

Report No. AL2105256001EN Approved date: May. 12, 2021

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Client TONGFU MICROELECTRONICS CO.,LTD.

Address NO.288,CHONGCHUAN ROAD,CHONGCHUAN ECONOMIC DEVELOPMENT

AREA, NANTONG, JIANGSU, P.R. CHINA.

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

Sample Name TSSOP20

Test Part 1. Silvery metal 2. Black body

.....

Date Received Apr. 29, 2021

Test Period Apr. 29, 2021 to May. 7, 2021

Test Request 1. Silvery metal:

To determiner the contents of Lead (Pb), Cadmium (Cd), Mercury (Hg), Hexavalent Chromium (Cr(VI)), Perfluorooctane Sulfonates (PFOS), Perfluorooctanoic Acid (PFOA), Beryllium oxide, Beryllium copper, Antimony (Sb) in the received sample(s).

2. Black body:

To determine the contents of Pb,Cd,Hg,Hexavalent Chromium (Cr(VI)),PBBs,PBDEs,Sb, F,Cl,Br,I,PCBs,PCNs,PCTs,SCCP,TBT,TPT,DBT, DOT,Asbestos,Specific azo compounds, Formaldehyde,PVC and PVC compound,Beryllium oxide,Beryllium copper, DEHP,DBP,BBP,DINP,DIDP,DNOP,DNHP,DIHP,DHNUP,DMEP,HFC,PFC,UV320 (Specific benzotriazole),PFOS,PFOA, Cobalt dichloride, Ozonosp here destroy substance, DMF, Tris (2-chloroethyl) phosphate (T CEP), Hexabromocyclododecane (HBCDD), Diarsenic trioxide, D iarsenic pentaoxide, Boric acid, specific sodium borates, Diisobu tyl phthalate (DIBP), 4-(1,1,3,3-tetramethylbutyl)phenol, Bis(2-met hoxyethyl)ether-d14, DMAC, EGDME in the received sample(s).

For more information about the test, please refer to the following pages.

Compiled

Ву

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Checked

Zhu Zheng feng

对ang He

Shanghai Lelangtek Testing Technology Co., Ltd.(2nd Floor, Building 4, No.158, Jinfeng Road, Pudong District, Shanghai)

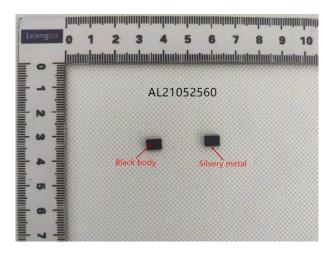
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Sample Photo(s)



Lelangtek authenticated the photo on original report only

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Test Result

Test Item	Result(mg/kg)	MDL
iest item	Silvery metal	Black body	(mg/kg)
Lead (Pb)	ND	ND	2
Cadmium (Cd)	ND	ND	2
Mercury (Hg)	ND	ND	2
House solout Characterium (Ca(VIIV)	/	ND	8
Hexavalent Chromium (Cr(VI))	Negative#	/	See note 4
Polybrominated Biphenyls (PBBs)			
Monobromobiphenyls	/	ND	5
Dibromobiphenyls	/	ND	5
Tribromobiphenyls	/	ND	5
Tetrabromobiphenyls	/	ND	5
Pentabromobiphenyls	/	ND	5
Hexabromobiphenyls	/	ND	5
Heptabromobiphenyls	/	ND	5
Octabromobiphenyls	/	ND	5
Nonabromobiphenyls	/	ND	5
Decabromobiphenyls	/	ND	5
Polybrominated Biphenyls (PBBs) total	/	ND	
Polybrominated Diphenyl Ethers (PBDEs)			
Monobromodiphenyl ethers	/	ND	5
Dibromodiphenyl ethers	/	ND	5
Tribromodiphenyl ethers	/	ND	5
Tetrabromodiphenyl ethers	/	ND	5
Pentabromodiphenyl ethers	/	ND	5
Hexabromodiphenyl ethers	/	ND	5
Heptabromodiphenyl ethers	/	ND	5
Octabromodiphenyl ethers	/	ND	5
Nonabromodiphenyl ethers	/	ND	5
Decabromodiphenyl ethers	/	ND	5
Polybrominated Diphenyl ethers (PBDEs) total	/	ND	

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Total Manage	Result(mg/kg)		MDL
Test Item	Silvery metal	Black body	(mg/kg)
PCBs		ND	10
PCNs		ND	10
PCTs		ND	10
SCCP		ND	10
ТВТ	/	ND	10
TPT		ND	10
DBT		ND	10
DOT		ND	10

Total Maria	Result(mg/kg)		MDL
Test Item	Silvery metal	Black body	(%)
Asbestos			
Anthrophyllite		ND	1
Crocodolite		ND	1
Amosite]	ND	1
Tremolite	/	ND	1
Chrysotile		ND	1
Actinolite		ND	1

	Result(mg/kg)		MDL
Test Item	Silvery metal	Black body	(mg/kg)
Azo compounds			
4-Aminodiphenyl		ND	5
Benzidine		ND	5
4-Chloro-o-toluidine		ND	5
2-Naphthylamine	/	ND	5
O-Aminoazotoluene		ND	5
P-Chloroaniline		ND	5
2,4-Diaminoanisole		ND	5

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	Result(Result(mg/kg)	
Test Item	Silvery metal	Black body	(mg/kg)
Azo compounds			
4,4'-Diaminodiphenylmethane		ND	5
3,3'-Dichlorobenzidine		ND	5
3,3'-Dimethoxybenzidine		ND	5
3,3'-Dimethylbenzidine		ND	5
3,3'-Dimethyl-4,4'-diaminodi phenylmetha		ND	5
P-Cresidine(2-methoxy-5-m ethylaniline)		ND	5
4,4'-Methylene-bis-(2-chloc oaniline)		ND	5
4,4¹-Oxydianiline		ND	5
4,4'-Thiodianiline		ND	5
O-Toluidine		ND	5
2,4-Toluylenediamine		ND	5
2,4,5-Trimethylaniline		ND	5
O-Anisidine		ND	5
5-Nitro-o-toluidine		ND	5
4-Aminoazobenzene		ND	5
2,4-Dimethylaniline		ND	5
2,6-Dimethylaniline		ND	5

Took Mount	Result(Result(mg/kg)	
Test Item	Silvery metal	Black body	(mg/kg)
Formaldehyde		ND	5
PVC and PVC compound	/	Not contain	/
Beryllium oxide	ND	ND	2
Beryllium copper	ND	ND	2
Fluorine(F)		ND	50
Chlorine(Cl)	/	ND	50
Bromine(Br)		ND	50

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lodine(I)		ND	50
Antimony (Sb)	ND	ND	2
Test Item	Result(mg/kg)	MDL
iest item	Silvery metal	Black body	(mg/kg)
Phthalates(PAEs)			
Di(2-ethylhexyl) phthalate (DEHP)		ND	50
Dibutyl phthalate(DBP)		ND	50
Butyl benzyl phthalate (BBP)		ND	50
Di-isononyl phthalate(DINP)		ND	50
Di-iso-decyl phthalate(DIDP)		ND	50
Di-n-octyl phthalate(DNOP)	7	ND	50
Di-n-hexyl phthalate (DNHP)	,	ND	50
Di-isobutyl Phthalate(DIBP)	7	ND	50
Diphenyliodonium hexafluorophosphate		ND	50
(DIHP)		ND	30
1,2-Benzenedicarboxylic acid,di-C7-11-		ND	F0
branched and linear alkyl esters(DHNUP)		ND	50
1,2-Benzenedicarboxylic acid,butyl methyl		ND	50
ester(DMEP)			

Test Item	Result(mg/kg)		MDL
rest item	Silvery metal	Black body	(mg/kg)
HFC			
HFC-23		ND	1
HFC-32		ND	1
HFC-41		ND	1
HFC-43-10mee	/	ND	1
HFC-125		ND	1
HFC-134		ND	1

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	Result(mg/kg)	MDL
Test Item	Silvery metal	Black body	(mg/kg)
HFC-134a		ND	1
HFC-143		ND	1
HFC-143a		ND	1
HFC-152a		ND	1
HFC-227ea		ND	1
HFC-236fa		ND	1
HFC-236ea		ND	1
HFC-245ea		ND	1
HFC-245fa		ND	1
HFC-365mfc		ND	1
PFC		ND	1
F14		ND	1
Fluorocarbon 116		ND	1
Freon 218		ND	1
Decafluorobutane		ND	1
Freon C318		ND	1
Perfluor-1-butane		ND	1
Perfluorisobutane		ND	1
1,4-Dihydroctafluorobutane		ND	1
Nonafluor-2-(trifluorpmethyl)butane		ND	1
Perfluoro-n-pentane		ND	1
2-Perfluoromethylpentane		ND	1
Perfluorohexane		ND	1
UV320(Specific benzotriazole)		ND	1
Cobalt dichloride		ND	2
Ozonosphere destroy substance			
CFCs		ND	10
Carbon Tetrachloride		ND	10
1,1,1-Trichloroethane	/	ND	10
Halons		ND	10

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	Result	Result(mg/kg)	
Test Item	Silvery metal	Black body	(mg/kg)
HCFCs		ND	10
Bromomethane		ND	10
HBFCs		ND	10
Perfluorooctane sulphonate (PFOS)	ND	ND	0.01
Perfluorooctanoic Acid(PFOA)	ND	ND	0.01
DMF		ND	10
TCEP		ND	10
Hexabromocyclododecane (HBCDD)		ND	10
Diarsenic trioxide, Diarsenic pentaoxide		ND	2
Boric acid, specific sodium borates	/	ND	2
4-(1,1,3,3-tetramethylbutyl)phenol		ND	50
Bis(2-methoxyethyl)ether-d14		ND	50
DMAC		ND	50
EGDME		ND	50

Note:

- (1) The sample(s) had been dissolved totally tested for Lead, Cadmium, Mercury.
- (2) ND=Not detected (Below the detection limit);
- (3) mg/kg = ppm=parts per million.
- (4) # = Testing Cr⁶⁺ by IEC 62321:2008 Annex B and the result is showed as Positive/Negative Negative = Absence of Cr⁶⁺, which means that the Cr⁶⁺ concentration in extraction solution is less than 0.02 mg/kg with 50 cm² sample surface area Positive = Presence of Cr⁶⁺, which means that the Cr⁶⁺ concentration in extraction solution is equal or greater than 0.02 mg/kg with 50 cm² sample surface area.

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Test Method

Test Item	Test Method	Measured Equipment
Load (Dh.) Cadrainna (Cd.)	IEC 62321-3-1:2013 & IEC	VDE 8 ICD OFC
Lead (Pb), Cadmium (Cd)	62321-5:2013	XRF&ICP-OES
Maraum (Ha)	IEC 62321-3-1:2013 & IEC	VDE 8 ICD OFC
Mercury (Hg)	62321-4:2018	XRF&ICP-OES
House solout Chromium (Cr/VIII)	IEC62321 Edition 1.0:2008	UV-Vis
Hexavalent Chromium (Cr(VI))	IEC 62321-7-2:2017	UV-Vis
Polybrominated biphenyls (PBBs)	IEC (2224 C-204E	GC-MS
Polybrominated diphenyl ethers (PBDEs)	IEC 62321-6:2015	GC-MS
PCBs	EPA 8082A	GC-MS
PCNs	EPA 8082A	GC-MS
PCTs	EPA 8082A	GC-MS
SCCP	EPA 3540C	GC-MS
ТВТ	DIN 38407-13	GC
TPT	DIN 38407-13	GC
DBT	DIN 38407-13	GC
DOT	DIN 38407-13	GC
Asbestos	Niosh Method 9000,issue 2	X-ray Diffraction
Azo compounds	35 LMBG	GC-MS
Formaldehyde	ISO/TS 17226:2003(E)	HPLC
PVC and PVC compound		Fourier ransform
r ve and r ve compound	-	Infrared Spectra
Beryllium oxide		ICP-OES
Beryllium copper		ICP-OES
Fluorine(F), Chlorine(Cl),	EN 14582:2016	IC
Bromine(Br),Iodine(I)	EN 14362.2010	ic
Antimony (Sb)	GB/T 5121.12-2008	ICP-OES
Phthalates	IEC 62321-8: 2017	GC-MS
HFC	EPA8260B	GC-MS
UV320(Specific benzotriazole)		GC-MS

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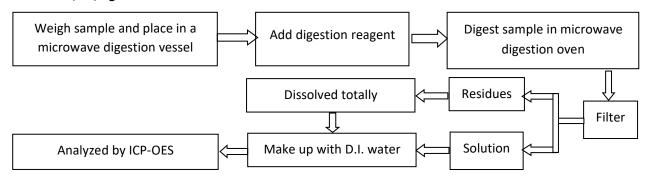
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Test Item	Test Method	Measured Equipment
Cobalt dichloride		ICP-OES
Ozonosphere destroy substance	EPA8260B	GC-MS
Perfluorooctane Sulfonates(PFOS)	CEN /TS 15069,2010	LC-MS-MS
Perfluorooctanoic Acid(PFOA)	CEN/TS 15968:2010	LC-IVIS-IVIS
DMF		GC
TCEP	EPA 3540C	GC-MS
Hexabromocyclododecane (HBCDD)	EPA 3540C	GC-MS
Diarsenic trioxide, Diarsenic pentaoxide	EPA3052	ICP-OES
Boric acid, specific sodium borates	EPA3052	ICP-OES
4-(1,1,3,3-tetramethylbutyl)phenol	EPA 3540C	GC-MS
Bis(2-methoxyethyl)ether-d14	EPA 3540C	GC-MS
DMAC	EPA 3540C	GC-MS
EGDME	EPA 3540C	GC-MS

Test Flow Chart

Test for Pb/Cd/Hg Content



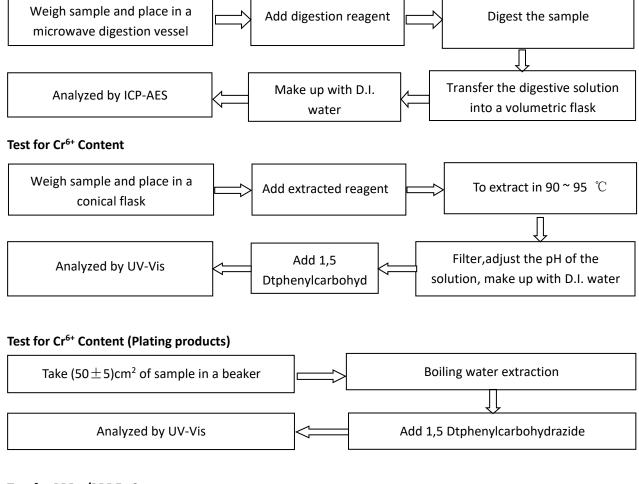
Test for Pb/Cd/Hg Content (Metal)

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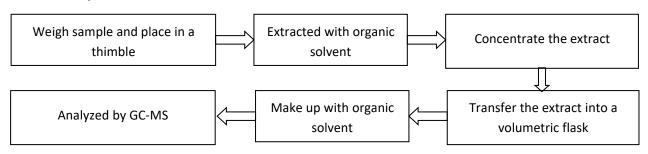


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Test for PBBs /PBDEs Content



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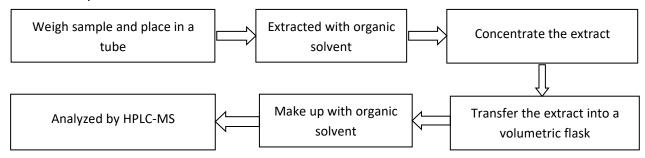


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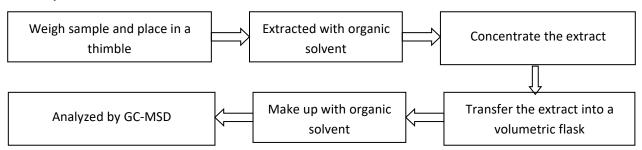
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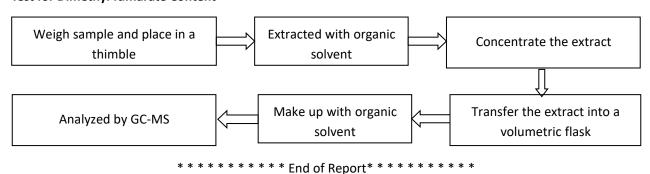
Test for PFOA, PFOS Content



Test for phthalates Content



Test for Dimethyl fumarate Content



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- (4) If you have any question or concern to this report, please contact us within 10 days, or it will not be accepted out of the time.

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