



上海出入境检验检疫局
机电产品检测技术中心
Machinery & Electrical Products Testing Center
Shanghai Entry-Exit Inspection and Quarantine Bureau

TEST REPORT

NUMBER: 201606292083

DATE: Aug. 9, 2016

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ORIGINAL

APPLICANT: NANTONG FUJITSU MICROELECTRONICS CO., LTD.
ADDRESS: NO.288, Chongchuan Road, Chongchuan Economic Development Area,
Nantong, Jiangsu, P.R.China

SAMPLE DESCRIPTION: The following samples were submitted and identified by the applicant as:

- Sample Name: DFN6、DFN8
1. silvery metal
 2. black plastic

TEST REQUESTED:

1. silvery metal: To determine the contents of lead (Pb), mercury (Hg), hexavalent chromium (Cr⁶⁺), cadmium (Cd), PFOA, PFOS, Sb.
2. black plastic: To determine the contents of Pb, Cd, Hg, Cr⁶⁺, PBBs, PBDEs, DEHP, DBP, BBP, DINP, DIDP, DNOP, DNHP, DIBP, DnPP, PFOS, PFOA, Hexabromocyclododecane (HBCDD), Sb, F, Cl, Br, I,

TEST METHOD: Please refer to the next pages.

TESTING PERIOD: Aug. 3, 2016 –Aug. 9, 2016

RESULT: Please refer to next pages.

Authorized sign: _____

DAI XUEWEI



NOTE: ALL TEST RESULTS ARE ONLY VALID FOR THE SAMPLES BEING TESTED. THIS TEST REPORT SHALL NOT BE REPRODUCED EXCEPT IN FULL, WITHOUT THE WRITTEN APPROVAL OF THE TESTING LABORATORY.



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TEST RESULTS:

Testing Item	Equipment	Test Method	Test Result		
			Sample 1	Sample 2	
Pb	AAS	IEC62321-5: 2013	21 mg/kg (<1 mg/kg)	N.D.(<1 mg/kg)	
Cd	AAS	IEC62321-5: 2013	N.D.(<1 mg/kg)	N.D.(<1 mg/kg)	
Hg	ICP-OES	IEC62321-4: 2013	N.D.(<1 mg/kg)	N.D.(<1 mg/kg)	
Cr ⁶⁺	UV	IEC62321 Edition 1.0: 2008	Negative #	N.D.(<1 mg/kg)	
PBBs	-	-		-	
Bromobiphenyl	GC-MS	IEC62321-6: 2015	No requested	N.D.(<5 mg/kg)	
Dibromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Tribromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Tetrabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Pentabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Hexabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Heptabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Octabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Nonabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
Decabromobiphenyl	GC-MS	IEC62321-6: 2015		N.D.(<5 mg/kg)	
PBDEs	-	-			-
Bromodiphenyl ether	GC-MS	IEC62321-6: 2015		No requested	N.D.(<5 mg/kg)
Dibromodiphenyl ether	GC-MS	IEC62321-6: 2015			N.D.(<5 mg/kg)
Tribromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Tetrabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Pentabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Hexabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Heptabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Octabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Nonabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		
Decabromodiphenyl ether	GC-MS	IEC62321-6: 2015	N.D.(<5 mg/kg)		



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TEST RESULTS:

Testing Item	Equipment	Test Method	Test Result	
			Sample 1	Sample 2
DEHP	GC-MS	IEC62321-8(111/321/CD)	No requested	N.D.(< 50 mg/kg)
DBP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
BBP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
DINP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
DIDP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
DNOP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
DNHP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
Diisobutyl phthalate (DIBP)	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
DnPP	GC-MS	IEC62321-8(111/321/CD)		N.D.(< 50 mg/kg)
PFOS	LCMS	EPA 3540C	N.D.(< 2 mg/kg)	N.D.(< 2 mg/kg)
PFOA	LCMS	EPA 3540C	N.D.(< 2 mg/kg)	N.D.(< 2 mg/kg)
Hexabromocyclododecane (HBCDD)	GC-MS	EPA 3540C		N.D.(< 1 mg/kg)
F	IC	EN 14582: 2007	No requested	N.D.(< 10 mg/kg)
Cl	IC	EN 14582: 2007		48 mg/kg (< 10 mg/kg)
Br	IC	EN 14582: 2007		N.D.(< 10 mg/kg)
I	IC	EN 14582: 2007		N.D.(< 10 mg/kg)
Sb	ICP-OES	-	N.D.(< 2 mg/kg)	N.D.(< 2 mg/kg)

REMARK:

= 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

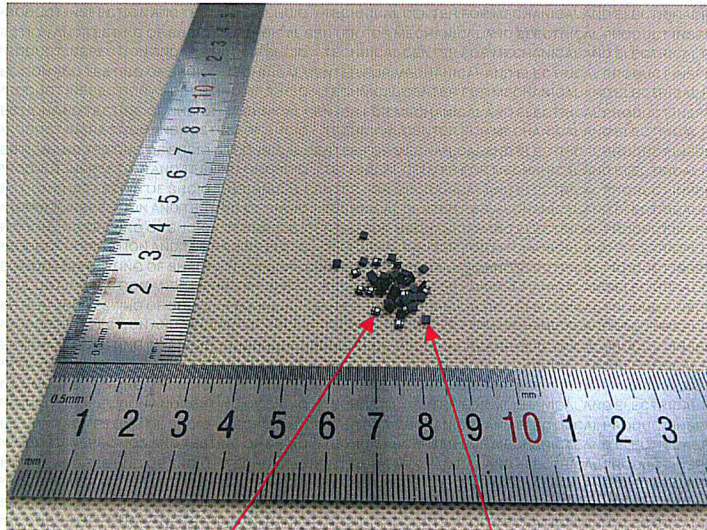
mg/kg = ppm ; ND = Not detected



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Sample photo



Silvery metal

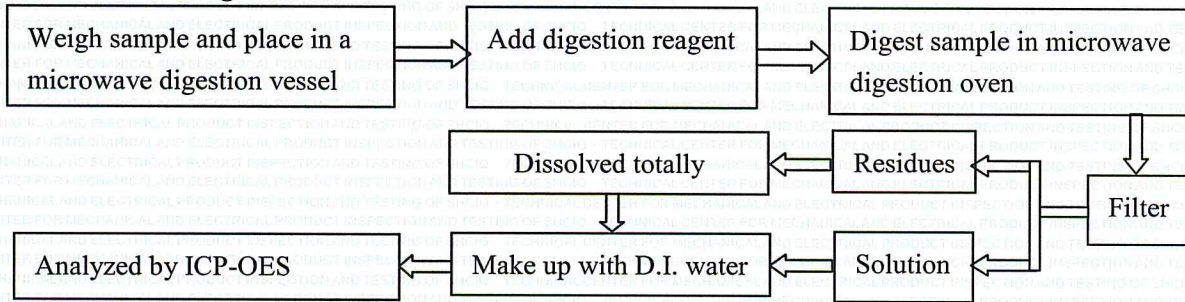
Black plastic

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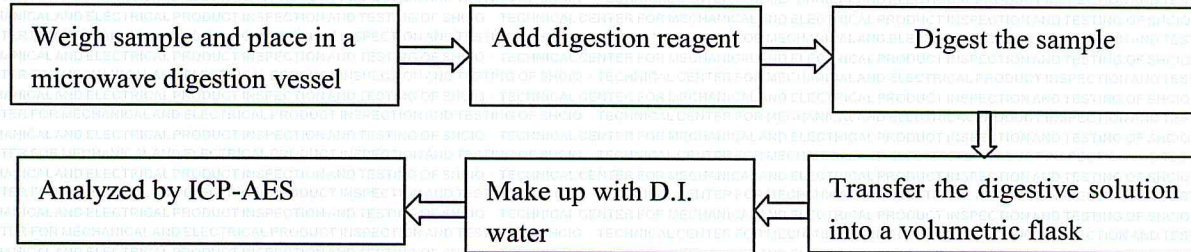
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Test Process:

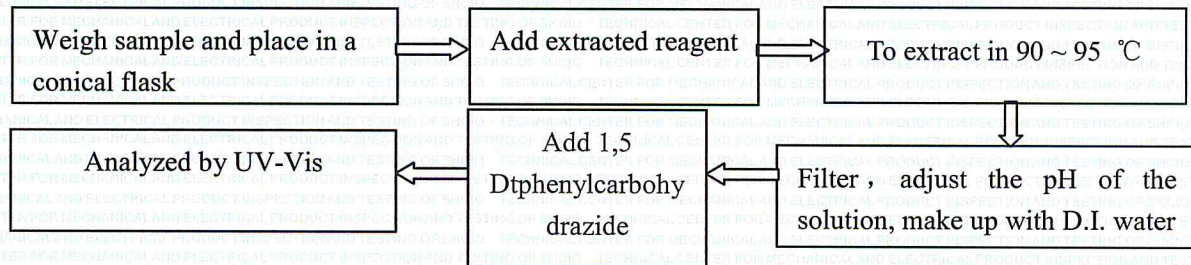
Test for Pb/Cd/Hg Content.



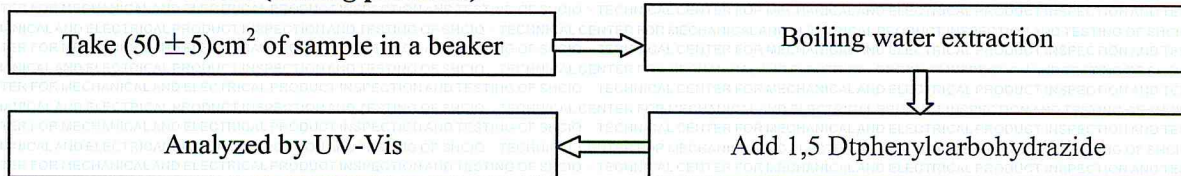
Test for Pb/Cd/Hg Content (Metal).



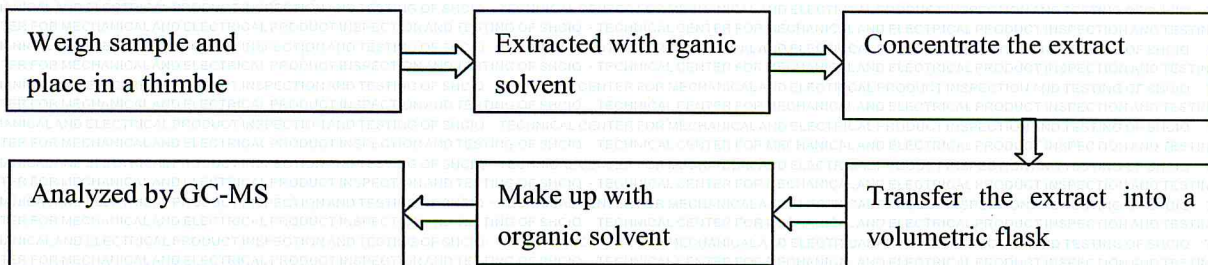
Test for Cr⁶⁺ Content.



Test for Cr⁶⁺ Content (Plating products).



Test for PBBs /PBDEs Content.



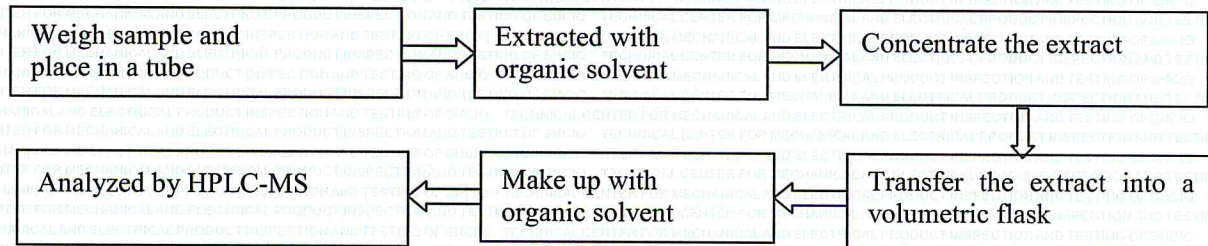


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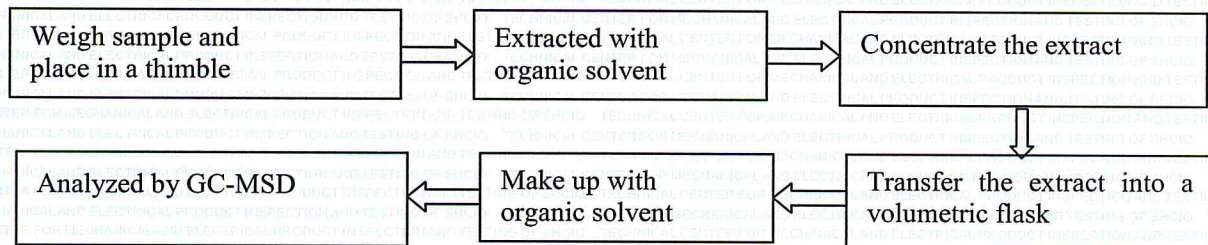
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Test Process :

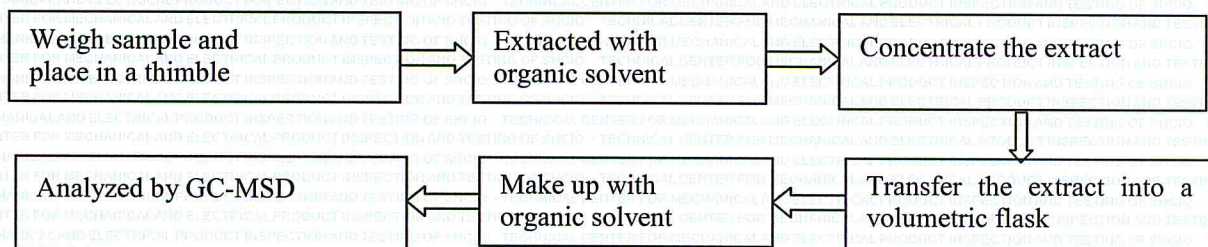
Test for PFOA, PFOS Content.



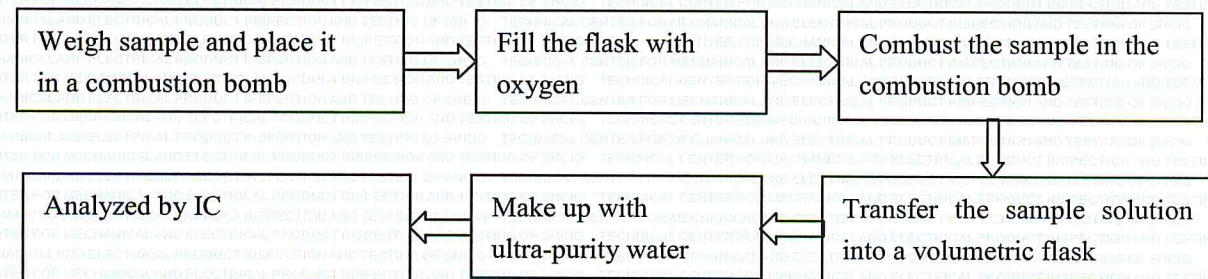
Test for phthalates Content.



Test for HBCDD Content.



Test for Halogen (F, Cl, Br, I) Content.



*****End of Report*****