

Test Report No. 2311840

Date : 15-Sep-2012

Page 1 of 6

**Client : CGA Co.,Ltd.
1213/298 Ladpraw Road
Phlapphla ,Wangthonglang Bangkok 10310 Thailand**

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

Sample Description : PVC END CAP
 Sample No. : 2385952
 Sample Condition : As per attached photograph
 For Part Name : END CAP, RUBBER CAP, PVC CAP, CLOSE END
 Manufacturer/Vendor : CGA CO., LTD.

Sample Receiving Date : 12-Sep-2012
 Testing Period : 12-Sep-2012 to 15-Sep-2012

Test Requested : In accordance with the RoHS Directive 2011/65/EU Annex II ; recasting 2002/95/EC

Test Method : (1) In-house method LBTY-07400 with reference to IEC 62321 Ed.1:2008 for Lead content, Analyzed by ICP-OES.
 (2) In-house method LBTY-07400 with reference to IEC 62321 Ed.1:2008 for Cadmium content, Analyzed by ICP-OES.
 (3) In-house method LBTY-07400 with reference to IEC 62321 Ed.1:2008 for Mercury content, Analyzed by ICP-OES.
 (4) In-house method LBTY-07399 with reference to IEC 62321 Ed.1:2008 for Hexavalent Chromium by Alkaline Digestion / Colorimetric Method, Analyzed by UV-Vis Spectrometry.
 (5) In-house method Lbfd-08466 with reference to IEC 62321 Ed.1:2008 for PBB/PBDE content, Analyzed by GC/MS.

Test Results : Please refer to next page.

**Signed for and on behalf of
SGS (Thailand) Limited**



**Pornpana Lirathpong
Hardlines Testing Manager**

2013553

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request.
 Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Lead (Pb)	(1)	2	2	1000
Cadmium (Cd)	(2)	n.d.	2	100
Mercury (Hg)	(3)	n.d.	2	1000
Hexavalent Chromium (CrVI) by Alkaline Digestion/Colorimetric Method	(4)	n.d.	2	1000

Test Part Description

Result (1) black plastic + red plastic + translucent yellow plastic = 1:1:1 by weight as per client request

Note :

(a) mg/kg = ppm ; 0.1wt% = 1000 ppm

(b) n.d. = Not Detected

(c) MDL = Method Detection Limit

(d) Test was conducted on composite sample as per client's request and the test result is the overall result of a composite sample. Therefore, no reference can be made to the result of each component in the composite sample.

The composite result indicated that submitted samples may have the probability of one or more components exceeding the requirement, it is recommended to test on individual basis.

2013553

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Test Report No. 2311840

Date : 15-Sep-2012

Page 3 of 6

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
sum of PBBs	(5)	n.d.	-	1000
Monobromobiphenyl		n.d.	5	-
Dibromobiphenyl		n.d.	5	-
Tribromobiphenyl		n.d.	5	-
Tetrabromobiphenyl		n.d.	5	-
Pentabromobiphenyl		n.d.	5	-
Hexabromobiphenyl		n.d.	5	-
Heptabromobiphenyl		n.d.	5	-
Octabromobiphenyl		n.d.	5	-
Nonabromobiphenyl		n.d.	5	-
Decabromobiphenyl		n.d.	5	-

2013553

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Test Report No. 2311840

Date : 15-Sep-2012

Page 4 of 6

TEST RESULTS

Test results by chemical method (Unit: mg/kg)

Test Item (s):	Method (Refer to)	Result (1)	MDL	RoHS Limit
Sum of PBDEs	(5)	n.d.	-	1000
Monobromodiphenyl ether		n.d.	5	-
Dibromodiphenyl ether		n.d.	5	-
Tribromodiphenyl ether		n.d.	5	-
Tetrabromodiphenyl ether		n.d.	5	-
Pentabromodiphenyl ether		n.d.	5	-
Hexabromodiphenyl ether		n.d.	5	-
Heptabromodiphenyl ether		n.d.	5	-
Octabromodiphenyl ether		n.d.	5	-
Nonabromodiphenyl ether		n.d.	5	-
Decabromodiphenyl ether		n.d.	5	-

Test Part Description

Result (1) black plastic + red plastic + translucent yellow plastic = 1:1:1 by weight as per client request

Note :

- (a) mg/kg = ppm ; 0.1 wt% = 1000 ppm
- (b) n.d. = Not Detected
- (c) MDL = Method Detection Limit
- (d) "-" = Not regulated
- (e) Test done on client submitted sample
- (f) Test was conducted on composite sample as per client's request and the test result is the overall result of a composite sample. Therefore, no reference can be made to the result of each component in the composite sample.

The composite result indicated that submitted samples may have the probability of one or more components exceeding the requirement, it is recommended to test on individual basis.

2013553

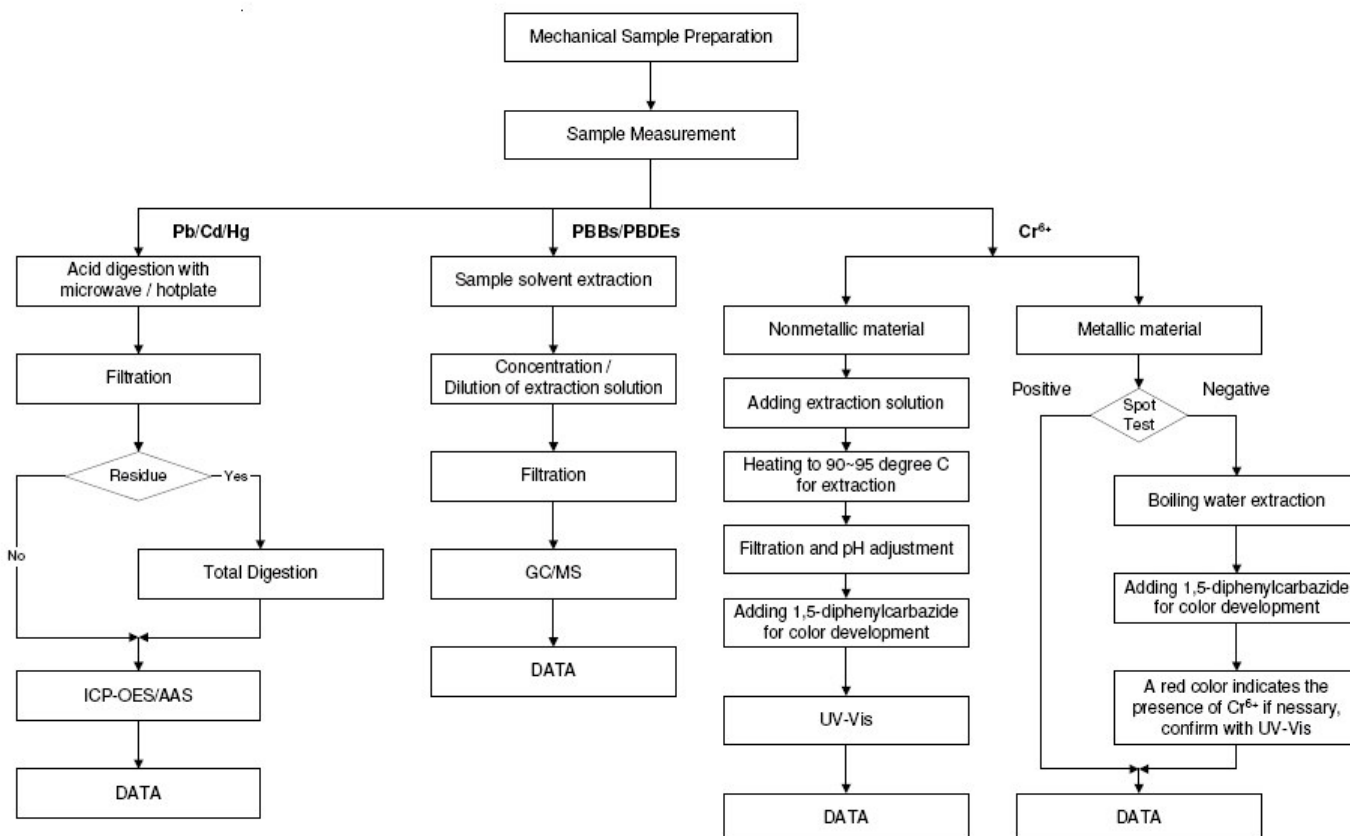
This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only.

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Flow Chart for IEC 62321 : Pb/Cd/Hg/Cr⁶⁺/PBBs/PBDEs Testing

1. Operator : Siam Polarwut
2. Section Chief : Patcharee Treeporncharoen
3. The sample was dissolved totally by pre-conditioning method according to below flowchart. (Cr⁶⁺ and PBBs/PBDEs test method excluded)



2013553

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.

Test Report No. 2311840

Date : 15-Sep-2012

Page 6 of 6

SAMPLE/ATTACHMENT PICTURE



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

2013553

This document is issued by the Company subject to its General Conditions of Service printed overleaf, available on request. Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this document is advised that information contained hereon reflects the Company's findings at the time of its intervention only and within the limits of Client's instructions, if any. The Company's sole responsibility is to its Client and this document does not exonerate parties to a transaction from exercising all their rights and obligations under the transaction documents. This document cannot be reproduced except in full, without prior written approval of the Company. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested and such sample(s) are retained for 90 days only."

WARNING: The sample(s) to which the findings recorded herein (the "Findings") relate was(were) drawn and / or provided by the Client or by a third party acting at the Client's direction. The Findings constitute no warranty of the sample's representativeness of any goods and strictly relate to the sample(s). The Company accepts no liability with regard to the origin or source from which the sample(s) is/are said to be extracted.