

Test Report

No. EC411566202

Date: Sep 13 2010

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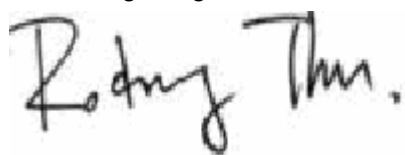
HONG KONG PETROCHEMICAL CO LTD
12, WANG LOK STREET
YUEN LONG INDUSTRIAL ESTATE
NEW TERRITORIES
HONG KONG

The following sample was submitted and identified on behalf of the client as :
HIGH IMPACT POLYSTYRENE HK PETRO SR 600

SGS Job No. : 1394581
Color : NATURE
Country of Origin : HONG KONG
Country of Destination : HONG KONG
Date of Sample(s) Received : AUG 31 2010
Testing Period : AUG 31 - SEP 08 2010

Test Requested : Select test(s) as requested by client.
Test Method : Please refer to next page(s).
Test Result(s) : Please refer to next page(s).
Conclusion : - Based on the results of the sample as tested, the raw material comply with the requirements of category 1 according to ZEK 01.2-08 of German ZLS and its amendments.

Signed for and on behalf of
SGS Hong Kong Ltd.



Thu Hung Yat, Rodney
Section Manager

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Test Results:

ID for sample 1 : 4115662S002
 Description for sample 1 : Translucent White Plastic

PAHs (Polynuclear Aromatic Hydrocarbons)

<u>Test Item(s)</u>	<u>CAS-No.</u>	<u>Unit</u>	<u>Test Method</u>	<u>Results</u>	<u>MDL</u>
Naphthalene (NAP)	91-20-3	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Acenaphthylene (ANY)	208-96-8	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Acenaphthene (ANA)	83-32-9	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Fluorene (FLU)	86-73-7	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Phenanthrene (PHE)	85-01-8	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Anthracene (ANT)	120-12-7	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Fluoranthene (FLT)	206-44-0	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Pyrene (PYR)	129-00-0	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Benz (a) anthracene (BaA)	56-55-3	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Chrysene (CHR)	218-01-9	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Benzo (b) fluoranthene (BbF)	205-99-2	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Benzo (k) fluoranthene (BkF)	207-08-9	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Benzo (a) pyrene (BaP)	50-32-8	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Indeno (1,2,3-cd) pyrene (IPY)	193-39-5	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Dibenz (a,h) anthracene (DBA)	53-70-3	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Benzo (g,h,i) perylene (BPE)	191-24-2	mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	0.2
Sum of 16 PAHs acc. US EPA		mg/kg	With reference to ZEK 01.2-08, and performed by GC-MS	n.d.	-
Material Category acc. ZEK 01.2-08			With reference to ZEK 01.2-08, and performed by GC-MS	1	

Note :

- (1) mg/kg = ppm
- (2) n.d. = not detected

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(3) MDL = Method Detection Limit

ZEK 01.2-08 : Restraining maximum values for products

Parameter	Category 1	Category 2	Category 3
	Material 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 (US EPA) (mg/kg)**	<MDL (<0,2)***	10	200

Remark :

** = 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 which is in contact with 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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Sample photo:



SGS authenticate the photo on original report only

*** End Of Report ***

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