

Test Report	No. HKTEC2401860805	Date: 20 May 2024	Page 1 of 10
EIC SEMICONDUCTOR CO., LTD			
65, 68 SOI CHALONGKRUNG 31, I-EA-T FREE ZONE, LAT KRABANE LUMPLATIEW, LAT KRABANG, BA	,		

The following sample(s) was/were submitted and identified on behalf of the clients as : BRIDEGE RECTIFIER: EPOXY POTTING

SGS Job No. :	5398074 - HK
Manufacturer :	EIC SEMICONDUCTOR CO., LTD
Country of Origin :	THAILAND
Country of Destination :	THAILAND
Date of Sample Received :	29 Apr 2023
Testing Period :	29 Apr 2023 - 14 May 2024
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).
Conclusion :	Based on the performed tests on submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.

Signed for and on behalf of SGS Hong Kong Limited.

Lam Ka Yung, Allen Senior Chemist

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Test Results :

Test Part Description :

Specimen No.	SGS Sample ID	Description
1	HKT24-018608.014	Black plastic w/ silvery metal w/ chips
2	HKT24-018608.015	Silvery metal

Remarks :

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

## RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017, IEC62321-5:2013, IEC62321-7-2:2017, IEC62321-6:2015 and IEC62321-8:2017, analyzed by ICP-OES, UV-Vis and GC-MS. (Decision Rule: please refer to appendix 1: Category 1)

<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	2	3558#
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))	1,000	mg/kg	8	ND
Sum of PBBs	1,000	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	1,000	mg/kg	-	ND
Monobromodiphenyl ether	-	mg/kg	5	ND
Dibromodiphenyl ether	-	mg/kg	5	ND

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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	<u>MDL</u>	<u>014</u>	
Tribromodiphenyl ether	-	mg/kg	5	ND	
Tetrabromodiphenyl ether	-	mg/kg	5	ND	
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)	1,000	mg/kg	50	ND	
Benzylbutyl Phthalate (BBP)	1,000	mg/kg	50	ND	
Bis-(2-ethylhexyl) Phthalate (DEHP)	1,000	mg/kg	50	ND	
Diisobutyl Phthalate (DIBP)	1,000	mg/kg	50	ND	

#### Notes :

(1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/863.
IEC 62321 series is equivalent to EN 62321 series
http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID: 1258637,25

#### RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU

Test Method : With reference to IEC 62321-4:2013+A1:2017 and IEC62321-5:2013, analyzed by ICP-OES. (Decision Rule: please refer to appendix 1: Category 1) With reference to IEC62321-7-1:2015, analyzed by UV-Vis. (Decision Rule: please refer to

appendix 1	1: Cat	tegory 4	F)
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<u>Test Item(s)</u>	<u>Limit</u>	<u>Unit</u>	MDL	<u>015</u>
Cadmium (Cd)	100	mg/kg	2	ND
Lead (Pb)	1,000	mg/kg	5	254
Mercury (Hg)	1,000	mg/kg	2	ND
Hexavalent Chromium (Cr(VI))▼	-	µg/cm²	0.10	ND

#### Notes :

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

IEC 62321 series is equivalent to EN 62321 series

http://www.cenelec.eu/dyn/www/f?p=104:30:1742232870351101::::FSP\_ORG\_ID,FSP\_LANG\_ID: 1258637,25

(2)  $\checkmark$  = 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)

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b. The sample is negative for Cr(VI) if Cr(VI) is ND (concentration less than 0.10 µg/cm2). The coating is considered a non-Cr(VI) 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.

Remark:

1. # = Lead (Pb) in item no. 014 is exempted by EU RoHS directive 2011/65/EU based on |ANNEX III 7(a)|: Lead high melting temperature type solder (i.e. lead-based alloys containing 85% by weight or more lead.)

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## Appendix 1

Category	Decision Rule Statement
1	<ul> <li>The decision rule for conformity reporting is based on the non-binary statement with guard band (is equal to the expanded measurement uncertainty with a 95% coverage probability, w = U95) in ILAC-G8:09/2019 Clause 4.2.3.</li> <li>A. "Pass - the measured value is within (or below / above) the acceptance limit, where the acceptance limit is below / above to the guard band." or "Pass - The measured values were observed in tolerance at the points tested. The specific false accept risk is up to 2.5%.".</li> <li>B. "Conditional Pass - The measured values were observed in tolerance at the points tested. However, a portion of the expanded measurement uncertainty intervals about one or more measured values exceeded / out of tolerance. When the measured result is close to the tolerance, the specific false accept risk is up to 50%.".</li> <li>C. "Conditional Fail - One or more measured values were in tolerance. When the measured result is close to the tolerance, the specific false reject risk is up to 50%.".</li> <li>D. "Fail - the measured value is out of (or below / above) the tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance limit added / subtracted to the guard band." or "Fail - One or more measured values were observed out of tolerance at the points tested". The specific false reject risk is up to 2.5%.</li> </ul>
2	The decision rule for conformity reporting is based on EN 1811:2023: Reference tasks which are inserted into pierced parts of the human body and articles intended to come into direct and prolonged contact with the skin in Section 9.2 interpretation of results.
3	The decision rule for conformity reporting is based on the general consideration of simple acceptance as stated in ISO/IEC Guide 98-3: "Uncertainty of measurement - Part 3: Guide to the expression of uncertainty in measurement (GUM 1995)", and more specifically for analytical measurements to the EURACHEM/CITAC Guide 2012 "Quantifying Uncertainty in Analytical Measurement ".
4	The decision rule for conformity reporting is according to the IEC 62321-7-1 Edition 1.0 2015-09 Section 7: Table 1 - (comparison to standard solutions and interpretation of result)
5	The decision rule for conformity reporting is according to the IEC 62321-3-1 Edition 1.0 2013-06 Annex A.3 interpretation of result.
6	The decision rule for conformity reporting is according to the GB/T 39560.701-2020 Section 7: Table 1 - (comparison to standard solutions and interpretation of result)
7	The decision rule for conformity reporting is according to the requested specification or standard (ASTM F963-23 section 4.3.5)
8	The decision rule for conformity reporting is according to the requested specification or standard (AS/NZS ISO 8124 Part 3 section 4.2)
9	The decision rule for conformity reporting is according to the GB/T 39560.301-2020 Annex A.3 interpretation of result
Remark	If the decision rule is not feasible to be used and the uncertainty of the result is able to be provided, the uncertainty range of the result will be shown in the report. Otherwise, only result will be shown in the report.

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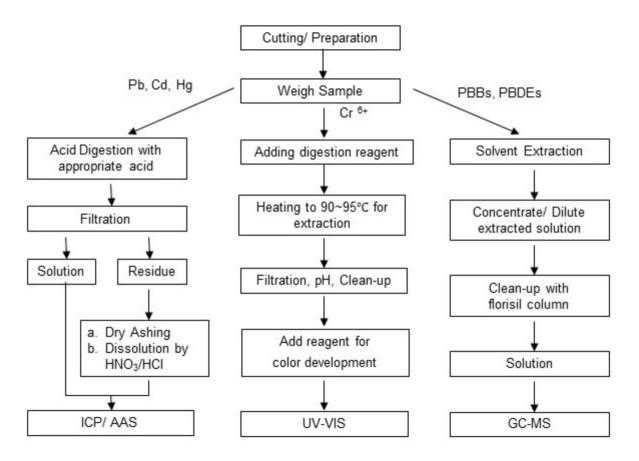


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## Pb/Cd/Hg/Cr6+/PBBs/PBDEs Testing Flow Chart

Method: IEC 62321-5:2013 (Cd/Pb), IEC 62321-4:2013+A1:2017 (Hg), IEC 62321-7-2:2017 (Cr<sup>8+</sup>), IEC 62321-6:2015 (PBBs/PBDEs)



Note : 1) Boiling water test method was also performed for Cr (VI) analysis in metal sample.

 The polymeric samples were dissolved totally by pre-conditioning method according to above flow chat for Cd, Pb and Hg contents analysis.

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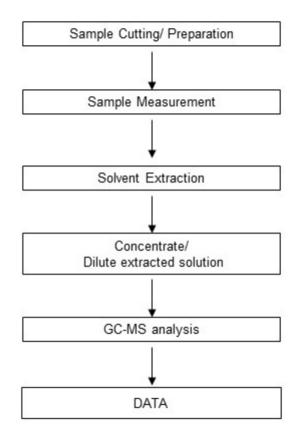
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### Phthalates Testing Flow Chart

Method: IEC 62321-8:2017



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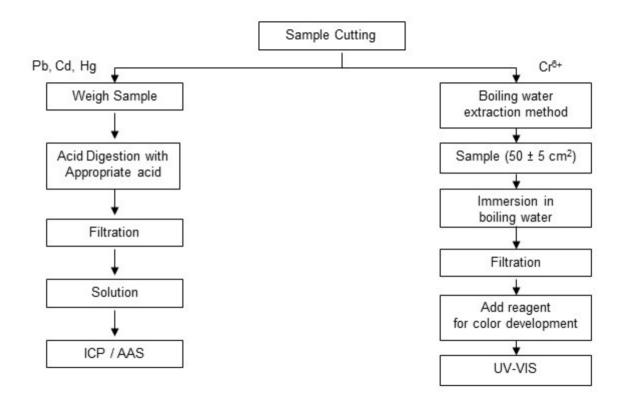
No. HKTEC2401860805

Date: 20 May 2024

Pb/Cd/Hg/Cr6+ Testing Flow Chart

Method: IEC 62321-5:2013 (Cd/Pb), IEC 62321-4:2013+A1:2017 (Hg),

IEC 62321-7-1:2015 (Cr8+)



The metallic samples were dissolved totally by pre-conditioning method according to above flow chart for Cd, Pb and Hg contents analysis.

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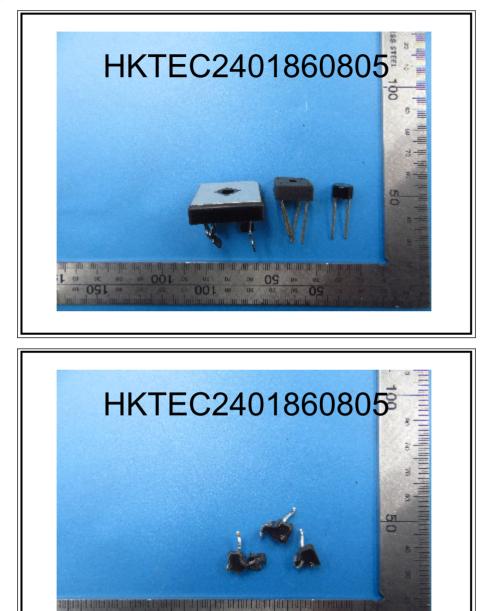


Sample photo:

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