

Test Report No.: NGBEC23004367001 **Date:** Sep 25, 2023 Page 1 of 13

Client Name: KONFOONG MATERIALS INTERNATIONAL CO, LTD

Client Address: NO.198 ANSHAN RD .MINGBANG TECH & INDUSTRY PARK, YUYAO,ZHEJIANG ,P. R.

C

Sample Name: Ti

The above sample(s) and information were provided by the client.

SGS Job No.: TIC1020230918160636EGY8

Sample Receiving Date: Sep 19, 2023

Testing Period: Sep 19, 2023 ~ Sep 25, 2023

Test Requested: Select test(s) as requested by the client.

Test Method(s): Please refer to next page(s).

Test Result(s): Please refer to next page(s).

Test Requirement	Conclusion
European Regulation POPs (EU) 2019/1021–Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)	Pass
Halogen	See Results
Elements	See Results
Perfluorinated Compounds (PFCs)	See Results
Phthalates	See Results
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)	Pass

Signed for and on behalf of

SGS-CSTC Standards Technical Services Co., Ltd. Ningbo Branch

Kell_Li

Approved Signatory

Kew Li





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Test Result(s):

Test Part Description:

SN ID	Sample No.	SGS Sample ID	Description
SN1	A1	NGB23-0043670-0001.C001	Silver gray metal

Remarks:

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

European Regulation POPs (EU) 2019/1021-Hexabromocyclododecane (HBCDD) and all major diastereoisomers identified (α-HBCDD, β-HBCDD, γ-HBCDD)

Test Method: With reference to IEC 62321-9:2021, analysis was performed by GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
	25637-99-4,				
Hexabromocyclododecane (HBCDD)	3194-55-6,				
and its main diastereoisomers (α-	134237-50-6,	100	mg/kg	20	ND
HBCDD, β-HBCDD, γ-HBCDD)	134237-51-7,				
	134237-52-8				
Conclusion					Pass

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	mg/kg	20	ND
Chlorine(Cl)	22537-15-1	mg/kg	50	ND
Bromine(Br)	10097-32-2	mg/kg	50	ND
lodine(I)	14362-44-8	mg/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	mg/kg	10	ND
Beryllium(Be)	7440-86-3	mg/kg	5	ND
Antimony(Sb)	7440-36-0	mg/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.



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

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 /68515-48-0	%	0.01	ND
Di-n-Octyl Phthalate(DNOP)	117-84-0	%	0.003	ND
Diisodecyl Phthalate (DIDP)	26761-40-0 /68515-49-1	%	0.01	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, UV-Vis

and GC-MS.

Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Cadmium(Cd)	7440-43-9	100	mg/kg	2	ND
Lead(Pb)	7439-92-1	1000	mg/kg	2	ND
Mercury(Hg)	7439-97-6	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	1	μg/cm²	0.10	ND
Polybromobiphenyl (PBBs)	-	1000	mg/kg	-	ND
Monobromobiphenyl (MonoBB)	002113-57-7	1	mg/kg	5	ND
Dibromobiphenyl (DiBB)	000092-86-4	1	mg/kg	5	ND
Tribromobiphenyl (TriBB)	059080-33-0	-	mg/kg	5	ND
Tetrabromobiphenyl (TetraBB)	060044-24-8	1	mg/kg	5	ND
Pentabromobiphenyl (PentaBB)	059080-39-6	1	mg/kg	5	ND
Hexabromobiphenyl (HexaBB)	059080-40-9	1	mg/kg	5	ND
Heptabromobiphenyl (HeptaBB)	067733-52-2	1	mg/kg	5	ND
Octabromobiphenyl (OctaBB)	027858-07-7	1	mg/kg	5	ND
Nonabromobiphenyl (NonaBB)	069278-62-2	ı	mg/kg	5	ND
Decabromobiphenyl (DecaBB)	013654-09-6	1	mg/kg	5	ND
Polybromodiphenyl ether(PBDEs)	-	1000	mg/kg	ı	ND
Monobromodiphenylether (MonoBDE)	101-55-3	- 1	mg/kg	5	ND
Dibromodiphenylether (DiBDE)	2050-47-7	-	mg/kg	5	ND



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Test Item(s)	CAS No.	Limit	Unit(s)	MDL	A1
Tribromodiphenylether (TriBDE)	147217-80-9	1	mg/kg	5	ND
Tetrabromodiphenylether (TetraBDE)	93703-48-1	ı	mg/kg	5	ND
Pentabromodiphenylether (PentaBDE)	-	ı	mg/kg	5	ND
Hexabromodiphenylether (HexaBDE)	182677-28-7	ı	mg/kg	5	ND
Heptabromodiphenylether (HeptaBDE)	189084-67-1	ı	mg/kg	5	ND
Octabromodiphenylether (OctaBDE)	337513-72-1	ı	mg/kg	5	ND
Nonabromodiphenylether (NonaBDE)	63387-28-0	ı	mg/kg	5	ND
Decabromodiphenylether (DecaBDE)	1163-19-5	ı	mg/kg	5	ND
Dibutyl Phthalate(DBP)	84-74-2	1000	mg/kg	50	ND
Bis-(2-ethylhexyl) Phthalate(DEHP)	117-81-7	1000	mg/kg	50	ND
Benzyl Butyl Phthalate(BBP)	85-68-7	1000	mg/kg	50	ND
Diisobutyl Phthalate(DIBP)	84-69-5	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) ∇ = a. The sample is positive for Cr(VI) if the Cr(VI)concentration is greater than 0.13 µg/cm². The sample coating is considered to contain Cr(VI)
- b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 $\mu g/cm^2$). The coating is considered a non-Cr(VI) based coating
- c. The result between $0.10~\mu g/cm^2$ and $0.13~\mu g/cm^2$ 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 Cr(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.

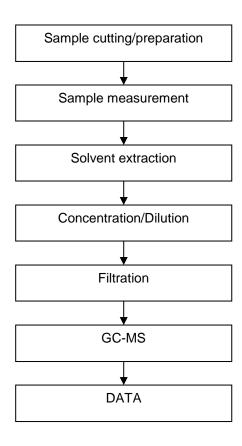


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HBCDD Testing Flow Chart



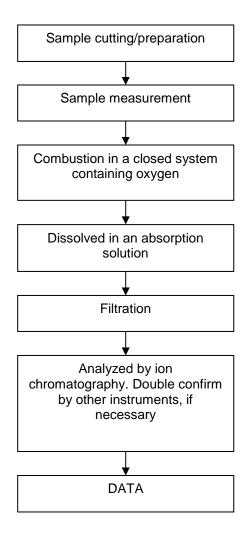


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Halogen Testing Flow Chart



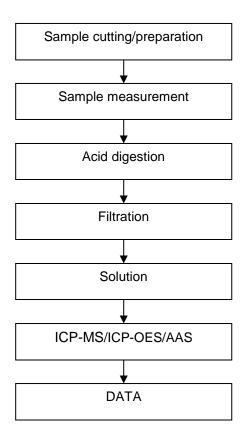


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Elements Testing Flow Chart



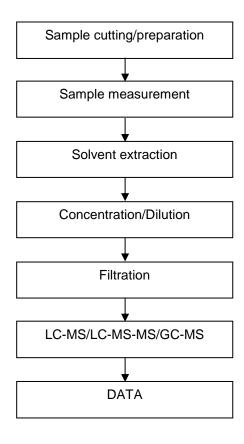


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PFASs/ PFOS/PFOA Testing Flow Chart



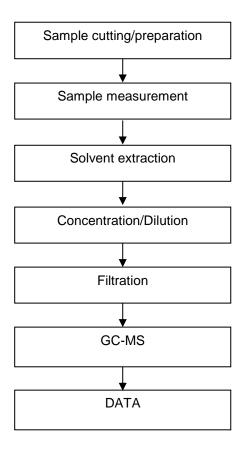


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Phthalates Testing Flow Chart





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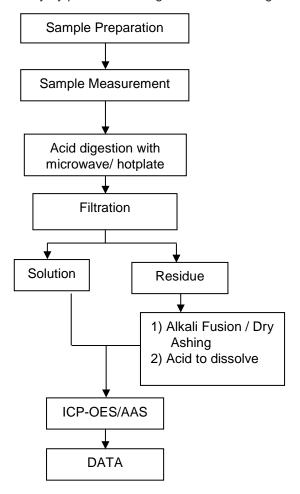


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ATTACHMENTS

Elements Testing Flow Chart

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



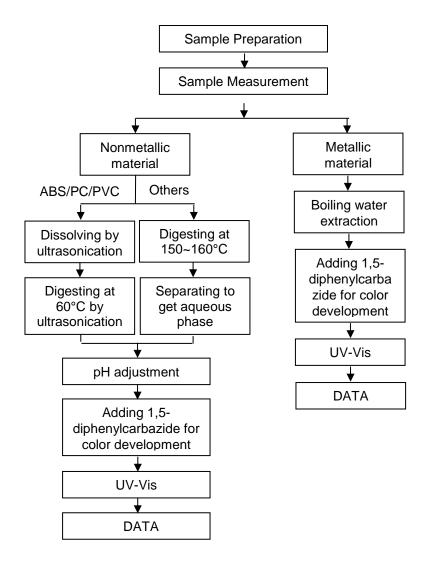


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Hexavalent Chromium (Cr(VI)) Testing Flow Chart



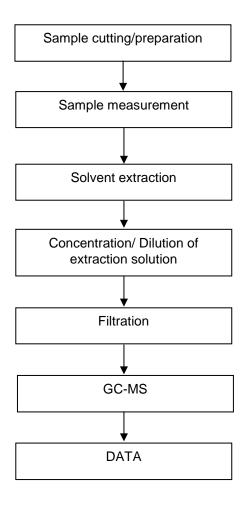


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PBBs/PBDEs Testing Flow Chart





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Sample Photo:



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