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TECSTAR TECHNOLOGY CO., LTD. NO. 7, ALLEY 22, LANE 813, KOUSHIN RD., YANGMEI TAOYUAN, TAIWAN

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

Sample Description	:	MULTILAYER FERRITE CHIP BEAD
Style/Item No.	:	BEAD SERIES
Sample Receiving Date	:	2012/12/27
Testing Period	:	2012/12/27 TO 2013/01/03

Test Result(s)

: Please refer to next page(s).



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Test Result(s)

PART NAME No.1

: MULTILAYER FERRITE CHIP BEAD

Test Item(s)	Unit	Method	MDL	Result
	Unit			No.1
Cadmium (Cd)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321: 2008 and performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI)	mg/kg	With reference to IEC 62321: 2008 and performed by UV-VIS.	2	n.d.
Hexabromocyclododecane (HBCDD) (CAS No.: 25637-99-4)	mg/kg	With reference to US EPA 3540C method. Analysis was performed by GC/MS.	5	n.d.
BBP (Benzyl butyl phthalate) (CAS No.: 85-68-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DBP (Dibutyl phthalate) (CAS No.: 84-74-2)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
DEHP (Di- (2-ethylhexyl) phthalate) (CAS No.: 117-81-7)	%	With reference to EN 14372. Analysis was performed by GC/MS.	0.003	n.d.
Halogen				
Halogen-Fluorine (F) (CAS No.: 14762-94-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Chlorine (CI) (CAS No.: 22537-15-1)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Bromine (Br) (CAS No.: 10097-32-2)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.
Halogen-Iodine (I) (CAS No.: 14362-44-8)	mg/kg	With reference to BS EN 14582:2007. Analysis was performed by IC.	50	n.d.

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Result Test Item(s) Unit Method MDL No.1 Sum of PBBs n.d. Monobromobiphenyl 5 n.d. Dibromobiphenyl 5 n.d. Tribromobiphenyl 5 n.d. 5 Tetrabromobiphenyl n.d. 5 Pentabromobiphenyl n.d. 5 Hexabromobiphenyl n.d. 5 Heptabromobiphenyl n.d. Octabromobiphenyl 5 n.d. 5 Nonabromobiphenyl n.d. Decabromobiphenyl 5 n.d. With reference to IEC 62321: 2008 and mg/kg performed by GC/MS. Sum of PBDEs _ n.d. Monobromodiphenyl ether 5 n.d. Dibromodiphenyl ether 5 n.d. 5 n.d. Tribromodiphenyl ether 5 Tetrabromodiphenyl ether n.d. Pentabromodiphenyl ether 5 n.d. 5 Hexabromodiphenyl ether n.d. 5 Heptabromodiphenyl ether n.d. Octabromodiphenyl ether 5 n.d. Nonabromodiphenyl ether 5 n.d. Decabromodiphenyl ether 5 n.d.

Note :

1. mg/kg = ppm ; 0.1wt% = 1000ppm

2. n.d. = Not Detected

3. MDL = Method Detection Limit

4. " - " = Not Regulated

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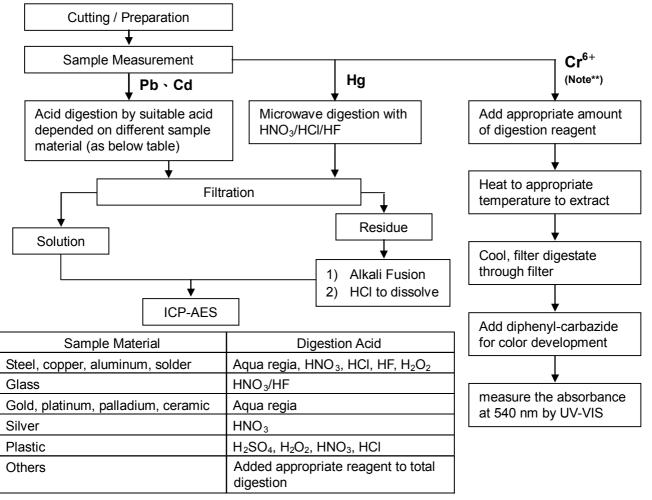


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- 1) These samples were dissolved totally by pre-conditioning method according to below flow chart. (Cr^{6+} test method excluded)
- 2) Name of the person who made measurement: Climbgreat Yang
- 3) Name of the person in charge of measurement: Troy Chang



Note** : (1) For non-metallic material, add alkaline digestion reagent and heat to 90~95 °C.
(2) For metallic material, add pure water and heat to boiling.

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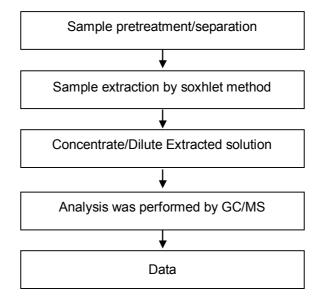


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TECSTAR TECHNOLOGY CO., LTD. NO. 7, ALLEY 22, LANE 813, KOUSHIN RD., YANGMEI TAOYUAN, TAIWAN

HBCDD analytical flow chart

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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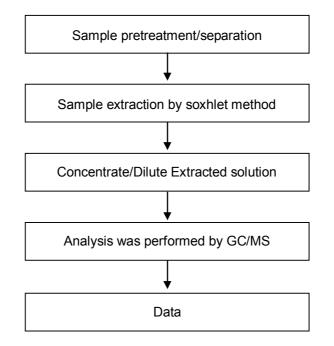


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Analytical flow chart of phthalate content

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



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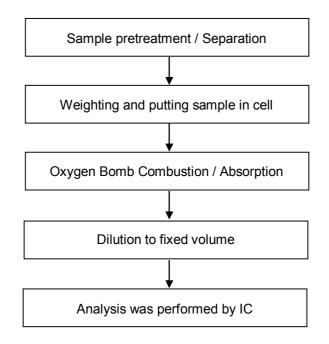


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Analytical flow chart of halogen content

- 1) Name of the person who made measurement: Rita Chen
- 2) Name of the person in charge of measurement: Troy Chang



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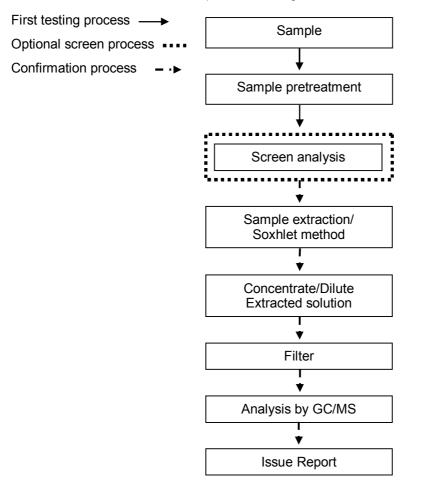


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PBB/PBDE analytical FLOW CHART

- Name of the person who made measurement: Roman Wong
- Name of the person in charge of measurement: Troy Chang



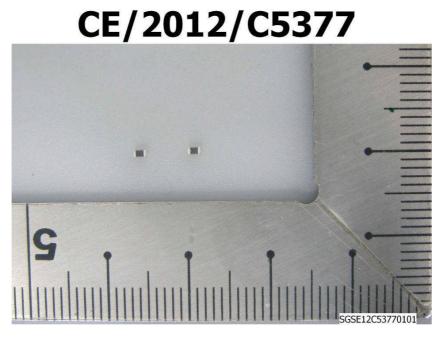
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* The tested sample / part is marked by an arrow if it's shown on the photo. *



** End of Report **

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