

| Test Report | 1494405 |
|-------------|---------|
|-------------|---------|

Date : 8-Mar-2009

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Client : NEC Tokin Electronics (Thailand) Co., Ltd. 60/76 Moo 19, Navanakorn Industrial Estate, Phaholyothin Road, Klong Nueng, Klong Luang, Pathumthani 12120 Thailand

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

| Sample Receiving Date Testing Period | : 4-Mar-2009 : 04-Mar-2009 to 08-Mar-2009 |
|---|---|
| Test Requested | : In accordance with the RoHS Directive 2002/95/EC and its amendment directives |
| Test Method | (1) With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-OES. (2) With reference to EPA Method 3050B for Cadmium Content Analysis was performed by ICP-OES. (3) With reference to wet decomposition method for Mercury Content Analysis was performed by ICP-OES. (4) With reference to EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry. (5) With reference to USEPA 3540C for PBB/PBDE content. Analysis was performed by GC/MS. |
| Test Results | : Please refer to next page. |

Signed for and on behalf of SGS (Thailand) Limited

Pornpana Lirathpong **Hardlines Testing Manager**

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TEST RESULTS

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

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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) mixed all parts

Note :

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

(2) n.d. = Not Detected

(3) MDL = Method Detection Limit

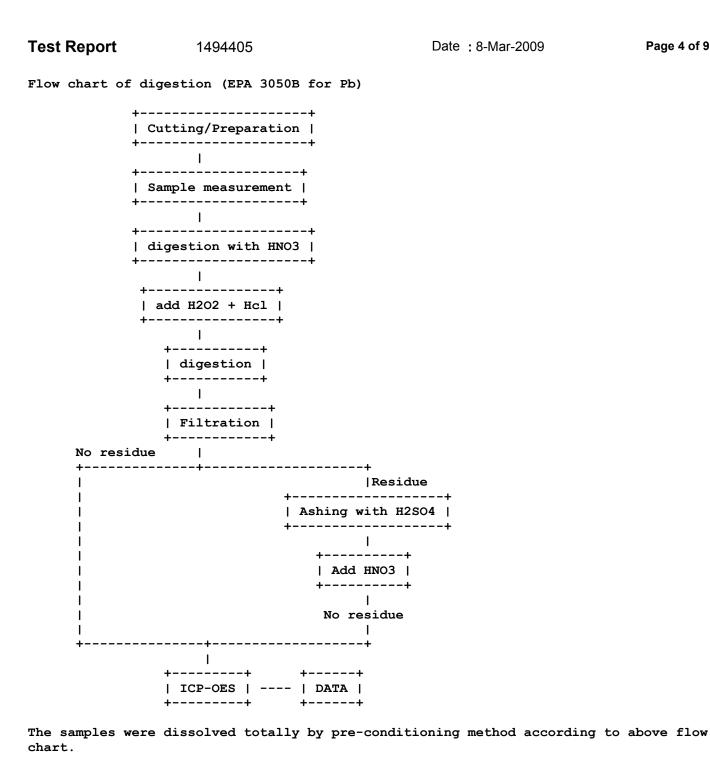
(4) ## = The exemption of DecaBDE in polymeric application according 2005/17/EC was overruled by the European Court of Justice by its decision of 01.04.2008. Subsequently DecaBDE will be included in the sum of PBDE after 01.07.2008

(5) "-" = Not regulated

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Operator : Siam Polarwut Section Chief : Laddawan Uranpitr

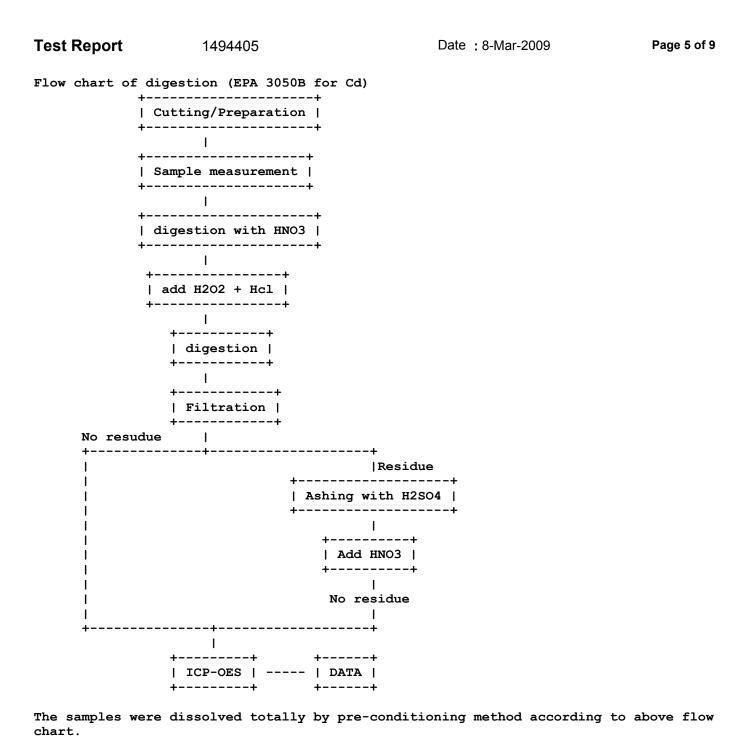
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Operator : Siam Polarwut Section Chief : Laddawan Uranpitr

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Flow chart of digestion (Wet decomposition for Hg)

```
+----+
| Cutting/Preparation |
+----+
  +----+
| Sample measurement |
+----+
  +----+
| Hot plate digestion with HNO3 |
+-----+
  +----+
| add H2O2 |
+----+
  +----+
| add HCl |
+----+
  +----+
| Total digestion |
+----+
 +----+
| ICP-AES |
+----+
 +---+
| DATA |
+---+
```

The samples were dissolved totally by pre-conditioning method according to above flow chart.

Operator : Siam Polarwut Section Chief : Laddawan Uranpitr

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Flow chart of digestion (EPA 3060A,7196A for Cr(VI))

| ++ |
|-------------------------------------|
| Cutting/Preparation |
| ++ |
| I |
| ++ |
| Sample measurement ++ |
| ++ |
| ++ |
| Add digestion solution(NaOH+Na2CO3) |
| ++ |
| ++ |
| Add MgCl2 and phosphate buffer |
| |
| |
| ++ |
| add HNO3 |
| ++ |
| I |
| ++ |
| Colorimetrically ++ |
| ++ |
| ++ |
| UV-Spectrophotometer |
| ++ |
| I |
| ++ |
| DATA |
| ++ |

Operator : Varaporn Chaihanit Section Chief : Laddawan Uranpitr

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Flow chart of PBBs/PBDEs

+----+ | Sample | +----+ +----+ | Sample pretreatment | +----+ +----+ | Sample extraction/Soxhlet method | +----+ L +------+ | Concentrate/Dilute Extracted solution | +-----+ +----+ | Filter | +----+ +----+ | Analysis by GC/MS | +----+ +----+ | DATA | +---+

Operator : Prapapan Puengpatiparn Section Chief : Sulkifli Mama

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SAMPLE/ATTACHMENT PICTURE



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