



# Test Report

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FORMOSA PLASTICS CORPORATION  
NO.100, SHUI-GUAN RD., JEN-WU SHIANG, KAOHSIUNG COUNTY, TAIWAN R. O. C.

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

|                       |   |                         |
|-----------------------|---|-------------------------|
| Sample Description    | : | POLYVINYL CHLORIDE      |
| Style/Item No.        | : | JW B-60                 |
| Sample Receiving Date | : | 2008/04/08              |
| Testing Period        | : | 2008/04/08 TO 2008/4/15 |

=====

|                       |   |   |
|-----------------------|---|---|
| <b>Test Requested</b> | : | To determine Polynuclear Aromatic Hydrocarbons (PAHs).  |
| <b>Test Result(s)</b> | : | Please refer to next page(s).   |
| <b>Conclusion</b>     | : | Base on the performed tests on submitted samples, the results <b>comply with</b> the PAHs requirement according to ZEK 01-08 (Category 2) of German ZLS and its amendments. |

  
**Katherine Ho / Supervisor**  
**Signed for and on behalf of**  
**SGS Taiwan Limited**

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## TEST PART DESCRIPTION:

NO.1 : WHITE POLYVINYL CHLORIDE

| Test Item (s):                                  | Unit  | Method   | MDL | Result No.1 |
|---|-------|--|-----|-------------|
| <b>Polycyclic aromatic Hydrocarbons (PAHs)</b>  | ---   | ---  | --- | ---         |
| Naphthalene (CAS No.: 000091-20-3)              | mg/kg | With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS. | 0.2 | 3.08        |
| Acenaphthylene (CAS No.: 000208-96-8)           |       |  | 0.2 | n.d.        |
| Acenaphthene (CAS No.: 000083-32-9)             |       |  | 0.2 | n.d.        |
| Fluorene (CAS No.: 000086-73-7)                 |       |  | 0.2 | 0.339       |
| Phenanthrene (CAS No.: 000085-01-8)             |       |  | 0.2 | 0.459       |
| Anthracene (CAS No.: 000120-12-7)               |       |  | 0.2 | n.d.        |
| Fluoranthene (CAS No.: 000206-44-0)             |       |  | 0.2 | n.d.        |
| Pyrene (CAS No.: 000129-00-0)                   |       |  | 0.2 | n.d.        |
| Benzo[a]anthracene (CAS No.: 000056-55-3)       |       |  | 0.2 | n.d.        |
| Chrysene (CAS No.: 000218-01-9)                 |       |  | 0.2 | n.d.        |
| Benzo[b]fluoranthene (CAS No.: 000205-99-2)     |       |  | 0.2 | n.d.        |
| Benzo[k]fluoranthene (CAS No.: 000207-08-9)     |       |  | 0.2 | n.d.        |
| Benzo[a]pyrene (CAS No.: 000050-32-8)           |       |  | 0.2 | n.d.        |
| Dibenzo[a,h]anthracene (CAS No.: 000053-70-3)   |       |  | 0.2 | n.d.        |
| Benzo[g,h,i]perylene (CAS No.: 000191-24-2)     |       |  | 0.2 | n.d.        |
| Indeno[1,2,3-c,d] pyrene (CAS No.: 000193-39-5) |       |  | 0.2 | n.d.        |
| <b>Sum of 16 PAHs</b>                           |       |  | 0.2 | 3.878       |

- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. " --- " = Not Conducted

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## Reference information:

### Requirement of ZEK 01-08 : Restraining maximum values for products

| Parameter                 | Category 1  | Category 2  | Category 3  |
|---------------------------|---|---|---|
|                           | Material in contact with foodstuff or materials which are meant to put in the mouth as well as toys for children <36 months | Materials with foreseeable skin contact >30 s (prolonged skin contact) and toys not covered by category 1 | Materials with foreseeable skin contact <30 s (short time skin contact) or without skin contact |
| Benzo[a]pyrene (mg/kg)    | <MDL (<0.2)**   | 1   | 20  |
| Sum 16 PAH (EPA) (mg/kg)* | <MDL (<0.2)**   | 10  | 200   |

\* = Only PAH substances >0.2 mg/kg are taken into account while calculating the sum of PAHs

\*\* = In case that the maximum values exceed the limits of category 1, but are within the limits of category 2, one may confirm the suitability of the tested material for contact with foodstuff or oral mucosa by additional specific migration tests of PAH components based on DIN EN 1186ff and §64 LFGB 80.30-1. The conclusion of the migration test results must be made based on food law criteria.

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# Test Report

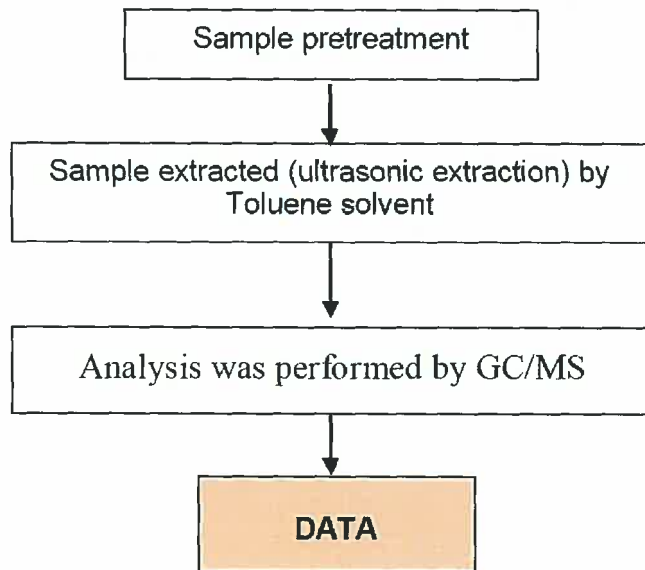
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## PAHs (PolyAromaticHydrocarbons) analytical flow chart

Reference method : ZEK 01-08



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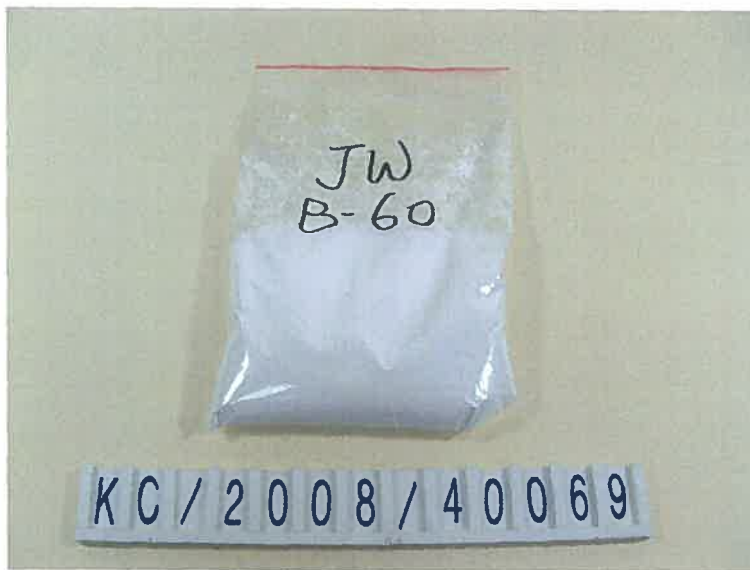
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\*\* End of Report \*\*

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