Test Report
No．：NGBEC24000786403
Date：Mar 01， 2024
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Client Name：KONFOONG MATERIALS INTERNATIONAL CO．，LTD
Client Address：NO． 198 ANSHAN RD．，MINGBANG TECH．\＆INDUSTRY PARK，YUYAO，ZHEJIANG，P．R．C

## Sample Name：WTI Target

The above samples）and information were provided by the client．

SGS Job No．：
Sample Receiving Date：
Testing Period：
Test Requested：
Test Methods）：
Test Results）：

NBP24－000771
Feb 23， 2024
Feb 23， 2024 ～Mar 01， 2024
Select tests）as requested by the client．
Please refer to next page（s）．
Please refer to next pages）．

| Test Requirement | Conclusion |
| :--- | :---: |
| Halogen | See Results |
| Elements | See Results |
| Perfluorinated Compounds（PFC） | See Results |
| Phthalates | See Results |
| EU RoHS Directive（EU）2015／863 amending Annex II to Directive <br> 2011／65／EU－Lead，Mercury，Cadmium，Hexavalent chromium，Polybrominated <br> biphenyls（PBBs），Polybrominated diphenyl ethers（PBDEs），Bis（2－ethylhexyl） <br> phthalate（DEHP），Butyl benzyl phthalate（BBP），Dibutyl phthalate（DBP）and <br> Diisobutylphthalate（DIBP） | Pass |

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


Kell＿Li
Approved Signatory


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## Test Result（s）：

Test Part Description：

| SN ID | Sample No． | SGS Sample ID | Description |
| :---: | :---: | :---: | :---: |
| SN1 | A1 | NGB24－0007864－0001．C001 | Silvery metal |

Remarks：
（1） $1 \mathrm{mg} / \mathrm{kg}=1 \mathrm{ppm}=0.0001 \%$
（2）MDL＝Method Detection Limit
（3）ND＝Not Detected（＜MDL）
（4）＂－＂＝Not Regulated

## Halogen

Test Method：With reference to EN 14582：2016，analysis was performed by IC．

| Test Item（s） | CAS No． | Unit（s） | MDL | A1 |
| :--- | :---: | :---: | :---: | :---: |
| Fluorine（F） | $14762-94-8$ | $\mathrm{mg} / \mathrm{kg}$ | 20 | ND |
| Chlorine（CI） | $22537-15-1$ | $\mathrm{mg} / \mathrm{kg}$ | 50 | ND |
| Bromine $(\mathrm{Br})$ | $10097-32-2$ | $\mathrm{mg} / \mathrm{kg}$ | 50 | ND |
| lodine（I） | $14362-44-8$ | $\mathrm{mg} / \mathrm{kg}$ | 50 | ND |

## Elements

Test Method：With reference to US EPA 3050B：1996，analysis was performed by ICP－OES．

| Test Item（s） | CAS No． | Unit（s） | MDL | A1 |
| :--- | :---: | :---: | :---: | :---: |
| Arsenic（As） | $7440-38-2$ | $\mathrm{mg} / \mathrm{kg}$ | 10 | ND |
| Barium（Ba） | $7440-39-3$ | $\mathrm{mg} / \mathrm{kg}$ | 10 | ND |
| Beryllium（Be） | $7440-86-3$ | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Antimony（Sb） | $7440-36-0$ | $\mathrm{mg} / \mathrm{kg}$ | 10 | ND |
| Selenium（Se） | $7782-49-2$ | $\mathrm{mg} / \mathrm{kg}$ | 10 | ND |

## Perfluorinated Compounds（PFCs）

Test Method：With reference to CEN／TS 15968：2010，analysis was performed by HPLC－MS or LC－ MS／MS．

| Test Item（s） | CAS No． | Unit（s） | MDL | A1 |
| :--- | :---: | :---: | :---: | :---: |
| Perfluorooctane sulfonates（PFOS）＾ | $1763-23-1$ | $\mathrm{mg} / \mathrm{kg}$ | 0.01 | ND |
| Perfluorooctanoic acid（PFOA）＋ | - | $\mathrm{mg} / \mathrm{kg}$ | 0.01 | ND |

## Notes：

（1）＾PFOS refer to its salts／derivative including PFOS－K（CAS No．：2795－39－3），PFOS－Li（CAS No．：29457－
72－5），PFOS－Na（CAS No．：4021－47－0），PFOS－NH4（CAS No．：29081－56－9），PFOS－NH2（C2H4OH）2（CAS No．70225－14－8），PFOS－N（C2H5）4（CAS No．：56773－42－3），PFOS－N（C10H21）2（CH3）2（CAS No．：251099－ 16－8）and POSF（CAS No．：307－35－7）．
（2）＋PFOA refer to its salts／derivative including PFOA－Na（CAS No．：335－95－5），PFOA－K（CAS No．：2395－00－ 8），PFOA－Ag（CAS No．：335－93－3），PFOA－F（CAS No．：335－66－0）and APFO（CAS No．：3825－26－1）．

## Phthalates



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Test Method：With reference to EN 14372：2004，analysis was performed by GC－MS．

| Test Item（s） | CAS No． | Unit（s） | MDL | A1 |
| :--- | :---: | :---: | :---: | :---: |
| Diisononyl Phthalate（DINP） | $28553-12-0$ <br> $/ 68515-48-0$ | $\%$ | 0.01 | ND |
| Di－n－Octyl Phthalate（DNOP） | $117-84-0$ | $\%$ | 0.003 | ND |
| Diisodecyl Phthalate（DIDP） | $26761-40-0$ <br> $/ 68515-49-1$ | $\%$ | 0.01 | ND |
| Di－n－Hexyl Phthalate（DnHP） | $84-75-3$ | $\%$ | 0.003 | ND |

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

Test Method：With reference to IEC 62321－4：2013＋AMD1：2017，IEC 62321－5：2013，IEC 62321－7－1：2015， IEC 62321－6：2015 and IEC62321－8：2017，analysis was performed by ICP－OES／AAS，UV－ Vis and GC－MS．

| Test Item（s） | CAS No． | Limit | Unit（s） | MDL | A1 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Cadmium（Cd） | $7440-43-9$ | 100 | $\mathrm{mg} / \mathrm{kg}$ | 2 | ND |
| Lead（Pb） | $7439-92-1$ | 1000 | $\mathrm{mg} / \mathrm{kg}$ | 2 | ND |
| Mercury（Hg） | $7439-97-6$ | 1000 | $\mathrm{mg} / \mathrm{kg}$ | 2 | ND |
| Hexavalent Chromium（Cr（VI））V | - | - | $\mathrm{\mu g} / \mathrm{cm}^{2}$ | 0.10 | ND |
| Polybromobiphenyl（PBBs） | - | 1000 | $\mathrm{mg} / \mathrm{kg}$ | - | ND |
| Monobromobiphenyl（MonoBB） | $002113-57-7$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Dibromobiphenyl（DiBB） | $000092-86-4$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Tribromobiphenyl（TriBB） | $059080-33-0$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Tetrabromobiphenyl（TetraBB） | $060044-24-8$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Pentabromobiphenyl（PentaBB） | $059080-39-6$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Hexabromobiphenyl（HexaBB） | $059080-40-9$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Heptabromobiphenyl（HeptaBB） | $067733-52-2$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Octabromobiphenyl（OctaBB） | $027858-07-7$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Nonabromobiphenyl（NonaBB） | $069278-62-2$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Decabromobiphenyl（DecaBB） | $013654-09-6$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Polybromodiphenyl ether（PBDEs） | - | 1000 | $\mathrm{mg} / \mathrm{kg}$ | - | ND |
| Monobromodiphenylether（MonoBDE） | $101-55-3$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Dibromodiphenylether（DiBDE） | $2050-47-7$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Tribromodiphenylether（TriBDE） | $147217-80-9$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Tetrabromodiphenylether（TetraBDE） | $93703-48-1$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Pentabromodiphenylether（PentaBDE） | - | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Hexabromodiphenylether（HexaBDE） | $182677-28-7$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Heptabromodiphenylether（HeptaBDE） | $189084-67-1$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Octabromodiphenylether（OctaBDE） | $337513-72-1$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Nonabromodiphenylether（NonaBDE） | $63387-28-0$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Decabromodiphenylether（DecaBDE） | $1163-19-5$ | - | $\mathrm{mg} / \mathrm{kg}$ | 5 | ND |
| Dibutyl Phthalate（DBP） | $84-74-2$ | 1000 | $\mathrm{mg} / \mathrm{kg}$ | 50 | ND |
| Bis－（2－ethylhexyl）Phthalate（DEHP） | $117-81-7$ | 1000 | $\mathrm{mg} / \mathrm{kg}$ | 50 | ND |
| Benzyl Butyl Phthalate（BBP） | $85-68-7$ | 1000 | $\mathrm{mg} / \mathrm{kg}$ | 50 | ND |
|  |  |  |  |  |  |



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| Test Item（s） | CAS No． | Limit | Unit（s） | MDL | A1 |
| :--- | :---: | :---: | :---: | :---: | :---: |
| Diisobutyl Phthalate（DIBP） | $84-69-5$ | 1000 | $\mathrm{mg} / \mathrm{kg}$ | 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） $\bar{v}=\quad$ ．The sample is positive for $\mathrm{Cr}(\mathrm{VI})$ if the $\mathrm{Cr}(\mathrm{VI})$ concentration is greater than $0.13 \mu \mathrm{~g} / \mathrm{cm}^{2}$ ．The sample coating is considered to contain $\mathrm{Cr}(\mathrm{VI})$ ．
b．The sample is negative for $\operatorname{Cr}(\mathrm{VI})$ if $\operatorname{Cr}(\mathrm{VI})$ is $N D$（concentration less than $0.10 \mu \mathrm{~g} / \mathrm{cm}^{2}$ ）．The coating is considered a non $-\mathrm{Cr}(\mathrm{VI})$ based coating．
c．The result between $0.10 \mu \mathrm{~g} / \mathrm{cm}^{2}$ and $0.13 \mu \mathrm{~g} / \mathrm{cm}^{2}$ is considered to be inconclusive－unavoidable coating variations may influence the determination．

Information on storage conditions and production date of the tested sample is unavailable and thus $\mathrm{Cr}(\mathrm{VI})$ results represent status of the sample at the time of testing．

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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## Halogen Testing Flow Chart



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Elements Testing Flow Chart


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PFASs/ PFOS/PFOA Testing Flow Chart


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Phthalates Testing Flow Chart


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## Elements Testing Flow Chart

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


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



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## PBB/PBDE Testing Flow Chart



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