



Test Report

No.: QDTYR140700279TS

Date: AUG 5, 2014

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American Society for Testing and Materials –ASTM F 963-11 – soluble heavy metal in Substrate Materials/paint and similar surface-coating materials

Test Method : Soluble Heavy Metal contents (Clause 4.3.5) - Sample was extracted by dilute hydrochloric acid in accordance with ASTM F 963-11(Clause 8.3), analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | <u>002</u> | <u>003</u> |
|-----------------------|--------------|-------------|------------|-------------|-------------|-------------|
| Soluble Lead (Pb) | 90 | mg/kg | 5 | ND | ND | ND |
| Soluble Antimony (Sb) | 60 | mg/kg | 5 | ND | ND | ND |
| Soluble Arsenic (As) | 25 | mg/kg | 2.5 | ND | ND | ND |
| Soluble Barium (Ba) | 1000 | mg/kg | 10 | ND | ND | ND |
| Soluble Cadmium (Cd) | 75 | mg/kg | 5 | ND | ND | ND |
| Soluble Chromium (Cr) | 60 | mg/kg | 5 | ND | ND | ND |
| Soluble Mercury (Hg) | 60 | mg/kg | 5 | ND | ND | ND |
| Soluble Selenium (Se) | 500 | mg/kg | 10 | ND | ND | ND |
| Conclusion | | | | PASS | PASS | PASS |

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> | <u>005</u> |
|-----------------------|--------------|-------------|------------|-------------|-------------|
| Soluble Lead (Pb) | 90 | mg/kg | 5 | ND | ND |
| Soluble Antimony (Sb) | 60 | mg/kg | 5 | ND | ND |
| Soluble Arsenic (As) | 25 | mg/kg | 2.5 | ND | ND |
| Soluble Barium (Ba) | 1000 | mg/kg | 10 | ND | ND |
| Soluble Cadmium (Cd) | 75 | mg/kg | 5 | ND | ND |
| Soluble Chromium (Cr) | 60 | mg/kg | 5 | ND | ND |
| Soluble Mercury (Hg) | 60 | mg/kg | 5 | ND | ND |
| Soluble Selenium (Se) | 500 | mg/kg | 10 | ND | ND |
| Conclusion | | | | PASS | PASS |

Notes :

(1)Result of eight migration elements shown are of the adjusted analytical results

American Society for Testing and Materials -ASTM F 963-11 - total Lead in Substrate Materials

Test Method : With reference to CPSC Test Method: CPSC-CH-E1002-08.1. Analysis was performed by ICP-OES.

| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>001</u> | <u>002</u> | <u>003</u> |
|---------------------|--------------|-------------|------------|-------------|-------------|-------------|
| Total Lead (Pb) | 100 | mg/kg | 10 | ND | 11 | ND |
| Conclusion | | | | PASS | PASS | PASS |





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Result:

ASTM F963-11 STANDARD CONSUMER SAFETY SPECIFICATION FOR TOY SAFETY

AS SPECIFIED IN ASTM F963-11 STANDARD CONSUMER SAFETY SPECIFICATION ON TOYS SAFETY

Clauses relevant to the item:

| <u>Clause</u> | <u>Description</u> | <u>Result</u> |
|---------------|--|---|
| 4 | Safety Requirements | |
| 4.1 | Material Quality **..... | <u>Pass</u> |
| 4.2 | Flammability Test..... | <u>Pass (See Detail of test result)</u> |
| 4.3 | Toxicology | |
| 4.3.5 | Heavy Elements | |
| | 4.3.5.1 Heavy Elements in Paint/Similar Surface Coating Materials..... | <u>N/A</u> |
| | 4.3.5.2 Heavy Metal in Substrate Materials..... | <u>Pass (See Detail of test result)</u> |
| 4.7 | Accessible Edges..... | <u>Pass</u> |
| 4.9 | Accessible Points..... | <u>Pass</u> |
| 5 | Safety Labeling Requirements | |
| 5.2 | Age Grading Labeling..... (Remark 1: The product or package should indicate the minimum age for intended use.) | <u>See Remark 1</u> |
| 7 | Producer's Markings | |
| 7.1 | Producer's Markings..... (Remark 2: It is drawn to your attention that either a principal component of a toy or the package of a toy shall be marked with the name and address of the producer or the distributor.) | <u>See Remark 2</u> |
| 8.5 | Normal Use Testing..... | <u>Pass</u> |
| 8.7 | Impact Test..... | <u>Pass</u> |
| 8.8 | Torque Test..... | <u>Pass</u> |
| 8.9 | Tension Test..... | <u>Pass</u> |

Detail of test result:

Flammability Test (Clause 4.2)
Flammability Test on Solid

Sample
Chalk-white/blue/yellow/green/red

Burning Rate (inch/sec)
DNI

DNI = Did Not Ignite





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| <u>Test Item(s)</u> | <u>Limit</u> | <u>Unit</u> | <u>MDL</u> | <u>004</u> | <u>005</u> |
|---------------------|--------------|-------------|------------|-------------|-------------|
| Total Lead (Pb) | 100 | mg/kg | 10 | ND | ND |
| Conclusion | | | | PASS | PASS |

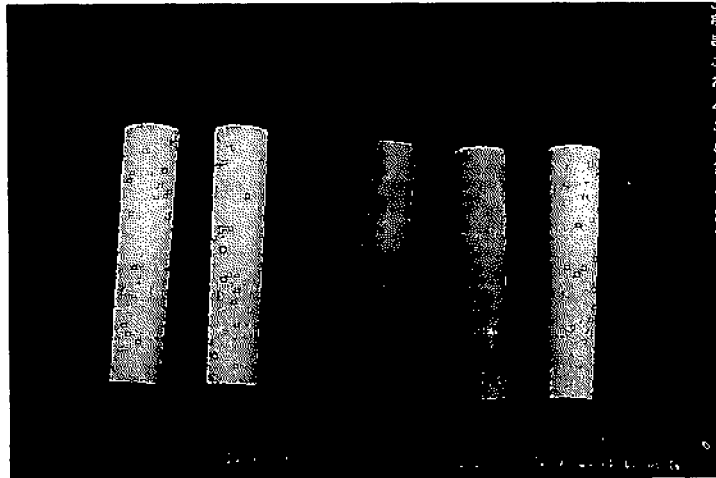
Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|---------------------|----------------------|--------------------|
| SN1 | TAO14-029156.001 | White chalk |
| SN2 | TAO14-029156.002 | Green chalk |
| SN3 | TAO14-029156.003 | Blue chalk |
| SN4 | TAO14-029156.004 | Red chalk |
| SN5 | TAO14-029156.005 | Yellow chalk |

Remarks :

- (1) 1 mg/kg = 0.0001%
- (2) MDL = Method Detection Limit
- (3) ND = Not Detected (< MDL)
- (4) "-" = Not Regulated

Sample Photo:



SGS authenticate the photo on original report only

*** End of Report ***

