS |
| 16 | ND | ND | % | PASS |

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Note / Key :

ND = Not detected ">" = Greater than Conc. = Concentration
% = percent 1 % = 10 000 mg/kg
U. S. CPSC = United States Consumer Product Safety Commission
mg/kg = milligram(s) per kilogram = ppm = part(s) per million
Detection Limit (%) : Each of the listed phthalates : 0.005

Remark :

- The list of phthalates is summarized in table of Appendix.
- Accessible plastic materials (Including natural and synthetic rubber), plasticizer print, scrapable surface coatings, decals, unscrapable polymeric coated materials, adhesives and sealants, toy nail polish, reusable packaging, electrical plug and cables of children's toys and childcare articles are applicable to be tested with the exclusion for adhesive for stickers and the materials listed below:
 - (i) Polypropylene (PP);
 - (ii) Polyethylene (PE),
 - (iii) Acrylonitrile butadiene styrene (ABS);
 - (iv) General purpose polystyrene (GPPS);
 - (v) Medium-impact polystyrene (MIPS);
 - (vi) High-impact polystyrene (HIPS);
 - (vii) Super high-impact polystyrene (SHIPS); andTheir additives as listed in United States Code of Federal Regulations (CFR), Title 16, Part 1308.
- ^[b] denotes as this maximum allowable limit applies to product(s) manufactured and imported on or after April 25, 2018.
- If no or unacceptable documentation, like Bill of Materials (BOM) or material identification, is provided by client, phthalate test(s) is (are) required to conduct on all plastic materials.
- Vendor is responsible for the compliance of other accessible materials, including additives in the exempt plastic materials, which are not tested.

APPENDIX

| List of Phthalates [U. S. 16 CFR 1307 and U. S. CPSIA of 2008, Sections 108(a) and 108(b)(3)] : | | | | | |
|---|----------------------------------|------------|-----|---------------------------------------|----------|
| No. | Name of Analyte(s) | CAS-No. | No. | Name of Analyte(s) | CAS-No. |
| 1 | Butyl benzyl phthalate (BBP) | 85-68-7 | 5 | Di-iso-butyl phthalate (DIBP) | 84-69-5 |
| 2 | Dibutyl phthalate (DBP) | 84-74-2 | 6 | Di-n-pentyl phthalate (DnPP or DPENP) | 131-18-0 |
| 3 | Di-2-ethylhexyl phthalate (DEHP) | 117-81-7 | 7 | Di-n-hexyl phthalate (DnHP or DHEXP) | 84-75-3 |
| 4 | Di-iso-nonyl phthalate (DINP) | 28553-12-0 | 8 | Di-cyclohexyl phthalate (DCHP) | 84-61-7 |
| CAS-No. = Chemical Abstracts Service registry number | | | | | |

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