



Test Report

No.T52310250723TC

Date: MAR 02, 2023

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DONGGUAN JIAN PLASTIC & METAL PRODUCTS LTD.
NO. 6, GAOBU BLVD; GAOBU TOWN, DONGGUAN CITY,
GUANGDONG PROVINCE, CHINA 523278

The following samples were submitted and identified by/on behalf of the client as:

SOFT PVC, ATBC PVC MATERIAL

Buyer : WORLD WIDE
 Manufacturer : CHINA
 Country of Origin : CHINA
 Country Of Destination : WORLD WIDE
 Requested Age Grading : 3+

Sample Receiving Date : FEB 16, 2023
 Testing Period : FEB 16, 2023 TO MAR 02, 2023



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SGS-CSTC Standards Technical Services Co., Ltd.
 Shenzhen Branch Testing Center Hardlines

Room 101-901, Plant 4 & Room 101, Plant 2 & Room 101, Plant 3 & Room 301-501, Plant 3, Jianghao (Bantian) Industrial Plant Area, No.430, Jilua Road, Bantian Community, Bantian Street, Longgang District, Shenzhen, Guangdong, China 518129 www.sgs.com.cn
 中国·广东·深圳市龙岗区坂田街道坂田社区吉华路430号江灏(坂田)工业厂区厂房4号 101-901、2号101、3号301-501 邮编: 518129 t:(86-755) 25328888 sgs.china@sgs.com

Member of the SGS Group (SGS SA)

Selected test(s) as requested by the client, please refer to test result page(s) for details:

| Test Requested | Conclusion |
|---|-----------------------------|
| 1. Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019 + A1:2021 – Migration of certain elements | PASS |
| 2. ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content | -- |
| Heavy Elements content in paint or similar surface coating materials in submitted sample in accordance with ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.1 | NOT APPLICABLE (SEE REMARK) |
| Heavy Elements content in substrate materials in submitted sample in accordance with ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety, Clause 4.3.5.2 | PASS |

Remark: There were no surface coating found in the said submitted sample.

***** FOR FURTHER DETAILS, PLEASE REFER TO THE FOLLOWING PAGE(S) *****

Signed for and on behalf of
 SGS-CSTC Standards Technical
 Services Co., Ltd. Shenzhen Branch Testing Center



Qu Ping, Kiky
 Dept. Manager



Results:

Directive 2009/48/EC and its amendment Council Directive (EU) 2017/738, Commission Directive (EU) 2018/725, Commission Directive (EU) 2019/1922 – EN 71-3:2019+A1:2021 – Migration of certain elements

Category III: Scraped-off toy material

Method: With reference to EN 71-3:2019+A1:2021. Analysis of general elements was performed by ICP-OES / Chromium (III) was obtained by calculation, chromium (VI) was analyzed by IC-UV-Vis or LC-ICP-MS / organic tin was analyzed by GC-MS.

| Test Item(s) | Result(s) | MDL | Permissible Limit |
|---|-----------|-------|-------------------|
| Specimen No. | 1 | -- | -- |
| Mass of trace amount (mg) | / | -- | -- |
| Soluble Aluminium (Al) (mg/kg) | ND | 50 | 28130 |
| Soluble Antimony (Sb) (mg/kg) | ND | 10 | 560 |
| Soluble Arsenic (As) (mg/kg) | ND | 10 | 47 |
| Soluble Barium (Ba) (mg/kg) | ND | 50 | 18750 |
| Soluble Boron (B) (mg/kg) | ND | 50 | 15000 |
| Soluble Cadmium (Cd) (mg/kg) | ND | 5 | 17 |
| Soluble Chromium+ (Cr) (mg/kg) | ND | 1 | -- |
| Soluble Chromium (III) (Cr (III)) (mg/kg) | ND | 1 | 460 |
| Soluble Chromium (VI) (Cr (VI)) (mg/kg) | ND | 0.010 | 0.053 |
| Soluble Cobalt (Co) (mg/kg) | ND | 10 | 130 |
| Soluble Copper (Cu) (mg/kg) | ND | 50 | 7700 |
| Soluble Lead (Pb) (mg/kg) | ND | 2.3 | 23 |
| Soluble Manganese (Mn) (mg/kg) | ND | 50 | 15000 |
| Soluble Mercury (Hg) (mg/kg) | ND | 10 | 94 |
| Soluble Nickel (Ni) (mg/kg) | ND | 10 | 930 |
| Soluble Selenium (Se) (mg/kg) | ND | 10 | 460 |
| Soluble Strontium (Sr) (mg/kg) | ND | 50 | 56000 |
| Soluble Tin (Sn) (mg/kg) | ND | 3.0 | 180000 |
| Soluble Organic Tin -- (mg/kg) | ND | -- | 12 |
| Soluble Zinc (Zn) (mg/kg) | ND | 50 | 46000 |

Specimen Description:

1. Blue-grey soft plastic



- Note:
- mg/kg = milligram per kilogram
 - mg = milligram
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - 1% = 10000 mg/kg = 10000 ppm
 - + Soluble Chromium is not restricted by EN 71-3:2019+A1:2021, results shown only for reference

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- * = Exceeds Permissible Limit

ASTM F963-17, Clause 4.3.5.2 – Heavy Elements in Substrate Materials

Method: With reference to CPSC-CH-E1002-08.3 / CPSC-CH-E1001-08.3 / ASTM F963-17 Clause 8.3 / CPSC-CH-E1004-11

Analysis was performed by Inductively Coupled Plasma Optical Emission Spectrometer (ICP-OES)/ Inductively Coupled Plasma Mass Spectrometer (ICP-MS)

Soluble Heavy Metal Content

| Test Item(s) | | | | Pb | Sb | As | Ba | Cd | Cr | Hg | Se |
|--|-----------|-------------|---------------------------|------------------------------------|----|-----|------|----|----|----|-----|
| MDL (ppm) | | | | 5 | 5 | 2.5 | 10 | 5 | 5 | 5 | 10 |
| Migration Limit (ppm) -- Other Than Modeling Clays | | | | 90 | 60 | 25 | 1000 | 75 | 60 | 60 | 500 |
| Migration Limit (ppm) -- Modeling Clays | | | | 90 | 60 | 25 | 250 | 50 | 25 | 25 | 500 |
| Specimen No. | Alias No. | Tracing No. | Mass of trace amount (mg) | Adjusted Migration Result(s) (ppm) | | | | | | | |
| 1 | 3 | 1 | / | ND | ND | ND | ND | ND | ND | ND | ND |

Specimen Description:

1. Blue-grey soft plastic

- Note:
- ppm = parts per million
 - µg/component = microgramme per component
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit = 10 ppm
 - 1% = 10000 mg/kg = 10000 ppm

The below note(s) is(are) applicable in case the relevant superscript(s) and symbol(s) was(were) shown in the result table:

- + Composite test has been performed as per client's request and the results are calculated using the minimum specimen weight



Remark 1: Since the data and / or information above division line of front page is provided by the applicant, the relevant results or conclusions of this report are only made for these data and / or information, SGS shall not be responsible for the authenticity and integrity of such data and information and the validity of the results and / or conclusions arising therefrom. Testing results only apply to the sample as received.

Remark 2: The statement of conformity has considered the decision rule based on the Guarded acceptance (8.3.2 of ISO/IEC GUIDE 98-4:2012)- When the measured value falls within the guard band, only the test data and measurement uncertainty will be reported. The guard band is equal to the expanded measurement uncertainty with a 95% coverage probability($k=2$), $w = U_{95}$. The Probability of False Accept and the Probability of False Reject of the decision rule are 2.5%.

For Upper Tolerance Limit (T_U):

Pass - when the measurement result is below $T_U - U_{95}$

Fail - when the measurement result is above $T_U + U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_U - U_{95}, T_U + U_{95}]$

For Lower Tolerance Limit (T_L):

Pass - when the measurement result is above $T_L + U_{95}$

Fail - when the measurement result is below $T_L - U_{95}$

Inconclusive - when the measurement result is falling in guard band $[T_L - U_{95}, T_L + U_{95}]$

Sample Picture (As received)

Pic.1



SGS authenticate the photo on original report only

*** End of Report ***

