

TEST REPORT



AB-0505-T

72202100031

11.08.2020

LAB LOCATION: TURKEY LAB NO.: (7220)210-0031 **SERVICE TYPE: Regular DATE IN: July 28th, 2020** DATE OUT: August 11th, 2020

MATERIAL SUBMITTED : BIGPOINT KIRTASIYE SAN. ve TİC. LTD. ŞTİ.

(Attn: info@bigpoint.com.tr)

SUPPLIER REFERENCE BP746-12

STYLE NO

BUYER BIGPOINT KIRTASIYE SAN. ve TİC. LTD. ŞTİ.

MANUFACTURER

COUNTRY OF ORIGIN

Sample A: 12 color Erasable Jumbo Wax Crayon SAMPLE DESCRIPTION

COLOR SUBMITTED CARE INSTRUCTION LOT NO

LABEL AGE GRADE 36 M +: 36 M+ **TESTED AGE GRADE GENERAL CONCLUSION** : PASS

SUMMARY OF TEST RESULTS

| TEST REQUIRED | Sample A |
|---|----------|
| EN 71-1:2014+A1:2018 Physical and Mechanical Properties* | P |
| EN 71:2:2011+A1:2014 Flammability* | P |
| EN 71 Part 3: 2019 Migration of Certain Elements* | P |
| Migration of Certain Elements Chromium III and Chromium VI Confirmation | P |
| Phthalates* | P |
| Total Cadmium Content* | P |
| Polynuclear Aromatic Hydrocarbons (PAHs)* | P |
| *TURKAK ACCREDITED TESTS | |

P:PASS F:FAIL

REMARK 1*= The reported expanded uncertainty is based on the standard uncertainty multiplied by a coverage factor of k=2, providing a level of confidence of approximately 95%. Unless otherwise is specified, the uncertainty of measurement has not been taken into account when assessing pass/fail of the sample against the requirements of the standard. In case consideration of measurement uncertainties when assessing pass/fail limits, some results may be in borderline.

The test result, the uncertainties (if applicable) with confidence probability are given on the following pages which are part of this report.

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BV CPS TEST LABORATUVARLARI LTD. STI. BUREAU VERITAS CONSUMER PRODUCTS SERVICES Yalçın Koreş Caddesi No:22 Erdinç Binaları A Blok 2. Kule 1. Kat 34209 Güneşli, Istanbul / Turkey Tel:+90.212.494 35 35 Fax:+90.212.494 35 60 email:info.turkey@bvcps.com.tr

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Our report includes all the tests requested by you and the results thereof based upon the information that you provided to us. You have 60 days from the date of issuance of this report to notify us of any material error or omission caused by our negligence, provided, however, that such notice shall be in writing and shall specifically address the issue you wish to raise. A failure to raise such issue within the prescribed time shall constitute your unqualified acceptance of the completeness of this report, the tests conducted and the correctness of the report contents



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REMARK 1: "Migration of Certain Elements Chromium III and Chromium VI Confirmation*" analysis has been performed by subcontracted laboratory.

EXECUTIVE SUMMARY: Only vendor selected tests have been performed and submitted samples have been rated as "PASS".

Bureau Veritas Consumer Products Services Turkey BV CPS Test Lab. Ltd. Sti.

Eylem Yaldizli

Senior Client Team Lead -Hardline

Yagiz Barin

Hardline & Pharma Lab. Manager



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-Photo of the Submitted Sample-





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TEST RESULTS

EN 71-1: 2014 + A1:2018 PHYSICAL AND MECHANICAL PROPERTIES OF TOYS

| Clause | Clause Description | Test Method | RESULT |
|-----------|--|-------------|---------|
| 4 | General Requirements | - | (A) |
| 4.1 | Material Cleanliness | - | Pass |
| 4.7 & 7.6 | Edges | 8.11 | Pass |
| 4.8 & 7.6 | Points And Metallic Wires | 8.12, 8.13 | Pass |
| | WARNINGS, INSTRUCTIONS FOR USE | | |
| 7 | CE Mark | - | Present |
| 7 | Importer Name And Address | - | Present |
| 7 | Product Identification | - | Present |
| 7.1 | General | - | Pass |
| 7.2 | Toys not intended for children under 36 months | | Pass |

^{*}Remark: The methods indicated with "#" are not accredited.

EN 71-2:2011 + A1: 2014 FLAMMABILITY OF TOYS

| Clause | Clause Description | RESULT |
|--------|----------------------|------------|
| | | (A) |
| 4.1 | General requirements | PASS |



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| Test Item | Sample Description |
|-----------|--------------------|
| I001 | White Box |
| I002 | Blue Crayon |
| I003 | Brown Crayon |
| I004 | Dark Green Crayon |
| I005 | Light Green Crayon |
| I006 | Yellow Crayon |
| I007 | Cream Crayon |
| I008 | Orange Crayon |
| I009 | Red Crayon |
| I010 | Pink Crayon |
| I011 | Purple Crayon |
| I012 | Navy Crayon |
| I013 | Black Crayon |



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TEST RESULTS

Total Cadmium Content*

Test Method: In House Test Method CPSD-AN-00004-MTHD

| Parameter | Unit | Result | Requirement by Client |
|--------------------|------|--------|-----------------------|
| - | - | I001 | - |
| Total Cadmium (Cd) | ppm | N.D. | 100 |
| Conclusion | - | PASS | - |

| Parameter | Unit | Result | Requirement by Client |
|--------------------|------|----------------|-----------------------|
| - | - | I002+I003+I004 | - |
| Total Cadmium (Cd) | ppm | N.D. | 100 |
| Conclusion | - | PASS | - |

| Parameter | Unit | Result | Requirement by Client |
|--------------------|------|----------------|-----------------------|
| - | - | 1005+1006+1007 | - |
| Total Cadmium (Cd) | ppm | N.D. | 100 |
| Conclusion | - | PASS | - |

| Parameter | Unit | Result | Requirement by Client |
|--------------------|------|----------------|-----------------------|
| - | - | 1008+1009+1010 | - |
| Total Cadmium (Cd) | ppm | N.D. | 100 |
| Conclusion | - | PASS | - |

| Parameter | Unit | Result | Requirement by Client |
|--------------------|------|----------------|-----------------------|
| - | - | I011+I012+I013 | - |
| Total Cadmium (Cd) | ppm | N.D. | 100 |
| Conclusion | - | PASS | - |

Note / Key:

ND = Not detected ">" = Greater than mg/kg = milligram(s) per kilogram = ppm = part(s) per million $10\ 000\ mg/kg = 1\ \%$ % = percent

Detection Limit (mg/kg): 10

No. = Number(s)



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TEST RESULTS

MIGRATION OF CERTAIN ELEMENTS

Test Method: European Standard EN 71 Part 3: 2019, Section 8.

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

| | Unit | Req. | Result |
|-----------------------|-------|--------|--------|
| Test Item(s) | - | - | 1001 |
| Type | - | III | III |
| Parameter | - | - | - |
| 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 | 0.053 | ND |
| Cobalt (Co) | mg/kg | 130 | ND |
| Copper (Cu) | mg/kg | 7700 | 4.3 |
| Lead (Pb) | mg/kg | 23 | 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 ">" = Greater thanReq. = Requirement INCON: Inconclusive g = gram(s)

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

[] = Detection Limit by test method with reference to EN 71 Part 3: 2019, Annex F

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 : 0.05 [0.002] ; Each (Others) : 2

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Remark:

- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The European Commission amended the maximum allowable limit(s) of migratable lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

| Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13: | | | | |
|---|----------------|----------------|----------------|--|
| - | Type I | Type II | Type III | |
| Element(s) | Aluminium (Al) | Aluminium (Al) | Aluminium (Al) | |
| Current | 5 625 mg/kg | 1 406 mg/kg | 70 000 mg/kg | |
| Proposed ^[b] | 2 250 mg/kg | 560 mg/kg | 28 130 mg/kg | |

[a] denotes as these maximum allowable limits apply from May 20, 2021 according to European Commission Directive (EU) 2019/1922 of 18 November 2019 amending, for the purposes of adaptation to technical and scientific developments, point 13 of part III of Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the Safety of Toys, as regards aluminium.



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TEST RESULTS

MIGRATION OF CERTAIN ELEMENTS

Test Method: European Standard EN 71 Part 3: 2019, Section 8.

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

| | Unit | Req. | | | | Result | | | |
|-----------------------|-------|-------|------|------|------|--------|------|------|------|
| Test Item(s) | - | - | 1002 | 1004 | 1005 | 1006 | 1007 | 1008 | 1009 |
| Type | - | I | I | I | I | I | I | I | I |
| Parameter | - | - | - | - | - | - | - | - | - |
| Aluminium (Al) | mg/kg | 5625 | ND | ND | ND | ND | ND | ND | ND |
| Antimony (Sb) | mg/kg | 45 | ND | ND | ND | ND | ND | ND | ND |
| Arsenic (As) | mg/kg | 3.8 | ND | ND | ND | ND | ND | ND | ND |
| Barium (Ba) | mg/kg | 1500 | ND | ND | 2.2 | ND | ND | ND | 2.2 |
| Boron (B) | mg/kg | 1200 | ND | ND | ND | ND | ND | ND | ND |
| Cadmium (Cd) | mg/kg | 1.3 | ND | 0.2 | ND | ND | ND | ND | ND |
| Chromium III (Cr III) | mg/kg | 37.5 | ND | ND | ND | ND | ND | ND | ND |
| Chromium VI (Cr VI) | mg/kg | 0.02 | ND | ND | ND | ND | ND | ND | ND |
| Cobalt (Co) | mg/kg | 10.5 | ND | ND | ND | ND | ND | ND | ND |
| Copper (Cu) | mg/kg | 622.5 | ND | ND | ND | ND | ND | ND | ND |
| Lead (Pb) | mg/kg | 2 | ND | ND | ND | ND | ND | ND | ND |
| Manganese (Mn) | mg/kg | 1200 | ND | ND | ND | ND | ND | ND | ND |
| Mercury (Hg) | mg/kg | 7.5 | ND | ND | ND | ND | ND | ND | ND |
| Nickel (Ni) | mg/kg | 75 | ND | ND | ND | ND | ND | ND | ND |
| Selenium (Se) | mg/kg | 37.5 | ND | ND | ND | ND | ND | ND | ND |
| Strontium (Sr) | mg/kg | 4500 | ND | ND | ND | ND | ND | ND | ND |
| Tin (Sn) | mg/kg | 15000 | ND | ND | ND | ND | ND | ND | ND |
| Organic tin | mg/kg | 0.9 | ND | ND | ND | ND | ND | ND | ND |
| Zinc (Zn) | mg/kg | 3750 | ND | ND | ND | ND | ND | ND | ND |
| Conclusion | - | - | PASS | PASS | PASS | PASS | PASS | PASS | PASS |

Note / Key:

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

[] = Detection Limit by test method with reference to EN 71 Part 3: 2019, Annex F

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 : 0.05 [0.002] ; Each (Others) : 2

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Remark:

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- The European Commission amended the maximum allowable limit(s) of migratable lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

| Proposals to | Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13: | | | | | |
|-------------------------|---|----------------|----------------|--|--|--|
| - | - Type II Type III | | | | | |
| Element(s) | Aluminium (Al) | Aluminium (Al) | Aluminium (Al) | | | |
| Current | 5 625 mg/kg | 1 406 mg/kg | 70 000 mg/kg | | | |
| Proposed ^[b] | 2 250 mg/kg | 560 mg/kg | 28 130 mg/kg | | | |

[a] denotes as these maximum allowable limits apply from May 20, 2021 according to European Commission Directive (EU) 2019/1922 of 18 November 2019 amending, for the purposes of adaptation to technical and scientific developments, point 13 of part III of Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the Safety of Toys, as regards aluminium.



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

| | Unit | Req. | | | Result | |
|-----------------------|-------|-------|------|------|--------|------|
| Test Item(s) | - | - | I010 | I011 | I012 | I013 |
| Type | - | I | I | I | I | I |
| Parameter | - | - | - | - | - | - |
| Aluminium (Al) | mg/kg | 5625 | ND | ND | ND | ND |
| Antimony (Sb) | mg/kg | 45 | ND | ND | ND | ND |
| Arsenic (As) | mg/kg | 3.8 | ND | ND | ND | ND |
| Barium (Ba) | mg/kg | 1500 | ND | ND | ND | ND |
| Boron (B) | mg/kg | 1200 | ND | ND | ND | ND |
| Cadmium (Cd) | mg/kg | 1.3 | ND | ND | ND | ND |
| Chromium III (Cr III) | mg/kg | 37.5 | ND | ND | ND | ND |
| Chromium VI (Cr VI) | mg/kg | 0.02 | ND | ND | ND | ND |
| Cobalt (Co) | mg/kg | 10.5 | ND | ND | ND | ND |
| Copper (Cu) | mg/kg | 622.5 | ND | ND | ND | ND |
| Lead (Pb) | mg/kg | 2 | ND | ND | ND | ND |
| Manganese (Mn) | mg/kg | 1200 | ND | ND | ND | ND |
| Mercury (Hg) | mg/kg | 7.5 | ND | ND | ND | ND |
| Nickel (Ni) | mg/kg | 75 | ND | ND | ND | ND |
| Selenium (Se) | mg/kg | 37.5 | ND | ND | ND | ND |
| Strontium (Sr) | mg/kg | 4500 | ND | ND | ND | ND |
| Tin (Sn) | mg/kg | 15000 | ND | ND | ND | ND |
| Organic tin | mg/kg | 0.9 | ND | ND | ND | ND |
| Zinc (Zn) | mg/kg | 3750 | ND | ND | ND | ND |
| Conclusion | - | - | PASS | PASS | PASS | PASS |

Note / Key:

ND = Not detected NR = Not requested ">" = Greater thanReq. = Requirement INCON: Inconclusive g = gram(s)

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

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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 : 0.05 [0.002] ; Each (Others) : 2

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Remark:

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- The European Commission amended the maximum allowable limit(s) of migratable lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

| Proposals to | Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13: | | | | | |
|-------------------------|---|----------------|----------------|--|--|--|
| - | - Type II Type III | | | | | |
| Element(s) | Aluminium (Al) | Aluminium (Al) | Aluminium (Al) | | | |
| Current | 5 625 mg/kg | 1 406 mg/kg | 70 000 mg/kg | | | |
| Proposed ^[b] | 2 250 mg/kg | 560 mg/kg | 28 130 mg/kg | | | |

[a] denotes as these maximum allowable limits apply from May 20, 2021 according to European Commission Directive (EU) 2019/1922 of 18 November 2019 amending, for the purposes of adaptation to technical and scientific developments, point 13 of part III of Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the Safety of Toys, as regards aluminium.



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TEST RESULTS

MIGRATION OF CERTAIN ELEMENTS

Test Method: European Standard EN 71 Part 3: 2019, Section 8.

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

Note / Key:

| | Unit | Req. | Result |
|-----------------------|-------|-------|--------|
| Test Item(s) | - | - | 1003 |
| Туре | - | I | I |
| Parameter | - | - | - |
| Aluminium (Al) | mg/kg | 5625 | ND |
| Antimony (Sb) | mg/kg | 45 | ND |
| Arsenic (As) | mg/kg | 3.8 | ND |
| Barium (Ba) | mg/kg | 1500 | ND |
| Boron (B) | mg/kg | 1200 | ND |
| Cadmium (Cd) | mg/kg | 1.3 | ND |
| Chromium III (Cr III) | mg/kg | 37.5 | 0.021 |
| Chromium VI (Cr VI) | mg/kg | 0.02 | ND |
| Cobalt (Co) | mg/kg | 10.5 | ND |
| Copper (Cu) | mg/kg | 622.5 | ND |
| Lead (Pb) | mg/kg | 2 | ND |
| Manganese (Mn) | mg/kg | 1200 | ND |
| Mercury (Hg) | mg/kg | 7.5 | ND |
| Nickel (Ni) | mg/kg | 75 | ND |
| Selenium (Se) | mg/kg | 37.5 | ND |
| Strontium (Sr) | mg/kg | 4500 | ND |
| Tin (Sn) | mg/kg | 15000 | ND |
| Organic tin | mg/kg | 0.9 | ND |
| Zinc (Zn) | mg/kg | 3750 | ND |
| Conclusion | - | - | PASS |

Req. = Requirement ND = Not detected ">" = Greater than

INCON: Inconclusive NR = Not requestedg = gram(s)

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

[] = 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 : 0.05 [0.002] ; Each (Others) : 2

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Remark:

- Result(s) of organic tin was (were) calculated by assuming the soluble tin content was wholly contributed from tributyltin (TBT) cation unless further specified.
- The European Commission amended the maximum allowable limit(s) of migratable lead of European Parliament and Council Directive 2009/48/EC in particular regarding to Annex II, Part III, Point 13. See details in Comment.

| Proposals to amendment of European Parliament and Council Directive 2009/48/EC, Annex II, Part III, Point 13: | | | | |
|---|----------------|----------------|----------------|--|
| - | Type I | Type II | Type III | |
| Element(s) | Aluminium (Al) | Aluminium (Al) | Aluminium (Al) | |
| Current | 5 625 mg/kg | 1 406 mg/kg | 70 000 mg/kg | |
| Proposed ^[b] | 2 250 mg/kg | 560 mg/kg | 28 130 mg/kg | |

[a] denotes as these maximum allowable limits apply from May 20, 2021 according to European Commission Directive (EU) 2019/1922 of 18 November 2019 amending, for the purposes of adaptation to technical and scientific developments, point 13 of part III of Annex II to Directive 2009/48/EC of the European Parliament and of the Council on the Safety of Toys, as regards aluminium.



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TEST RESULTS

CHROMIUM (VI) CONFIRMATION

: European Standard EN 71 Part 3: 2019, Section 8. **Test Method**

| Parameter | Unit | Results | Limit |
|---------------|-------|---------|-------|
| - | - | 1003 | |
| Chromium (VI) | mg/kg | ND | 0.02 |
| Conclusion | - | PASS | |

No. = Number(s)



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TEST RESULTS

PHTHALATES*

Test Method BV In-house Test Method CPSD-AN-00095-MTHD

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS)

or Liquid Chromatograph Mass Spectrometer (LC-MS).

Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg (Sum) (0.1 % (Sum)) Limit: Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))

| - | Results | | Conclusion | |
|----------------|-----------------------------------|------|------------|------|
| Tested Item(s) | Detected Analytes | Unit | Conclusion | |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | 162 | mg/kg | PASS |
| 1001 | Sum | 162 | mg/kg | PASS |
| 1001 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | Conclusion | | |
|----------------|-----------------------------------|------------|-------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1002 | Sum | - | mg/kg | PASS |
| 1002 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|-------|-------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1003 | Sum | - | mg/kg | PASS |
| 1003 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

Remark1:

ND = Not detected% = percent = 10000 mg/kg Detection Limit (mg/kg): Each 50; Sum 150 ">" = More than mg/kg = milligram per kilogram Conc. = Concentration

Remark2:

The list of phthalates is summarized in table of Appendix

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC

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TEST RESULTS

PHTHALATES*

Test Method: BV In-house Test Method CPSD-AN-00095-MTHD

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS)

or Liquid Chromatograph Mass Spectrometer (LC-MS).

Limit: Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))
Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))

| - | Results | | | Conclusion |
|----------------|-----------------------------------|----|-------|------------|
| Tested Item(s) | Detected Analytes Conc. Unit | | | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1004 | Sum | - | mg/kg | PASS |
| 1004 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|---------------------------|-------|------------|
| Tested Item(s) | Detected Analytes | ected Analytes Conc. Unit | | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1005 | Sum | - | mg/kg | PASS |
| 1005 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|-------|-------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1006 | Sum | - | mg/kg | PASS |
| 1000 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

Remark1: Note:

...

ND = Not detected % = percent = 10000 mg/kg Detection Limit (mg/kg): Each 50; Sum 150

">" = More than mg/kg = milligram per kilogram Conc. = Concentration

Remark2:

- The list of phthalates is summarized in table of Appendix

Remark3:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC

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TEST RESULTS

PHTHALATES*

Test Method: BV In-house Test Method CPSD-AN-00095-MTHD

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS)

or Liquid Chromatograph Mass Spectrometer (LC-MS).

Limit: Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))
Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))

| - | Results | | | Conclusion |
|----------------|-----------------------------------|----|-------|------------|
| Tested Item(s) | Detected Analytes Conc. Unit | | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1007 | Sum | - | mg/kg | PASS |
| 1007 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|--------------------------|-------|------------|
| Tested Item(s) | Detected Analytes | cted Analytes Conc. Unit | | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1008 | Sum | - | mg/kg | PASS |
| 1000 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|-------|-------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | 1 |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | 1 |
| 1009 | Sum | - | mg/kg | PASS |
| 1009 | DNOP (Di-n-octylphthalate) | ND | mg/kg | • |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | • |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | 1 |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

Remark1: Note:

) 1

ND = Not detected % = percent = 10000 mg/kg Detection Limit (mg/kg): Each 50; Sum 150

">" = More than mg/kg = milligram per kilogram Conc. = Concentration

Remark2:

- The list of phthalates is summarized in table of Appendix

Remark3:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC

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TEST RESULTS

PHTHALATES*

Test Method: BV In-house Test Method CPSD-AN-00095-MTHD

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS)

or Liquid Chromatograph Mass Spectrometer (LC-MS).

Limit: Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))
Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))

| - | Results | | Conclusion | |
|----------------|-----------------------------------|-------|------------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1010 | Sum | - | mg/kg | PASS |
| 1010 | DNOP (Di-n-octylphthalate) | ND | mg/kg | = |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|-----------------|-------|------------|
| Tested Item(s) | Detected Analytes | ytes Conc. Unit | | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1011 | Sum | - | mg/kg | PASS |
| 1011 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

| - | Results | | | Conclusion |
|----------------|-----------------------------------|-------|-------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| 1012 | Sum | - | mg/kg | PASS |
| 1012 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

Remark1:

Note:

ND = Not detected % = percent = 10000 mg/kg Detection Limit (mg/kg): Each 50; Sum 150

">" = More than mg/kg = milligram per kilogram Conc. = Concentration

Remark2:

- The list of phthalates is summarized in table of Appendix

Remark3:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC

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TEST RESULTS

PHTHALATES*

Test Method: BV In-house Test Method CPSD-AN-00095-MTHD

Solvent extraction and analysis by Gas Chromatograph Mass Spectrometer (GC-MS)

or Liquid Chromatograph Mass Spectrometer (LC-MS).

Limit: Sum of (DBP, BBP, DEHP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))
Sum of (DNOP, DIDP, DINP): Less than 1000 mg/kg (Sum) (0.1 % (Sum))

| - | Results | | Conclusion | |
|----------------|-----------------------------------|-------|------------|------------|
| Tested Item(s) | Detected Analytes | Conc. | Unit | Conclusion |
| | DBP (Dibutylphthalate) | ND | mg/kg | - |
| | BBP (Butylbenzylphthalate) | ND | mg/kg | - |
| | DEHP (Di(2-ethylhexyl)-phthalate) | ND | mg/kg | - |
| I013 | Sum | - | mg/kg | PASS |
| 1013 | DNOP (Di-n-octylphthalate) | ND | mg/kg | - |
| | DIDP (Diisodecylphthalate) | ND | mg/kg | - |
| | DINP (Di-iso-nonylphthalate) | ND | mg/kg | - |
| | Sum | - | mg/kg | PASS |
| | Overall Conclusion | - | - | PASS |

Remark1:

Note:

ND = Not detected % = percent = 10000 mg/kg Detection Limit (mg/kg): Each 50; Sum 150

">" = More than mg/kg = milligram per kilogram Conc. = Concentration

Remark2:

- The list of phthalates is summarized in table of Appendix

Remark3:

Recommended Max. limit specified by entries 51 and 52 of Regulation (EC) No 552/2009 amending Annex XVII of REACH Regulation (EC) No 1907/2006 (previously restricted under Directive 2005/84/EC

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TEST RESULTS

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)*

Test method: BV CPS In House Method, CPSD-AN-00090-MTHD ZEK - 01.4-08

| Parameter | Unit | | Results | | Requirements by Client |
|--------------------------|-------|------|---------|------|------------------------|
| - | - | I001 | 1002 | 1003 | |
| Benzo (a) pyrene | mg/kg | ND | ND | ND | |
| Benzo (e) pyrene | mg/kg | ND | ND | ND | |
| Benzo (a) anthracene | mg/kg | ND | ND | ND | |
| Chrysene | mg/kg | ND | ND | ND | |
| Benzo (b) fluoranthene | mg/kg | ND | ND | ND | 0.5 mg/kg |
| Benzo (j) fluoranthene | mg/kg | ND | ND | ND | |
| Benzo (k) fluoranthene | mg/kg | ND | ND | ND | |
| Dibenzo(a,h)anthracene | mg/kg | ND | ND | ND | |
| Sum | mg/kg | ND | ND | ND |] |
| Conclusion | - | PASS | PASS | PASS | - |

| Parameter | Unit | Results | | | Requirements by Client |
|------------------------|-------|---------|------|------|------------------------|
| - | - | 1004 | 1005 | 1006 | |
| Benzo (a) pyrene | mg/kg | ND | ND | ND | |
| Benzo (e) pyrene | mg/kg | ND | ND | ND | |
| Benzo (a) anthracene | mg/kg | ND | ND | ND | |
| Chrysene | mg/kg | ND | ND | ND | |
| Benzo (b) fluoranthene | mg/kg | ND | ND | ND | 0.5 mg/kg |
| Benzo (j) fluoranthene | mg/kg | ND | ND | ND | |
| Benzo (k) fluoranthene | mg/kg | ND | ND | ND | |
| Dibenzo(a,h)anthracene | mg/kg | ND | ND | ND | |
| Sum | mg/kg | ND | ND | ND | |
| Conclusion | - | PASS | PASS | PASS | - |

ND: NOT DETECTED ">" = Greater than Req. = Requirement

INCON. = Inconclusive NR = Not requested g = gram(s)

 $mg/kg = milligram(s) \ per \ kilogram = ppm = part(s) \ per \ million$ Detection Limit (mg/kg) : Each : 0.2; Sum : 0.2

Remark: - The list of list of Polynuclear Aromatic Hydrocarbons are summarized in table of Appendix.



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TEST RESULTS

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)*

Test method: BV CPS In House Method, CPSD-AN-00090-MTHD ZEK - 01.4-08

| Parameter | Unit | Results | | | Requirements by Client |
|--------------------------|-------|---------|------|------|------------------------|
| - | - | 1007 | 1008 | 1009 | |
| Benzo (a) pyrene | mg/kg | ND | ND | ND | |
| Benzo (e) pyrene | mg/kg | ND | ND | ND | |
| Benzo (a) anthracene | mg/kg | ND | ND | ND | |
| Chrysene | mg/kg | ND | ND | ND | 0.5 mg/kg |
| Benzo (b) fluoranthene | mg/kg | ND | ND | ND | |
| Benzo (j) fluoranthene | mg/kg | ND | ND | ND | |
| Benzo (k) fluoranthene | mg/kg | ND | ND | ND | |
| Dibenzo(a,h)anthracene | mg/kg | ND | ND | ND | |
| Sum | mg/kg | ND | ND | ND |] |
| Conclusion | - | PASS | PASS | PASS | - |

| Parameter | Unit | Results | | | Requirements by Client |
|--------------------------|-------|---------|------|------|------------------------|
| - | - | I010 | I011 | I012 | |
| Benzo (a) pyrene | mg/kg | ND | ND | ND | |
| Benzo (e) pyrene | mg/kg | ND | ND | ND | |
| Benzo (a) anthracene | mg/kg | ND | ND | ND | |
| Chrysene | mg/kg | ND | ND | ND | 0.5 mg/kg |
| Benzo (b) fluoranthene | mg/kg | ND | ND | ND | |
| Benzo (j) fluoranthene | mg/kg | ND | ND | ND | |
| Benzo (k) fluoranthene | mg/kg | ND | ND | ND | |
| Dibenzo(a,h)anthracene | mg/kg | ND | ND | ND | |
| Sum | mg/kg | ND | ND | ND | |
| Conclusion | - | PASS | PASS | PASS | _ |

ND: NOT DETECTED ">" = Greater than Req. = Requirement

INCON. = Inconclusive NR = Not requested g = gram(s)

mg/kg = milligram(s) per kilogram = ppm = part(s) per million Detection Limit (mg/kg) : Each : 0.2; Sum : 0.2

Remark: - The list of list of Polynuclear Aromatic Hydrocarbons are summarized in table of Appendix.

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TEST RESULTS

POLYCYCLIC AROMATIC HYDROCARBONS (PAHs)*

Test method: BV CPS In House Method, CPSD-AN-00090-MTHD ZEK - 01.4-08

| Parameter | Unit | Results | Requirements by Client |
|--------------------------|-------|---------|------------------------|
| - | - | I013 | |
| Benzo (a) pyrene | mg/kg | ND | |
| Benzo (e) pyrene | mg/kg | ND | |
| Benzo (a) anthracene | mg/kg | ND | 0.5 mg/kg |
| Chrysene | mg/kg | ND | |
| Benzo (b) fluoranthene | mg/kg | ND | |
| Benzo (j) fluoranthene | mg/kg | ND | |
| Benzo (k) fluoranthene | mg/kg | ND | |
| Dibenzo(a,h)anthracene | mg/kg | ND | |
| Sum | mg/kg | ND | |
| Conclusion | - | PASS | - |

ND: NOT DETECTED ">" = Greater thanReq. = Requirement

INCON. = Inconclusive NR = Not requested g = gram(s)

mg/kg = milligram(s) per kilogram = ppm = part(s) per million Detection Limit (mg/kg) : Each : 0.2; Sum : 0.2

Remark: - The list of list of Polynuclear Aromatic Hydrocarbons are summarized in table of Appendix.

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APPENDIX A

| | 111 1 11 (11 11 11 | |
|----------------------------|------------------------------------|-------------------------|
| TEST NAME | STANDARD NAME | MEASUREMENT UNCERTAINTY |
| Polybag /Plastic Thickness | EN 71-1 4.3, 5.3 & 6, 8.25.1 | ±12,2 % |
| Sheeting Measurement | | |
| Yo-Yo Ball Test | EN 71-1 part 4.24, 8.37.1 6 8.37.2 | ±2,8 % |
| Torque Test | EN 71-1 part 8.3 | ±15,7 % |
| Perimeter of Toys | EN 71-1 part 8.36 | ±1,2 % |
| Tension Test | EN 71-1 part 8.4 | ±18,1 % |
| Kinetic Energy Test | EN 71-1 part 8.24 | ±0,9 % |
| Soft Filled Toys | EN 71-2 part 4.5 | ±6,97 % |
| Heavy Metal | DIN EN 71 Part 3 | ± %9 |
| | BS EN 71: Part 3 | ± %9 |

APPENDIX B

| TEST NAME | STANDARD NAME | MEASUREMENT UNCERTAINTY |
|------------|----------------------|-------------------------|
| Phthalates | In-house test method | ± 0.16 x result |
| | CPSD-AN-00095-MTHD | |

| List of Phthalates: | | | | | | |
|---------------------|--------------------------------------|----------|-----|------------------------------|------------|--|
| No. | Name of Analytes | CAS-No. | No. | Name of Analytes | CAS-No. | |
| 1 | Butylbenzylphthalate (BBP) | 85-68-7 | 5 | Di-iso-nonylphthalate (DINP) | 28553-12-0 | |
| 2 | Dibutylphthalate (DBP) | 84-74-2 | 6 | Diisodecylphthalate (DIDP) | 26761-40-0 | |
| 3 | Di(2-ethylhexyl)-phthalate (DEHP) | 117-81-7 | 7 | - | - | |
| 4 | Di-n-octylphthalate (DNOP) | 117-84-0 | - | - | - | |

APPENDIX C

| No. | Name of Analytes | CAS-No. |
|-----|--------------------------|----------|
| 1 | Benzo (a) anthracene | 56-55-3 |
| 2 | Chrysene | 218-01-9 |
| 3 | Benzo (a) pyrene | 50-32-8 |
| 4 | Benzo (e) pyrene | 192-97-2 |
| 5 | Dibenzo (a,h) anthracene | 53-70-3 |
| 6 | Benzo (b) fluoranthene | 205-99-2 |
| 7 | Benzo (k) fluoranthene | 207-08-9 |
| 8 | Benzo (j) fluoranthene | 205-82-3 |

APPENDIX D

| TEST NAME | STANDARD NAME | MEASUREMENT UNCERTAINTY |
|-----------------------|--------------------|-------------------------|
| Total Cadmium Content | BS EN 1122 | ± %3 |
| | CPSD-AN-00004-MTHD | |

-END OF REPORT-

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