

Test Report

No. SHAEC1707971401

Date: 27 Apr 2017

Page 1 of 5

SHANGHAI RICHENG ELECTRONICS CO.,LTD
XINSHEN INDUSTRIAL AREA,ZHELIN,FENGXIAN,SHANGHAI

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

SGS Job No. : SP17-014051 - SH

Date of Sample Received : 24 Apr 2017

Testing Period : 24 Apr 2017 - 27 Apr 2017

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 Cadmium, Lead, Mercury, Hexavalent chromium, Polychlorinated biphenyls (PCBs), Polychlorinated diphenyl ethers (PCDEs) do not exceed the limits as set by RoHS Directive (EU) 2015/ 853 amending Annex II to Directive 2011/ 65/EU.

Signed for and on behalf of
SGS-CSTC Standards Technical Services Shanghai Co Ltd



Mary Ma
Approved Signator



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Test Results :

Test Part Description :

| Specimen No. | SGS Sample ID | Description |
|--------------|------------------|-------------|
| SN1 | SHA17-079714.001 | lac solid |

Remarks :

- (1) 1 mg/ g 0.0001
- (2) DL Method Detection Limit
- () ND Not Detected (DL)
- (4) - Not Regulated

RoHS Directive (EU) 2015/ amending Annex II to Directive 2011/ 5/EU

- Test Method :
- (1) With reference to IEC 2 21-5:201 , determination of Cadmium by ICP-OES.
 - (2) With reference to IEC 2 21-5:201 , determination of Lead by ICP-OES.
 - () With reference to IEC 2 21-4:201 , determination of Mercury by ICP-OES.
 - (4) With reference to IEC 2 21-7-2:2017, determination of Hexavalent Chromium by Colorimetric Method using U - is and/or with reference to IEC 2 21-5:201 , determination of Chromium by ICP-OES.
 - (5) With reference to IEC 2 21- :2015, determination of Phosphorus and Phosphorus DEs by GC- S.

| Test Item(s) | Limit | Unit | DL | 001 |
|-------------------------------|-------|-------|----|-----|
| Cadmium (Cd) | 100 | mg/ g | 2 | ND |
| Lead (Pb) | 1000 | mg/ g | 2 | ND |
| Mercury (Hg) | 1000 | mg/ g | 2 | ND |
| Hexavalent Chromium (Cr(VI)) | 1000 | mg/ g | | ND |
| Sum of Phosphorus | 1000 | mg/ g | - | ND |
| Monobromobiphenyl | - | mg/ g | 5 | ND |
| Dibromobiphenyl | - | mg/ g | 5 | ND |
| Tribromobiphenyl | - | mg/ g | 5 | ND |
| Tetrabromobiphenyl | - | mg/ g | 5 | ND |
| Pentabromobiphenyl | - | mg/ g | 5 | ND |
| Hexabromobiphenyl | - | mg/ g | 5 | ND |
| Heptabromobiphenyl | - | mg/ g | 5 | ND |
| Octabromobiphenyl | - | mg/ g | 5 | ND |
| Nonabromobiphenyl | - | mg/ g | 5 | ND |
| Decabromobiphenyl | - | mg/ g | 5 | ND |
| Sum of Phosphorus DEs | 1000 | mg/ g | - | ND |



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| Test Item(s) | Limit | Unit | DL | 001 |
|--------------------------|-------|-------|----|-----|
| monobromodiphenyl ether | - | mg/ g | 5 | ND |
| Dibromodiphenyl ether | - | mg/ g | 5 | ND |
| Tribromodiphenyl ether | - | mg/ g | 5 | ND |
| Tetrabromodiphenyl ether | - | mg/ g | 5 | ND |
| Pentabromodiphenyl ether | - | mg/ g | 5 | ND |
| Hexabromodiphenyl ether | - | mg/ g | 5 | ND |
| Heptabromodiphenyl ether | - | mg/ g | 5 | ND |
| Octabromodiphenyl ether | - | mg/ g | 5 | ND |
| Nonabromodiphenyl ether | - | mg/ g | 5 | ND |
| Decabromodiphenyl ether | - | mg/ g | 5 | ND |

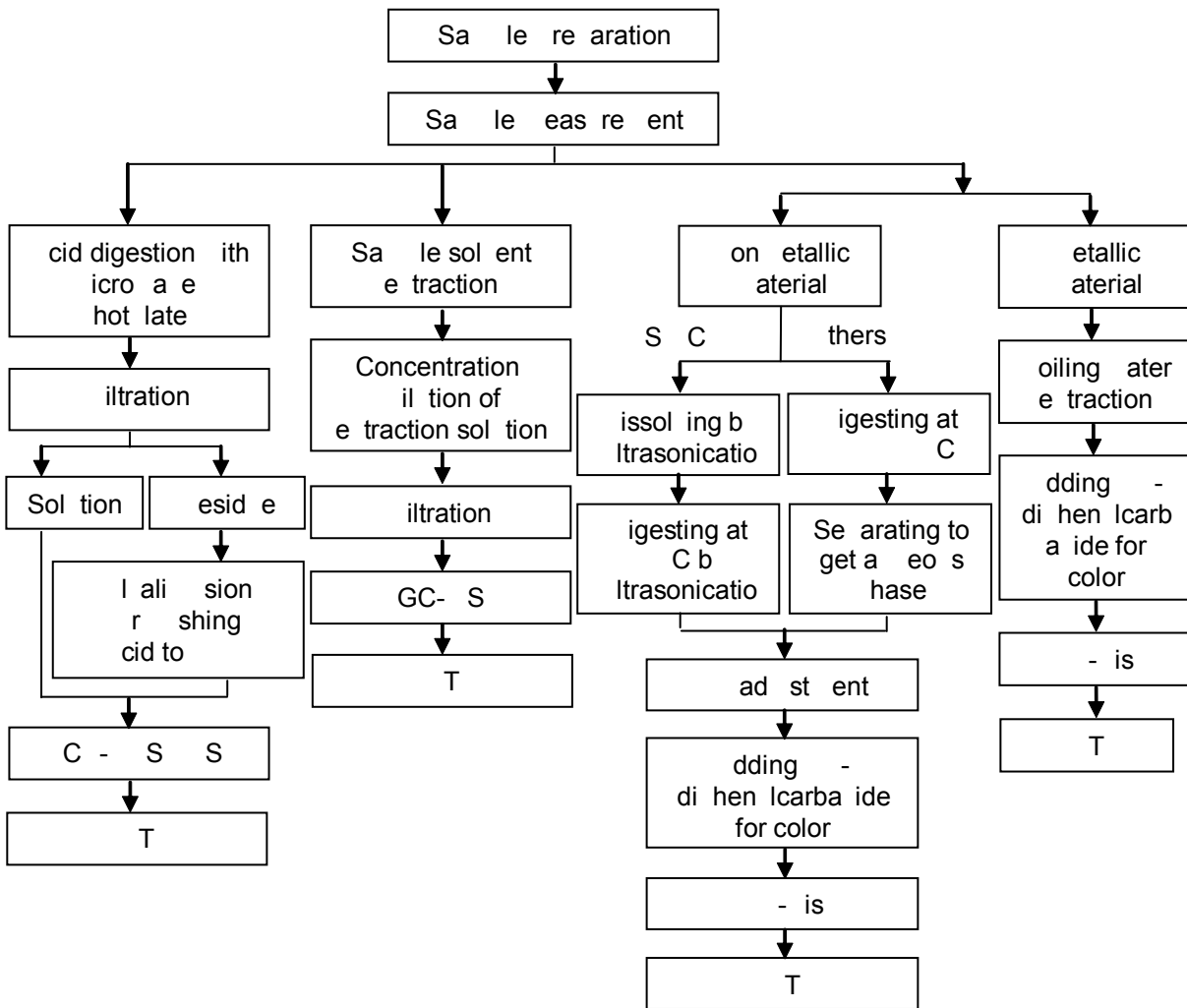
Notes :

- (1) The maximum permissible limit is quoted from RoHS Directive (EU) 2015/ 2178. The IEC 6121 series is equivalent to EN 6121 series
<http://www.cenelec.eu/d n/www/f p 104: 0:17422 2 70 51101:::FSP ORG ID,FSP LANG ID: 125 7,25>
- (2) The result of Hexavalent Chromium (Cr(VI)) is deemed to be ND since the result of total chromium content is ND, so testing of Hexavalent Chromium (Cr(VI)) is not required.
 () If the Chromium (Cr) content is greater than the DL of Hexavalent Chromium (Cr(VI)), confirmation test of Hexavalent Chromium (Cr(VI)) is required.
- (4) On 4 June 2015, Commission Directive (EU) 2015/ 240 was published in the Official Journal of the European Union (OJEU) to include the phthalates P, D P, DEHP and DI P into ANNEX II of the Rohs Recast Directive. The new law restricts each phthalate to no more than 0.1 in each homogeneous material of an electrical product.
- (5) The restriction of DEHP, P, D P and DI P shall apply to medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, from 22 Jul 2021.
- () The restriction of DEHP, P, D P and DI P shall not apply to cables or spare parts for the repair, the reuse, the updating of functionalities or upgrading of capacity of EEE placed on the market before 22 Jul 2019, and of medical devices, including in vitro medical devices, and monitoring and control instruments, including industrial monitoring and control instruments, placed on the market before 22 Jul 2021.
- (7) The restriction of DEHP, P and D P shall not apply to products which are already subject to the restriction of DEHP, P and D P through entry 51 of Annex II to Regulation (EC) No 1907/2006.

ATTACHMENT

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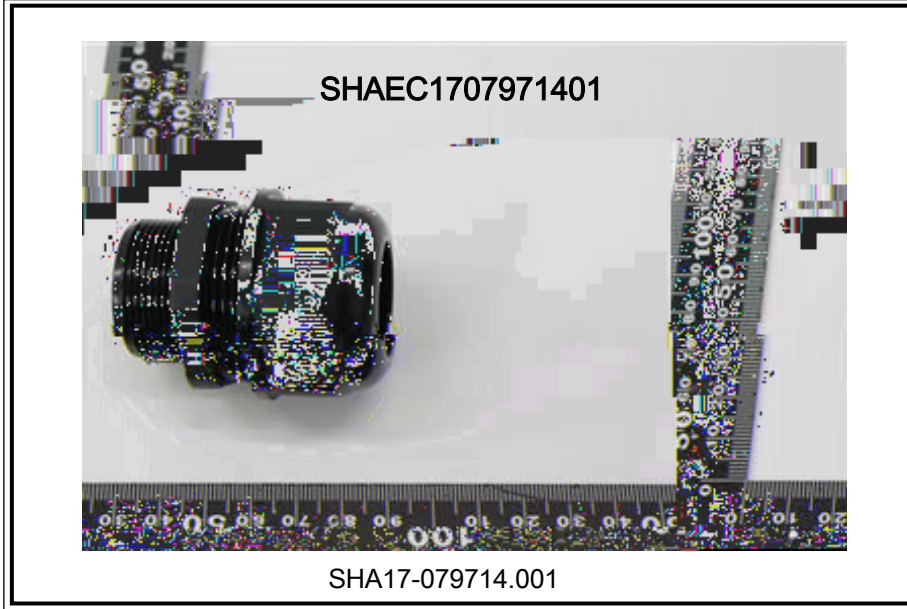
name of the person who made testing in Gar Sean Sielina Song
 name of the person in charge of testing in Shanghai Shira Song
 These samples were dissolved totally by re-conditioning method according to below flow chart
 Criteria and test methods are detailed



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Sample photo:



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End of Report



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