

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:

Caina 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	PLA	200712074-1	Transparent 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 madeto 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-special Chemical Analysisand Test technology Co.,Ltd. within 15 working days afterreceipt 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.

