



## Test Report

No.: GZHL2403007655PA

Date: Mar 15, 2024

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NINE DRAGONS INTELLIGENT PACKAGING (DONGGUAN) CO., LTD.  
NINE DRAGONS PAPER 11 GATE, RUNFENG ROAD, MACHONG VILLAGE, DONGGUAN

Sample Description : CORRUGATED FIBERBOARD

As above test item and its relevant information regarding to the submission are provided and confirmed by the applicant. SGS is not liable to either the test item or its relevant information, in terms of the accuracy, suitability, reliability or/and integrity accordingly.

\*\*\*\*\*

SGS Ref No. : CAN24-0040178

Sample Receiving Date : Mar 07, 2024

Test Performing Date : Mar 08, 2024 to Mar 15, 2024

Test Performed : Selected test(s) as requested by applicant

Test Result(s) : For further details, please refer to the following page(s)

|   | Test Requirement                                                                                                                                                                                                                                                                                                          | Conclusion |
|---|---------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------|
| 1 | EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP) | Pass       |

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

Joan Huang

Joan Huang  
Authorized Signatory



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## Test Result(s):

### Test Part Description:

| SN ID | Sample No. | SGS Sample ID           | Description                  |
|-------|------------|-------------------------|------------------------------|
| SN1   | A1         | CAN24-0040178-0001.C001 | Brown corrugated paper board |

### Remarks:

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

**EU RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU - Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBB), Polybrominated diphenyl ethers (PBDE), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)**

Test Method: With reference to IEC 62321-4:2013+AMD1:2017, IEC 62321-5:2013, IEC 62321-7-2:2017, IEC 62321-6:2015 and IEC 62321-8:2017, analysis was performed by ICP-OES/AAS, UV-Vis and GC-MS.

| Test Item(s)                              | Limit | Unit(s) | MDL | A1 |
|-------------------------------------------|-------|---------|-----|----|
| Lead (Pb)                                 | 1000  | mg/kg   | 2   | 5  |
| Mercury (Hg)                              | 1000  | mg/kg   | 2   | ND |
| Cadmium (Cd)                              | 100   | mg/kg   | 2   | ND |
| Hexavalent Chromium (Cr(VI))              | 1000  | mg/kg   | 8   | ND |
| Polybromobiphenyl (PBB)                   | 1000  | mg/kg   | -   | ND |
| Monobrominated biphenyl (MonoBB)          | -     | mg/kg   | 5   | ND |
| Dibrominated biphenyl (DiBB)              | -     | mg/kg   | 5   | ND |
| Tribrominated biphenyl (TriBB)            | -     | mg/kg   | 5   | ND |
| Tetrabrominated biphenyl (TetraBB)        | -     | mg/kg   | 5   | ND |
| Pentabrominated biphenyl (PentaBB)        | -     | mg/kg   | 5   | ND |
| Hexabrominated biphenyl (HexaBB)          | -     | mg/kg   | 5   | ND |
| Heptabrominated biphenyl (HeptaBB)        | -     | mg/kg   | 5   | ND |
| Octabrominated biphenyl (OctaBB)          | -     | mg/kg   | 5   | ND |
| Nonabrominated biphenyl (NonaBB)          | -     | mg/kg   | 5   | ND |
| Decabrominated biphenyl (DecaBB)          | -     | mg/kg   | 5   | ND |
| Polybromodiphenyl ether (PBDE)            | 1000  | mg/kg   | -   | ND |
| Monobrominated diphenyl ether (MonoBDE)   | -     | mg/kg   | 5   | ND |
| Dibrominated diphenyl ether (DiBDE)       | -     | mg/kg   | 5   | ND |
| Tribrominated diphenyl ether (TriBDE)     | -     | mg/kg   | 5   | ND |
| Tetrabrominated diphenyl ether (TetraBDE) | -     | mg/kg   | 5   | ND |
| Pentabrominated diphenyl ether (PentaBDE) | -     | mg/kg   | 5   | ND |
| Hexabrominated diphenyl ether (HexaBDE)   | -     | mg/kg   | 5   | ND |



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| Test Item(s)                              | Limit | Unit(s) | MDL | A1 |
|-------------------------------------------|-------|---------|-----|----|
| Heptabrominated diphenyl ether (HeptaBDE) | -     | mg/kg   | 5   | ND |
| Octabrominated diphenyl ether (OctaBDE)   | -     | mg/kg   | 5   | ND |
| Nonabrominated diphenyl ether (NonaBDE)   | -     | mg/kg   | 5   | ND |
| Decabrominated diphenyl ether (DecaBDE)   | -     | mg/kg   | 5   | ND |
| Bis(2-ethylhexyl) phthalate (DEHP)        | 1000  | mg/kg   | 50  | ND |
| Butyl benzyl phthalate (BBP)              | 1000  | mg/kg   | 50  | ND |
| Dibutyl phthalate (DBP)                   | 1000  | mg/kg   | 50  | ND |
| Diisobutyl phthalate (DIBP)               | 1000  | mg/kg   | 50  | ND |

**Notes:**

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.

(2) IEC 62321 series is equivalent to EN 62321 series.

(3) The restriction of DEHP, BBP, DBP and DIBP shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 July 2021.

Unless otherwise stated, the decision rule for conformity reporting is based on Binary Statement for Simple Acceptance Rule ( $w=0$ ) stated in ILAC-G8:09/2019.



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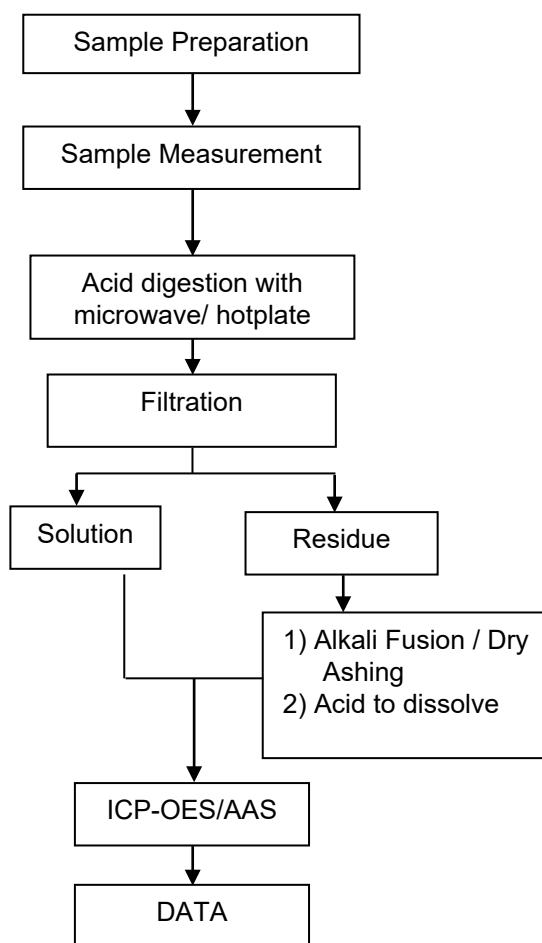
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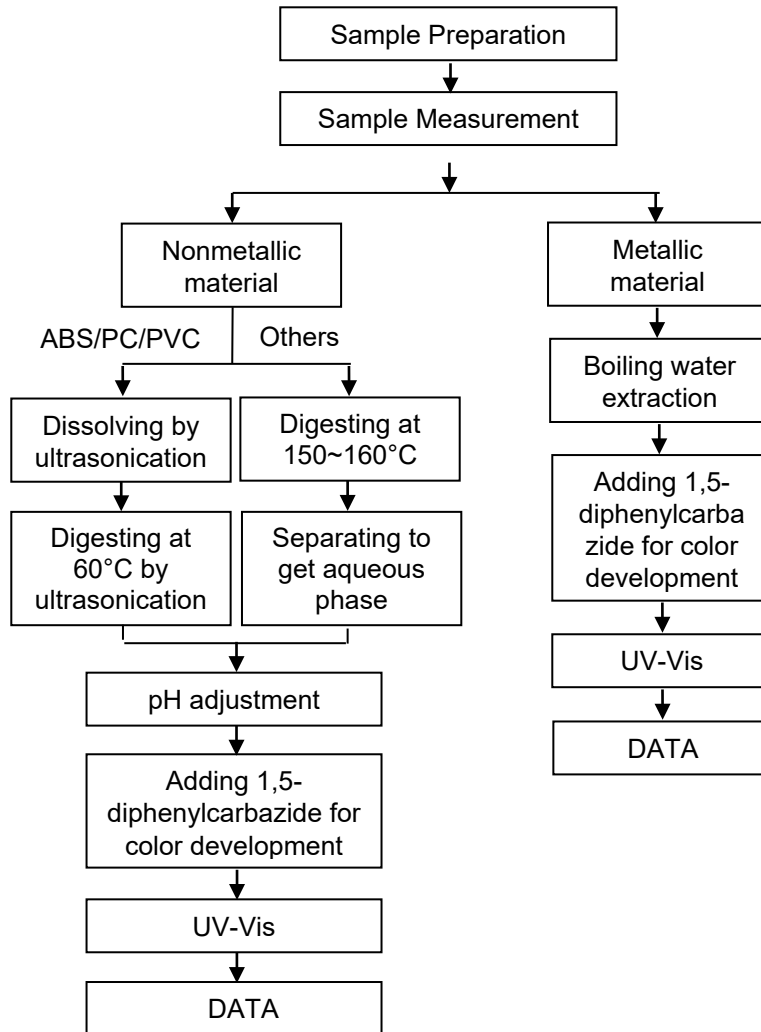
#### Elements Testing Flow Chart

These samples were dissolved totally by pre-conditioning method according to below flow chart.



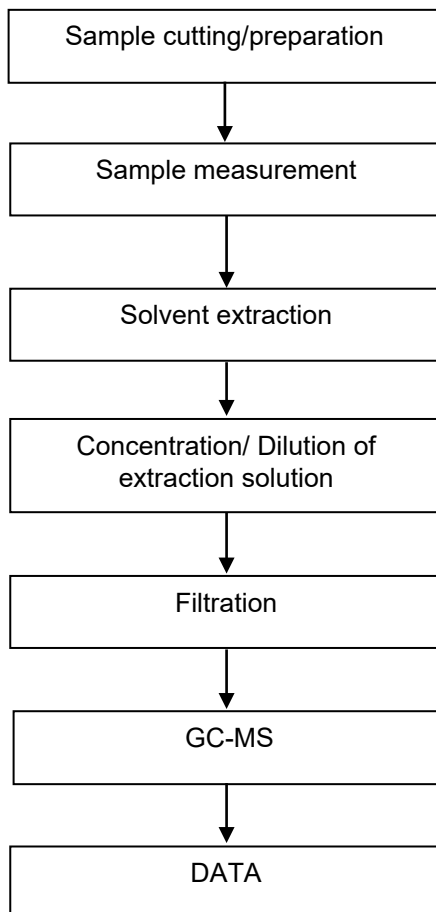
### ATTACHMENTS

#### Hexavalent Chromium (Cr(VI)) Testing Flow Chart



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#### PBB/PBDE Testing Flow Chart



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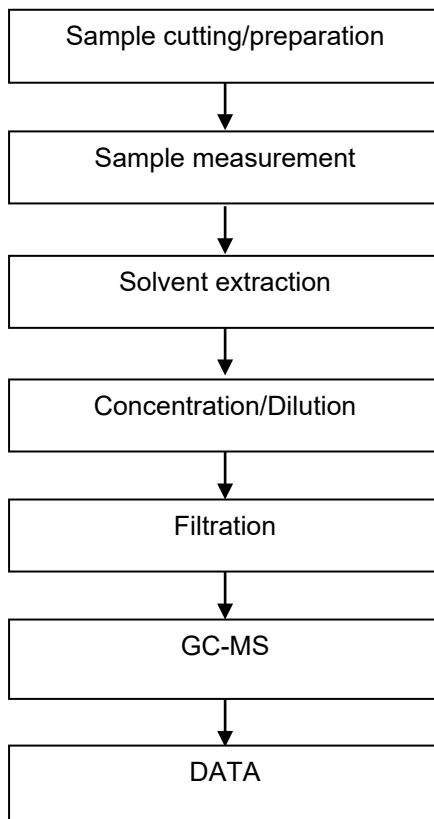
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#### Phthalates Testing Flow Chart



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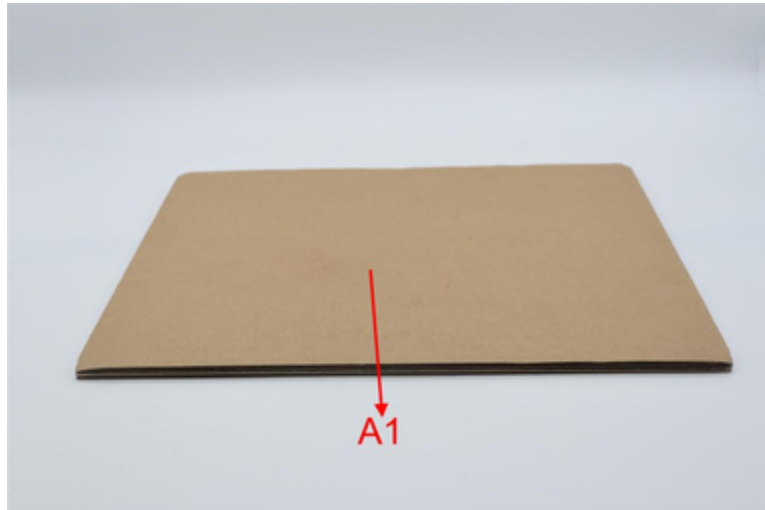
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### Sample Photo:



\*\*\* End of Report \*\*\*



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