



Test Report

No.T52210260877TC

Date: APR 17, 2022

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GUANGXI JINGUI PULP&PAPER CO.,LTD.
SINAR MAS INDUSTRIAL PARK, QINZHOU HARBOR,
QINZHOU CITY, GUANGXI

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

C1S IVORY BOARD

Batch : A2231538
 Production Date : 2022.03.15
 Manufacturer : GUANGXI JINGUI PULP&PAPER CO.,LTD.
 Requested Age Grading : 3+

SGS Ref. No. : GZF22-010036
 Sample Receiving Date : APR 11, 2022
 Testing Period : APR 11, 2022 TO APR 17, 2022



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 Shenzhen Branch Testing Center Hardlines

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| 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 (All conclusive testing) | PASS |
| 2. ASTM F963-17 - Standard Consumer Safety Specification on Toy Safety – Heavy Elements content (Selected test items as specified by the applicant, please refer to test result page(s) for details) | -- |
| 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 |

***** 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



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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.

| Test Item(s) | Result(s) | MDL | Permissible Limit |
|--|-----------|-------|-------------------|
| Specimen No. | 1 | -- | -- |
| Mass of trace amount (mg) | / | -- | -- |
| Soluble Aluminium (Al) (mg/kg) | 159 | 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 |



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Specimen Description:

- 1. White surfaced cream paper card

- 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

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

Method: With reference to ASTM F963-17 Clause 8.3

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

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. White surfaced cream paper card

- Note:
- ppm = parts per million
 - 1% = 10000 mg/kg = 10000 ppm = 10000 µg/g
 - ND = Not Detected (lower than MDL)
 - MDL = Method Detection Limit
 - Migration results of eight elements shown are of the adjusted analytical results
 - For Soluble Heavy Metal Content : The decision rule has prescribed in the regulation or standard, conformity reporting will base on the standard.



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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 $[T_U - U_{95}, T_U + U_{95}]$

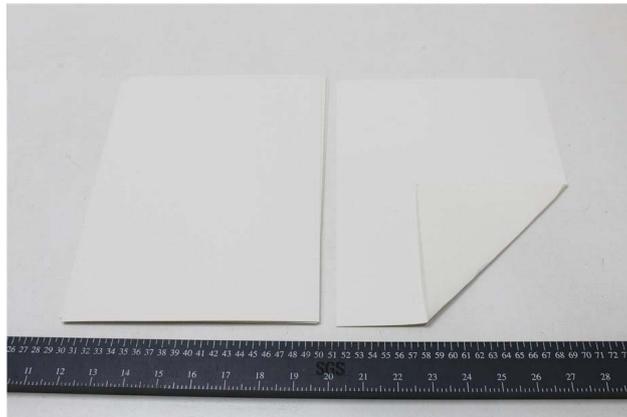
For Lower Tolerance Limit (T_L):

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 Photo:



SGS authenticate the photo on original report only

*** End of Report ***

