

13719/13721

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## Test Report

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

Sample Description : MESSAGE BALL  
Color : YELLOW  
Sample Receiving Date : 2008/07/11  
Testing Period : 2008/07/11 TO 2008/07/17

**Test Result(s)** : - Please see the next page(s) -

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

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## Test Result(s)

PART NAME NO.1 : YELLOW MESSAGE BALL

Test Item (s)	Unit	Method	MDL	Result No. 1
Cadmium (Cd)	mg/kg	With reference to BS EN 1122:2001, Method B for Cadmium Content. Analysis was performed by ICP-AES.	2	n.d.
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.
Lead (Pb)	mg/kg	With reference to EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	n.d.
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321/2nd CDV (111/95/CDV). Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.
NONYLPHENOL(NP)	ppm	SOLVENT EXTRACTION LC-MS ANALYSIS	10	n.d.
<b>Sum of PBBs</b>	mg/kg	With reference to US EPA 3540C for PBBs/PBDEs Content. Analysis was performed by GC/MS.	-	-
Monobromobiphenyl			5	n.d.
Dibromobiphenyl			5	n.d.
Tribromobiphenyl			5	n.d.
Tetrabromobiphenyl			5	n.d.
Pentabromobiphenyl			5	n.d.
Hexabromobiphenyl			5	n.d.
Heptabromobiphenyl			5	n.d.
Octabromobiphenyl			5	n.d.
Nonabromobiphenyl			5	n.d.
Decabromobiphenyl			5	n.d.
<b>Sum of PBDEs</b>			-	n.d.
Monobromodiphenyl ether			5	n.d.
Dibromodiphenyl ether			5	n.d.
Tribromodiphenyl ether		5	n.d.	
Tetrabromodiphenyl ether		5	n.d.	
Pentabromodiphenyl ether		5	n.d.	
Hexabromodiphenyl ether		5	n.d.	
Heptabromodiphenyl ether		5	n.d.	
Octabromodiphenyl ether		5	n.d.	
Nonabromodiphenyl ether		5	n.d.	
Decabromodiphenyl ether		5	n.d.	

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Test Item (s)	Unit	Method	MDL	Result
				No. 1
<b>PHthalates</b>	---	---	---	---
BUTYL BENZYL	ppm	ASTM-D3421	30	n.d.
BIS(2-ETHYLHEXYL) PHthalate(DEHP)	ppm	ASTM-D3421	30	n.d.
DIBUTYL PHthalate(DBP)	ppm	ASTM-D3421	30	n.d.
DI-ISO-DECYL PHthalate(DIDP)	ppm	ASTM-D3421	30	n.d.
DI-N-OCTYL PHthalate(DNOP)	ppm	ASTM-D3421	30	n.d.
DI ISONONYL PHthalate(DINP)	ppm	ASTM-D3421	30	n.d.
<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	n.d.
Acenaphthylene (CAS NO. 000208-96-8)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Acenaphthene (CAS NO. 000083-32-9)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Fluorene (CAS NO.000086-73-7)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Phenanthrene (CAS NO.000085-01-8)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Anthracene (CAS NO. 000120-12-7)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Fluoranthene (CAS NO.000206-44-0)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Pyrene (CAS NO.000129-00-0)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[a]anthracene (CAS NO.000056-55-3)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.

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Test Item (s)	Unit	Method	MDL	Result No. 1
Chrysene (CAS NO.000218-01-9)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[b]fluoranthene (CAS NO.000205-99-2)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[k]fluoranthene (CAS NO.000207-08-9)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[a]pyrene (CAS NO.000050-32-8)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Dibenzo[a,h]anthracene (CAS NO. 000053-70-3)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Benzo[g,h,i]perylene (CAS NO. 000191-24-2)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Indeno[1,2,3-c,d]pyrene (CAS NO. 000193-39-5)	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.
Sum of 16 PAHs	mg/kg	With reference to ZLS standard ZEK 01-08. Analysis was performed by GC/MS.	0.2	n.d.

- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. The exemption of DecaBDE in polymeric application according 2005/717/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
  6. " --- " = 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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\*\* End of Report \*\*

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