

# Test Report

No. :KC/2008/40079      Date: 2008/04/15      Page: 1 of 5



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. : ML S-60  
Sample Receiving Date : 2008/04/08  
Testing Period : 2008/04/08 TO 2008/4/15

---

**Test Requested** : To determine Polynuclear Aromatic Hydrocarbons (PAHs).

**Test Result(s)** : Please refer to next page(s).

**Conclusion** : Base on the performed tests on submitted samples, the results **comply with** 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**

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

TW 6564092

# Test Report

No. :KC/2008/40079

Date: 2008/04/15 Page: 2 of 5



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

**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	2.49
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	n.d.
Phenanthrene (CAS No.: 000085-01-8)			0.2	0.257
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	2.747

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

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

TW 6564065

# Test Report

No. :KC/2008/40079

Date: 2008/04/15 Page: 3 of 5



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

## 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.

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

TW 6564066

# Test Report

No. :KC/2008/40079

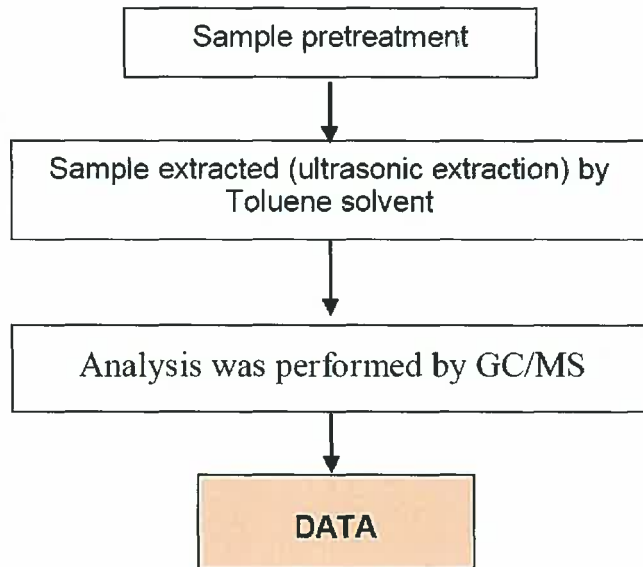
Date: 2008/04/15 Page: 4 of 5



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

## PAHs (PolyAromaticHydrocarbons) analytical flow chart

Reference method : ZEK 01-08



Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

TW 6564067

## Test Report

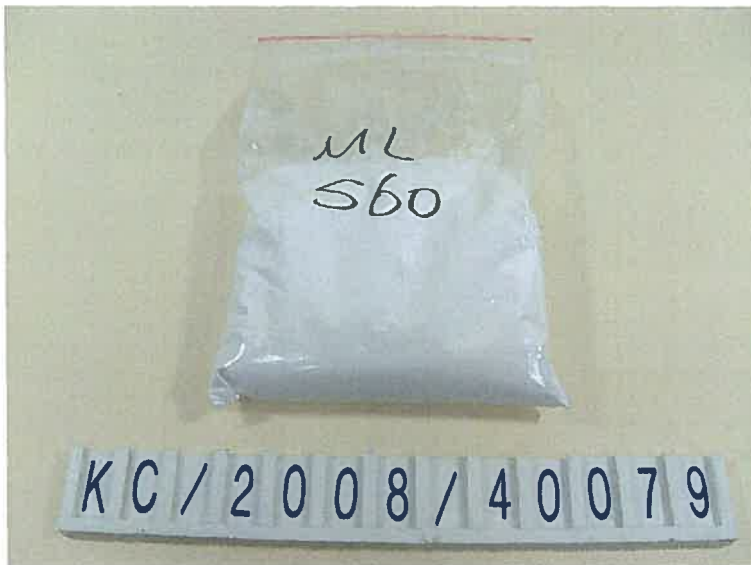
No. :KC/2008/40079

Date: 2008/04/15 Page: 4 of 5



FORMOSA PLASTICS CORPORATION

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



\*\* End of Report \*\*

Unless otherwise stated the results shown in this test report refer only to the sample(s) tested. This test report cannot be reproduced, except in full, without prior written permission of the Company. 除非另有說明，此報告結果僅對測試之樣品負責。本報告未經本公司書面許可，不可部份複製。

This Test Report is issued by the Company under its General Conditions of Service printed overleaf or available on request and accessible at [http://www.sgs.com/terms\\_and\\_conditions.htm](http://www.sgs.com/terms_and_conditions.htm). Attention is drawn to the limitation of liability, indemnification and jurisdiction issues defined therein. Any holder of this Test Report 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. 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.

TW 6564068