

**Test Report** Date: 15 May 2023 No. TAOEC2302972103 Page 1 of 16

HENGHUI TECHNOLOGY CORPORATION LIMITED Client Name:

Client Address: NO.187, ZHONGRUN AVENUE, ZIBO CITY, SHANDONG PROVINCE, P.R. CHINA

Sample Name: A194FH LEADFRAME

Model No.: A194FH

Client Ref. Information: A194FH/C194FH/QFP/QFN/DFN/DIP/SOP/SDIP/SSOP/SOT/TSOP/TSSOP/MSO

P/HSOP/TO/SMD/PD/LQFP/LF/SOD/GBU/SCMA/PMSOP/

MLF/FBP/ELP/QLMP/OCSSOP/TSLP/LPCC/MISPP/MPAQ/ CMD/SW93

2023-4-25 Manufacturing date:

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

SGS Job No.: QP23-003118 - QD

Date of Sample Received: 04 May 2023

Testing Period: 04 May 2023 - 15 May 2023

Test Requested: Selected 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).

Result Summary:

Test Requested	Conclusion
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 Diisobutyl phthalate (DIBP)	PASS
Halogen	See Results
Element(s)	See Results
Organic-tin compounds	See Results
Red Phosphorus	See Results
Polyvinyl chloride (PVC)	See Results
Phthalates	See Results



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Signed for and on behalf of SGS-CSTC Standards Technical Services (Qingdao) Co., Ltd.

Wang Bo, Claire Approved Signatory



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Test Result(s):

### **Test Part Description:**

Specimen No. SGS Sample ID **Description** 

> SN<sub>1</sub> TAO23-029721.002 coppery metal sheet

### Remarks:

(1) 1 mg/kg = 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 (PBBs), Polybrominated diphenyl ethers (PBDEs), Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP) and Diisobutyl phthalate (DIBP)

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

Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1000	mg/kg	2	8
Mercury (Hg)	1000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND
Sum of PBBs	1000	mg/kg	-	ND
Monobromobiphenyl	-	mg/kg	5	ND
Dibromobiphenyl	-	mg/kg	5	ND
Tribromobiphenyl	-	mg/kg	5	ND
Tetrabromobiphenyl	-	mg/kg	5	ND
Pentabromobiphenyl	-	mg/kg	5	ND
Hexabromobiphenyl	-	mg/kg	5	ND
Heptabromobiphenyl	-	mg/kg	5	ND
Octabromobiphenyl	-	mg/kg	5	ND
Nonabromobiphenyl	-	mg/kg	5	ND
Decabromobiphenyl	-	mg/kg	5	ND
Sum of PBDEs	1000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND
Tribromodiphenyl ether	-	mg/kg	5	ND
Tetrabromodiphenyl ether	-	mg/kg	5	ND



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Test Item(s)	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>002</u>	
Pentabromodiphenyl ether	-	mg/kg	5	ND	
Hexabromodiphenyl ether	-	mg/kg	5	ND	
Heptabromodiphenyl ether	-	mg/kg	5	ND	
Octabromodiphenyl ether	-	mg/kg	5	ND	
Nonabromodiphenyl ether	-	mg/kg	5	ND	
Decabromodiphenyl ether	-	mg/kg	5	ND	
Dibutyl phthalate (DBP)	1000	mg/kg	50	ND	
Butyl benzyl phthalate (BBP)	1000	mg/kg	50	ND	
Bis (2-ethylhexyl) phthalate (DEHP)	1000	mg/kg	50	ND	
Diisobutyl Phthalates (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) ▼= a. The sample is positive for CrVI if the CrVI concentration is greater than 0.13 µg/cm². The sample coating is considered to contain CrVI
  - b. The sample is negative for CrVI if CrVI is ND (concentration less than 0.10  $\mu g/cm^2$ ). The coating is considered a non-CrVI based coating
  - c. The result between 0.10  $\mu$ g/cm² and 0.13  $\mu$ g/cm² 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.

(4) 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.

### Halogen

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

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Fluorine (F)	mg/kg	50	ND
Chlorine (CI)	mg/kg	50	ND
Bromine (Br)	mg/kg	50	ND
Iodine (I)	mg/kg	50	ND

### Element(s)

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



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Test Item(s)	<u>Unit</u>	MDL	<u>002</u>
Antimony (Sb)	mg/kg	10	ND
Beryllium (Be)	mg/kg	5	ND
Arsenic (As)	mg/kg	10	ND

### Organic-tin compounds

Test Method: With reference to ISO 17353: 2004, analysis was performed by GC-MS.

Test Item(s)	<u>Unit</u>	<u>MDL</u>	<u>002</u>
Tributyl tin (TBT)	mg/kg	0.02	ND
Tributyl Tin Oxide (TBTO) ◆	mg/kg	0.02	ND
Dibutyl tin (DBT)	mg/kg	0.02	ND
Dioctyl tin (DOT)	mg/kg	0.02	ND
Tri-n-propyl tin(TPrT)	mg/kg	0.02	ND

### Notes:

(1) ◆ = TBTO is back calculated based on the worst-case scenario of TBT.

### **Red Phosphorus**

SGS in house method(SHTC-CHEM-SOP-342-T), Analysis was performed by ICP-OES and Test Method:

Pyrolysis-GC/MS

Test Item(s) *002* Unit Red Phosphorus ND mg/kg 500

### Notes:

- (1) For Positive result, the testing result is based on the worst-case scenario, and confirmed by Pyrolysis GC-MS.
- (2) The test was subcontracted to SGS Shanghai chemical lab.

### Polyvinyl chloride (PVC)

Test Method: SGS in-house method (SHTC-CHEM-SOP-115-T), analysis was performed by FTIR/HATR.

Test Item(s) CAS NO. 002 Unit MDL Polyvinyl chloride (PVC) 9002-86-2 Negative



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Notes:

- (1) Negative=Undetectable, Positive=Detectable
- (2) The test was subcontracted to SGS Shanghai chemical lab.

### **Phthalates**

Test Method: With reference to IEC 62321-8:2017, determination of phthalates by GC-MS.

Test Item(s)	CAS NO.	<u>Unit</u>	MDL	002
Di-n-pentyl Phthalate (DnPP)	131-18-0	%	0.005	ND
Di-n-octyl Phthalate (DNOP)	117-84-0	%	0.005	ND
Diisononyl Phthalate (DINP)	28553-12-0/	%	0.005	ND
	68515-48-0			
Diisodecyl Phthalate (DIDP)	26761-40-0/	%	0.005	ND
	68515-49-1			

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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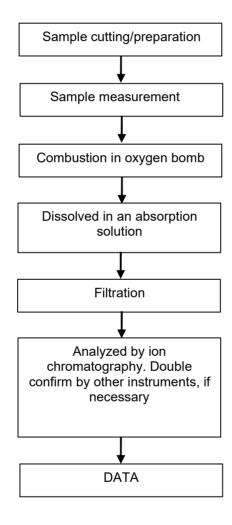
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## **Halogen Testing Flow Chart**





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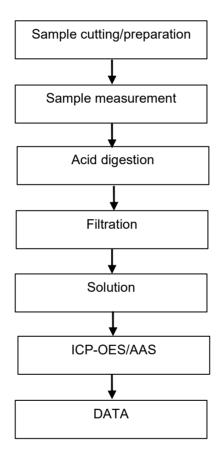
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## **Elementary Testing Flow Chart**





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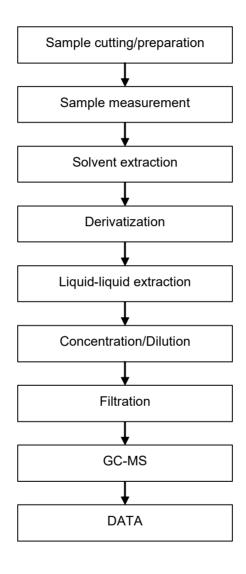
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## **Organotin Testing Flow Chart**





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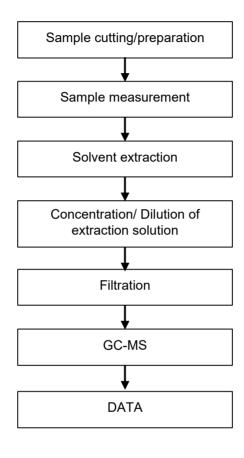


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## **PBBs/PBDEs Testing Flow Chart**





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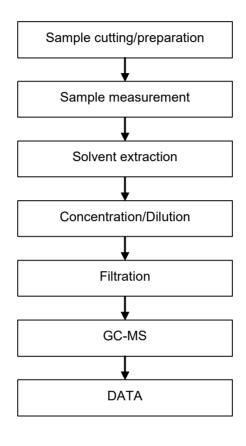
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## **Phthalates Testing Flow Chart**





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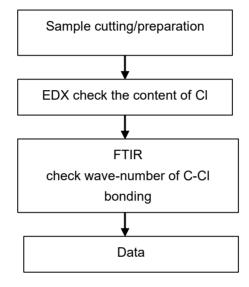
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## **PVC Testing Flow Chart**





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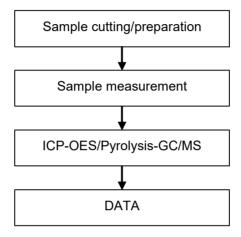
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## **Red Phosphorus Testing Flow Chart**





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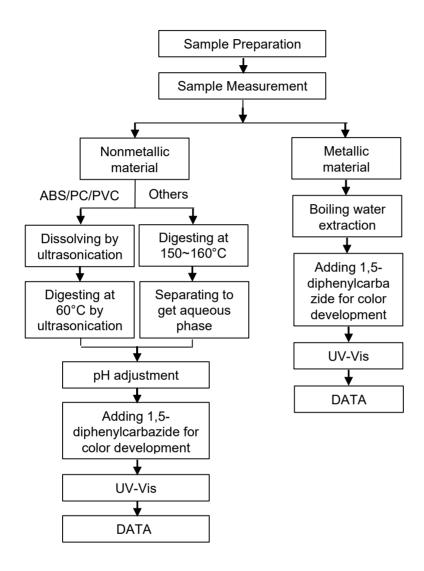
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## Hexavalent Chromium (Cr(VI)) Testing Flow Chart





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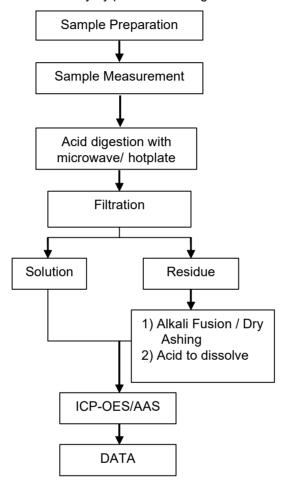
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## **Elements (IEC62321) Testing Flow Chart**

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





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Sample photo:



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