



中国认可
国际互认
检测
TESTING
CNAS L9334

Test Report

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Client Information: Shenzhen Esun Industrial Co.,Ltd

Client Address: Wuhan University Building A403-I, No. 6 YueXing 2 Road, NanShan District, Shenzhen

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

Date of Sample Received: 2020-07-27

Testing Period: 2020-07-27~2020-08-04

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

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

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

Conclusion: Based on the performed tests on selected part of submitted sample(s), the results of Lead, Mercury, Cadmium, Hexavalent chromium, Polybrominated biphenyls (PBBs), Polybrominated diphenyl ethers (PBDEs) and Phthalates such as Bis(2-ethylhexyl) phthalate (DEHP), Butyl benzyl phthalate (BBP), Dibutyl phthalate (DBP), and Diisobutyl phthalate (DIBP) comply with the limits as set by RoHS Directive (EU) 2015/863 amending Annex II to Directive 2011/65/EU.



Complied by: *Shuang Li* **Verified by:** *Casina Min*

Approved by: *Buz Hou* **Issued Date:** 2020-08-04

Shanghai Micro-spectral Chemical Analysis and Test technology Co.,Ltd.



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Test Part Description:

| <u>No.</u> | <u>Name</u> | <u>Sample ID</u> | <u>Description</u> |
|------------|-------------|------------------|--------------------|
| 001 | ABS | 200712077-1 | Red plastic |

Test Method and Apparatus:

| <u>Test Items</u> | <u>Test method</u> | <u>Apparatus</u> |
|-------------------------------------|--------------------|------------------|
| Lead(Pb) | IEC 62321-5: 2013 | ICP-OES |
| Cadmium(Cd) | IEC 62321-5: 2013 | ICP-OES |
| Mercury(Hg) | IEC 62321-4: 2013 | ICP-OES |
| Hexavalent Chromium(Cr(VI)) | IEC 62321-7-2:2017 | UV-Vis |
| Sum of PBBsand PBDEs | IEC 62321-6:2015 | GC-MS |
| Dibutyl phthalate(DBP) | IEC 62321-8:2017 | GC-MS |
| Butyl benzyl phthalate (BBP) | IEC 62321-8:2017 | GC-MS |
| Bis (2-ethylhexyl) phthalate (DEHP) | IEC 62321-8:2017 | GC-MS |
| Diisobutyl Phthalates (DIBP) | IEC 62321-8:2017 | GC-MS |

Test Results:

| <u>Test Items</u> | <u>Unit</u> | <u>MDL</u> | <u>Limit</u> | <u>001</u> |
|------------------------------|-------------|------------|--------------|------------|
| Lead(Pb) | mg/kg | 2 | 1000 | N.D. |
| Cadmium(Cd) | mg/kg | 2 | 100 | N.D. |
| Mercury (Hg) | mg/kg | 2 | 1000 | N.D. |
| Hexavalent Chromium (Cr(VI)) | mg/kg | 8 | 1000 | N.D. |
| Sum of PBBs | mg/kg | - | 1000 | N.D. |
| Monobromobiphenyl | mg/kg | 5 | - | N.D. |
| Dibromobiphenyl | mg/kg | 5 | - | N.D. |
| Tribromobiphenyl | mg/kg | 5 | - | N.D. |
| Tetrabromobiphenyl | mg/kg | 5 | - | N.D. |
| Pentabromobiphenyl | mg/kg | 5 | - | N.D. |
| Hexabromobiphenyl | mg/kg | 5 | - | N.D. |

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| <u>Test Items</u> | <u>Unit</u> | <u>MDL</u> | <u>Limit</u> | <u>001</u> |
|-------------------------------------|-------------|------------|--------------|------------|
| Heptabromobiphenyl | mg/kg | 5 | - | N.D. |
| Octabromobiphenyl | mg/kg | 5 | - | N.D. |
| Nonabromobiphenyl | mg/kg | 5 | - | N.D. |
| Decabromobiphenyl | mg/kg | 5 | - | N.D. |
| Sum of PBDEs | mg/kg | - | 1000 | N.D. |
| Monobromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Dibromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Tribromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Tetrabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Pentabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Hexabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Heptabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Octabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Nonabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Decabromodiphenyl ether | mg/kg | 5 | - | N.D. |
| Dibutyl phthalate (DBP) | mg/kg | 50 | 1000 | N.D. |
| Butyl benzyl phthalate (BBP) | mg/kg | 50 | 1000 | N.D. |
| Bis (2-ethylhexyl) phthalate (DEHP) | mg/kg | 50 | 1000 | N.D. |
| Diisobutyl Phthalates (DIBP) | mg/kg | 50 | 1000 | N.D. |

Remarks:

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

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Sample picture(s):



End of the Report

DISCLAIMER:

- 1.The report is invalid without the stamp of special seal for test or without the signature of the compiler, the inspector and the approver.
- 2.No unauthorized changes, additions or deletions shall be made to the report.
- 3.Neither fragmented report nor its incomplete copy shall be deemed valid. The complete copy is invalid without the stamp of special seal for test.
- 4.Any queries on the report shall be presented to Shanghai Micro-spectral Chemical Analysis and Test technology Co.,Ltd. within 15 working days after receipt of the report.
- 5.The results described here in this report are based on the sample(s) tested.
- 6.The client takes full responsible for the truthfulness of the testing sample(s) and information related thereto.

