# Test Report

No. CANNR2113837711 Date: 02 Aug 2021 Page 1 of 6

DONGGUAN XINCHANGQIAO PLASTICS CO.,LTD 、TIANJIN XINLONGQIAO ENGINEERING PLASTICS CO.,LTD、NINGBO XINQIAO CHEMICALIND CO.,LTD

PORT-INDUSTRIAL PARK OF SHATIAN TOWN,DONGGUAN CITY,GUANGDONG PROVINCE 、TIANJIN TANGGU PORT ECONOMIC ZONE BOHAI ROAD TWELVE NO.1126 、NO98 JINJIRD,BEILUNDISTRICE NINGBO CITY,ZHEJIANG PROVINCE

The following sample(s) was/were submitted and identified on behalf of the clients as : SPECIFICATION: FG GRADE

| | |
|---|---|
| SGS Job No. : | MNS210816GZ - GZ |
| Date of Sample Received : | 27 Jul 2021 |
| Testing Period : | 27 Jul 2021 - 02 Aug 2021 |
| Test Requested : | Selected test(s) as requested by client. |
| Test Method : | Please refer to next page(s). |
| Test Results : | Please refer to next page(s). |

Result Summary :

| Test Requested | Conclusion |
|---|---|
| US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content | PASS |
| US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) – Phthalates Content | PASS |
| US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) – Perfluoroalkyl and polyfluoroalkyl substances (PFASs) Content | PASS |

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

Jessie Li

Jessie Li
Approved Signatory

SGS-CSTC Standards Technical Services Co., Ltd. Guangzhou Branch Testing Center Chemical Laboratory.



198 Kezhu Road,Scientech Park Guangzhou Economic & Technology Development District,Guangzhou,China 510663 t (86-20) 82155555 www.sgsgroup.com.cn
中国·广州·经济技术开发区科学城科珠路198号 邮编: 510663 t (86-20) 82155555 sgs.china@sgs.com

Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|---|---|---|
| SN1 | CAN21-138377.001 | White grains |

Remarks :

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

**US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) - Total Lead, Cadmium, Mercury and Hexavalent Chromium Content**

Test Method : With reference to GZTC CHEM-TOP-174-01, analysis was performed by ICP-OES & UV-Vis.

| Test Item(s) | Limit | Unit | MDL | *001* |
|---|---|---|---|---|
| Lead (Pb) | - | mg/kg | 5 | ND |
| Hexavalent Chromium (CrVI) | - | mg/kg | 8 | ND |
| Cadmium (Cd) | - | mg/kg | 5 | ND |
| Mercury (Hg) | - | mg/kg | 5 | ND |
| Total (Pb + Cd + Cr VI + Hg) | 100 | mg/kg | - | ND |
| **Comment** | | | | **PASS** |

Notes :

The TPCH legislation for total lead, cadmium, mercury and hexavalent chromium Cr(VI) has been enacted by California, Connecticut, Florida, Georgia, Illinois, Iowa, Maine, Maryland, Minnesota, Missouri, New Hampshire, New Jersey, New York, Pennsylvania, Rhode Island, Vermont, Virginia, Washington and Wisconsin.

**US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) – Phthalates Content**

Test Method : With reference to CPSC-CH-C1001-09.4, analysis was performed by GC-MS

| Test Item(s) | CAS NO. | Limit | Unit | MDL | 001 |
|---|---|---|---|---|---|
| Dibutyl Phthalate (DBP) | 84-74-2 | - | mg/kg | 50 | ND |
| Benzylbutyl Phthalate (BBP) | 85-68-7 | - | mg/kg | 50 | ND |
| Di(2-ethylhexyl)phthalate(DEHP) | 117-81-7 | - | mg/kg | 50 | ND |
| Diisononyl Phthalate (DINP) | 28553-12-0 / 68515-48-0 | - | mg/kg | 50 | ND |



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| Test Item(s) | CAS NO. | Limit | Unit | MDL | 001 |
|---|---|---|---|---|---|
| Di-n-octyl Phthalate (DNOP) | 117-84-0 | - | mg/kg | 50 | ND |
| Diisodecyl Phthalate (DIDP) | 26761-40-0 / 68515-49-1 | - | mg/kg | 50 | ND |
| Dihexyl Phthalates (DHEXP/ DnHP) | 84-75-3 | - | mg/kg | 50 | ND |
| Dimethyl Phthalate (DMP) | 131-11-3 | - | mg/kg | 50 | ND |
| Diethyl Phthalate (DEP) | 84-66-2 | - | mg/kg | 50 | ND |
| Dipropyl Phthalate (DPrP) | 131-16-8 | - | mg/kg | 50 | ND |
| Diisobutyl Phthalate (DIBP) | 84-69-5 | - | mg/kg | 50 | ND |
| Dipentyl Phthalates (DPENP/DnPP) | 131-18-0 | - | mg/kg | 50 | ND |
| Dicyclohexyl Phthalate (DCHP) | 84-61-7 | - | mg/kg | 50 | ND |
| Diisooctyl Phthalate (DIOP) | 27554-26-3 | - | mg/kg | 50 | ND |
| Bis(2-methoxyethyl) Phthalate (DMEP) | 117-82-8 | - | mg/kg | 50 | ND |
| Diisopentyl Phthalate (DIPP) | 605-50-5 | - | mg/kg | 50 | ND |
| n-pentyl Isopentyl Phthalate (nPIPP) | 776297-69-9 | - | mg/kg | 50 | ND |
| 1,2-Benzenedicarboxylic acid, di-C6-8-branched alkyl esters,C7-rich (DIHP) | 71888-89-6 | - | mg/kg | 50 | ND |
| 1,2-Benzenedicarboxylic acid, di-C7-11-branched and linear alkyl esters (DHNUP) | 68515-42-4 | - | mg/kg | 50 | ND |
| 1,2-Benzenedicarboxylic acid, dipentyl ester, branched and linear (DPP) | 84777-06-0 | - | mg/kg | 50 | ND |
| 1,2-Benzenedicarboxylic acid, dihexyl ester branched and linear(DHP) | 68515-50-4 | - | mg/kg | 50 | ND |
| Di-iso-hexylphthalate (DIHxP) | 71850-09-4 | - | mg/kg | 50 | ND |
| 1,2-benzenedicarboxylic acid, di-C6-10-alkyl esters; 1,2-benzenedicarboxylic acid, mixed decyl and hexyl and octyl diesters with ≥ 0.3% of dihexyl phthalate | 68515-51-5/ 68648-93-1 | - | mg/kg | 50 | ND |
| Sum of Phthalates | | 100 | mg/kg | - | ND |
| **Comment** | | | | | **PASS** |

Notes :

The TPCH defines ortho-phthalates as a class of chemical. There is no official list of ortho-phthalates from TPCH. Conclusion is made based on the tested 26 Orthto-Phthalate substances.

**US Model Toxics in Packaging Legislation (TPCH: Toxics in Packaging Clearing House) – Perfluoroalkyl and polyfluoroalkyl substances (PFAS) Content**

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

| Test Item(s) | CAS NO. | Limit | Unit | MDL | 001 |
|---|---|---|---|---|---|
| Perfluorobutane Acid (PFBA) | 375-22-4 | ★ | mg/kg | 1 | ND |
| Perfluoropentane Acid (PFPA) | 2706-90-3 | ★ | mg/kg | 1 | ND |



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| Test Item(s) | CAS NO. | Limit | Unit | MDL | 001 |
|---|---|---|---|---|---|
| Perfluorohexane acid (PFHxA) | 307-24-4 | ★ | mg/kg | 1 | ND |
| 7H-Dodecanefluoroheptane Acid (HPFHpA) | 1546-95-8 | ★ | mg/kg | 1 | ND |
| Perfluorobutane Sulfonate (PFBS) | 375-73-5 | ★ | mg/kg | 1 | ND |
| Perfluorobutanesulfonate K-salt (PFBS-K)* | 29420-49-3 | ★ | mg/kg | 1 | ND |
| Perfluoroheptane Acid (PFHpA) | 375-85-9 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorooctanesulphonic acid ($H_4$PFOS 6:2) | 27619-97-2 | ★ | mg/kg | 1 | ND |
| Perfluorooctanoic acid (PFOA) | 335-67-1 | ★ | mg/kg | 1 | ND |
| Ammonium pentadecafluorooctanoate(APFO)* | 3825-26-1 | ★ | mg/kg | 1 | ND |
| Sodium perfluorooctanoate (PFOA-Na)* | 335-95-5 | ★ | mg/kg | 1 | ND |
| Potassium perfluorooctanoate (PFOA-K)* | 2395-00-8 | ★ | mg/kg | 1 | ND |
| Silver perfluorooctanote (PFOA-Ag)* | 335-93-3 | ★ | mg/kg | 1 | ND |
| Perfluorooctanoyl fluoride (PFOA-F)* | 335-66-0 | ★ | mg/kg | 1 | ND |
| 2H,2H-Perfluorodecane Acid ($H_2$PFDA) | 27854-31-5 | ★ | mg/kg | 1 | ND |
| Perfluorohexane Sulfonate (PFHxS) | 355-46-4 | ★ | mg/kg | 1 | ND |
| Perfluorohexanesulfonate Na-salt (PFHxS-Na)* | 82382-12-5 | ★ | mg/kg | 1 | ND |
| Perfluorohexanesulfonate K-salt (PFHxS-K)* | 3871-99-6 | ★ | mg/kg | 1 | ND |
| Perfluorononane Acid (PFNA) | 375-95-1 | ★ | mg/kg | 1 | ND |
| Perfluorononanoate Na-Salt (PFNA-Na)* | 21049-39-8 | ★ | mg/kg | 1 | ND |
| Perfluorononanoate ammounium salt (APFN)* | 4149-60-4 | ★ | mg/kg | 1 | ND |
| Perfluoro-3,7-dimethyloctanoic Acid (PF-3,7-DMOA) | 172155-07-6 | ★ | mg/kg | 1 | ND |
| Perfluoroheptane Sulfonate (PFHpS) | 375-92-8 | ★ | mg/kg | 1 | ND |
| Perfluoroheptanesulfonate Na-salt (PFHpS-Na)* | 68555-66-8 | ★ | mg/kg | 1 | ND |
| Perfluorodecane Acid (PFDA) | 335-76-2 | ★ | mg/kg | 1 | ND |
| Perfluorodecanoate Na-salt(PFDA-Na)* | 3830-45-3 | ★ | mg/kg | 1 | ND |
| Perfluorodecanoate ammonium salt(APFDA)* | 3108-42-7 | ★ | mg/kg | 1 | ND |
| 2H,2H,3H,3H-Perfluoroundecanoic acid (4HPFUnA) | 34598-33-9 | ★ | mg/kg | 1 | ND |
| Perfluorooctane sulfonates (PFOS) | 1763-23-1 | ★ | mg/kg | 1 | ND |
| Perfluorooctane Sulfonyl fluoride(POSF)* | 307-35-7 | ★ | mg/kg | 1 | ND |
| Potassium Perfluorooctanesulfonate (PFOS-K)* | 2795-39-3 | ★ | mg/kg | 1 | ND |
| Perfluorooctanesulfonic acid, ammonium salt (PFOS-$NH_4$)* | 29081-56-9 | ★ | mg/kg | 1 | ND |
| N-decyl-N,N-dimethyldecan-1-aminium 1,1,2,2,3,3,4,4,5,5,6,6,7,7,8,8,8-heptadecafluorooctane-1-sulfonate (PFOS-DDA)* | 251099-16-8 | ★ | mg/kg | 1 | ND |
| Perfluorooctane sulfonate diethanolamine salt (PFOS-$NH(OH)_2$)* | 70225-14-8 | ★ | mg/kg | 1 | ND |



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| Test Item(s) | CAS NO. | Limit | Unit | MDL | 001 |
|---|---|---|---|---|---|
| Perfluorooctanesulfonic acid, lithium salt (PFOS-Li)* | 29457-72-5 | ★ | mg/kg | 1 | ND |
| Perfluorooctanesulfonic acid,tetraethylammonium salt (PFOS-N($C_2H_5$)$_4$)* | 56773-42-3 | ★ | mg/kg | 1 | ND |
| Perfluoroundecanoic Acid (PFUdA) | 2058-94-8 | ★ | mg/kg | 1 | ND |
| Perfluorododecanoic Acid (PFDoA) | 307-55-1 | ★ | mg/kg | 1 | ND |
| Perfluorodecane Sulfonate (PFDS) | 335-77-3 / 126105-34-8 | ★ | mg/kg | 1 | ND |
| Perfluorodecanesulfonate Na-salt (PFDS-Na)* | 2806-15-7 | ★ | mg/kg | 1 | ND |
| Perfluorodecanesulfonate K-salt (PFDS-K)* | 2806-16-8 | ★ | mg/kg | 1 | ND |
| Perfluoroaliphatic Dean-sulfonate salt of $NH_4$ (PFDS-$NH_4$)* | 67906-42-7 | ★ | mg/kg | 1 | ND |
| Perfluorotridecanoic Acid (PFTrA) | 72629-94-8 | ★ | mg/kg | 1 | ND |
| Perfluorotetradecanoic Acid (PFTeA) | 376-06-7 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorodecane sulfonate (8:2 FTS) | 39108-34-4 | ★ | mg/kg | 1 | ND |
| Methyl perfluorooctanoate (Me-PFOA) | 376-27-2 | ★ | mg/kg | 1 | ND |
| Ethyl perfluorooctanoate (Et-PFOA) | 3108-24-5 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluoro-1-decanol (8:2 FTOH) | 678-39-7 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorodecyl acrylate (8:2 FTA) | 27905-45-9 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorodecyl methacrylate (8:2 FTMA) | 1996-88-9 | ★ | mg/kg | 1 | ND |
| Perfluoro-1-iodooctane (PFOI) | 507-63-1 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluoro-1-hexanol (4:2 FTOH) | 2043-47-2 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluoro-1-octanol (6:2 FTOH) | 647-42-7 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorooctylacrylate (6:2 FTA) | 17527-29-6 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluorododecylacrylate (10:2 FTA) | 17741-60-5 | ★ | mg/kg | 1 | ND |
| 1H,1H,2H,2H-Perfluoro -1-dodecanol (10:2 FTOH) | 865-86-1 | ★ | mg/kg | 1 | ND |
| **Comment** | | | | | **PASS** |

Notes :

1.“★” = Prohibited
2. * The test result is based on the calculation of selected marker(s) and to the worst-case scenario.
3. The TPCH defines Perfluoroalkyl and Polyfluoroalkyl Substances (PFAS) as a class of chemical. There is no official list of PFAS from TPCH. Conclusion is made based on the tested 62 PFAS substances.



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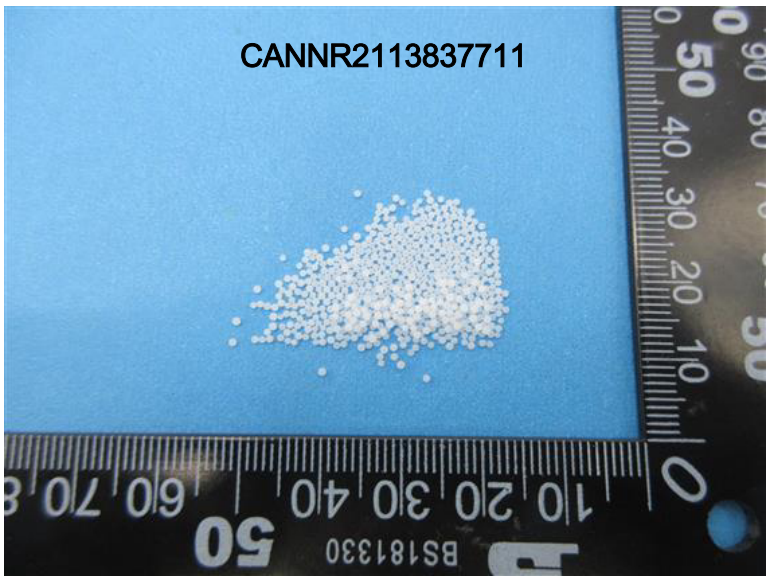
Sample photo:

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