

## Test Report

No. SH8021660/ CHEM

Date: Mar. 1, 2008

Page 1 of 5

SHANGHAI RECTRON ELEC CO., LTD  
188#, NEWSTREET, XIASHA, NANHUI, SHANGHAI

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

Sample Name : MOLDING COMPOUND  
SGS Ref No. : 10863351  
Buyer : SONY

Make use of the following package products:

SMA(L)/SMB(L)/SMC(L)/SMX/SOD123/SOD123F(L)/MELF/MINI  
MELF/R1/A405/DO41/DO15/R3/R6/1.5KE/DO201/DO204/HVM/HVP/DBS/DB/DBLS/S  
LDBS/MDS/BDB/RS1/RS2/RS4/RS6/RS8/RB15/WOM/RC2/BR3/BR6//BR8/BR10/BR  
15(W-)25(W)-35(W)/MP15(W)-35(W)/RS1M-2M-4M-6M-10M-15M-20M-25M-35M-  
RUB4M-6M-8M-10M/(I)TO220A/ITO220/DPK/D2PAK/TO247/SOT23/MDS

Model : KL-1000-FH

Sample Receiving Date : Feb.26, 2008  
Testing Period : Feb.26-29, 2008

Test Requested : (1) With reference to SONY SS-00259  
(1-1) To determine Cadmium, Lead and Mercury content in the submitted sample.  
(1-2) To determine Hexavalent Chromium content in the submitted sample.  
(1-3) To determine PBBs/PBDEs content in the submitted sample.  
(2) As per client's request, to determination DBP, BBP, DEHP, DINP, DNOP, DIDP  
and DHP content of the submitted samples.  
(3) To determine the Halogen- Fluorine, Chlorine, Bromine, Iodine Content in the  
submitted sample.  
(4) To determine the PFOS (Perfluorooctane Sulfonates) content of the submitted  
samples.

Test Results/ Test Method : Please refer to next pages

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory



Ella Zhang  
Section Manager

Signed for and on behalf of  
SGS-CSTC Chemical Laboratory



Sandy Hao  
Lab Manager

## Test Report

No. SH8021660/ CHEM

Date: Mar. 1, 2008

Page 2 of 5

Test Method : (1-1) With reference to US EPA Method 3052 for Cadmium, Lead and Mercury content for sample.  
 Analysis was performed by ICP.  
 (1-2) With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium content for sample.  
 Analysis was performed by UV/Vis Spectrometry.  
 (1-3) With reference to US EPA Method 3540C/3550C for PBBs / PBDEs content.  
 Analysis was performed by GC-MS.  
 (2) With reference to ASTM D3421-75. Analysis was performed by Gas Chromatography/ Mass Spectrometry.  
 (3) With reference to BS EN 14582:2007.  
 (3-1) Determination of Fluorine by IC method.  
 (3-2) Determination of Chlorine by IC method.  
 (3-3) Determination of Bromine by IC method.  
 (3-4) Determination of Iodine by IC method.  
 (4) With reference to EPA 3540C: 1996.  
 Analysis was performed by High Performance Liquid Chromatograph-Mass Spectrometer (HPLC-MS).

Test results by chemical method:

(1) Cadmium, Lead, Mercury, Hexavalent Chromium, PBBs / PBDEs Content

<u>Test Item(s)</u>	<u>1</u>	<u>Unit</u>	<u>MDL</u>
Cadmium (Cd)	ND	mg/kg	2
Lead (Pb)	ND	mg/kg	2
Mercury (Hg)	ND	mg/kg	2
Hexavalent Chromium (Cr VI)	ND	mg/kg	2
Sum of PBBs	ND	mg/kg	--
Monobromobiphenyl	ND	mg/kg	5
Dibromobiphenyl	ND	mg/kg	5
Tribromobiphenyl	ND	mg/kg	5
Tetrabromobiphenyl	ND	mg/kg	5
Pentabromobiphenyl	ND	mg/kg	5
Hexabromobiphenyl	ND	mg/kg	5
Heptabromobiphenyl	ND	mg/kg	5
Octabromobiphenyl	ND	mg/kg	5
Nonabromobiphenyl	ND	mg/kg	5
Decabromobiphenyl	ND	mg/kg	5
Sum of PBDEs	ND	mg/kg	--
Monobromobiphenyl ether	ND	mg/kg	5
Dibromobiphenyl ether	ND	mg/kg	5

## Test Report

No. SH8021660/ CHEM

Date: Mar. 1, 2008

Page 3 of 5

Tribromobiphenyl ether	ND	mg/kg	5
Tetrabromobiphenyl ether	ND	mg/kg	5
Pentabromobiphenyl ether	ND	mg/kg	5
Hexabromobiphenyl ether	ND	mg/kg	5
Heptabromobiphenyl ether	ND	mg/kg	5
Octabromobiphenyl ether	ND	mg/kg	5
Nonabromobiphenyl ether	ND	mg/kg	5
Decabromobiphenyl ether	ND	mg/kg	5

### (2) Phthalates Content (Unit: %)

Item	Method (refer to)	1	MDL
Dibutyl Phthalate (DBP) Content	(2)	ND	0.003
Benzylbutyl Phthalate (BBP) Content		ND	0.003
Bis-(2-ethylhexyl) Phthalate (DEHP) Content		ND	0.003
Diisononyl Phthalate (DINP) Content		ND	0.01
Di-n-octyl Phthalate (DNOP) Content		ND	0.003
Diisodecyl Phthalate (DIDP) Content		ND	0.01
Dihexyl Phthalate (DHP) Content		ND	0.003

### (3) Halogen- Fluorine, Chlorine, Bromine, Iodine Content (Unit: mg/kg)

Test Item(s):	Method (refer to)	1	MDL
Fluorine(F)	(3-1)	ND	50
Chlorine(Cl)	(3-2)	124	50
Bromine(Br)	(3-3)	4860	50
Iodine(I)	(3-4)	ND	50

### (4) PFOS (Perfluorooctane Sulfonates) content (Unit: mg/kg)

Test Items	Test method(refer to)	1	MDL
<b>PFOS (Perfluorooctane Sulfonates )</b>	(4)	ND	10
$\Sigma \left\{ \begin{array}{l} \text{PFOS-acid} \\ \text{PFOS-salt} \end{array} \right\}$			

## Test Report

No. SH8021660/ CHEM

Date: Mar. 1, 2008

Page 4 of 5

### Test Part Description:

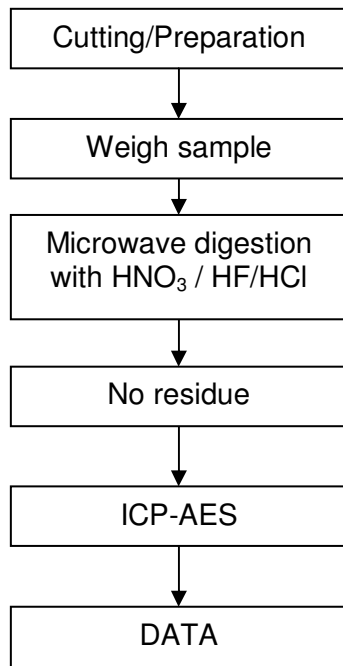
1. Grey black solid round block

### Note:

- (1) mg/kg = ppm
- (2) MDL = Method Detection Limit
- (3) ND = Not detected (Less than MDL)
- (4) % = percentage by weight

### ATTACHMENTS

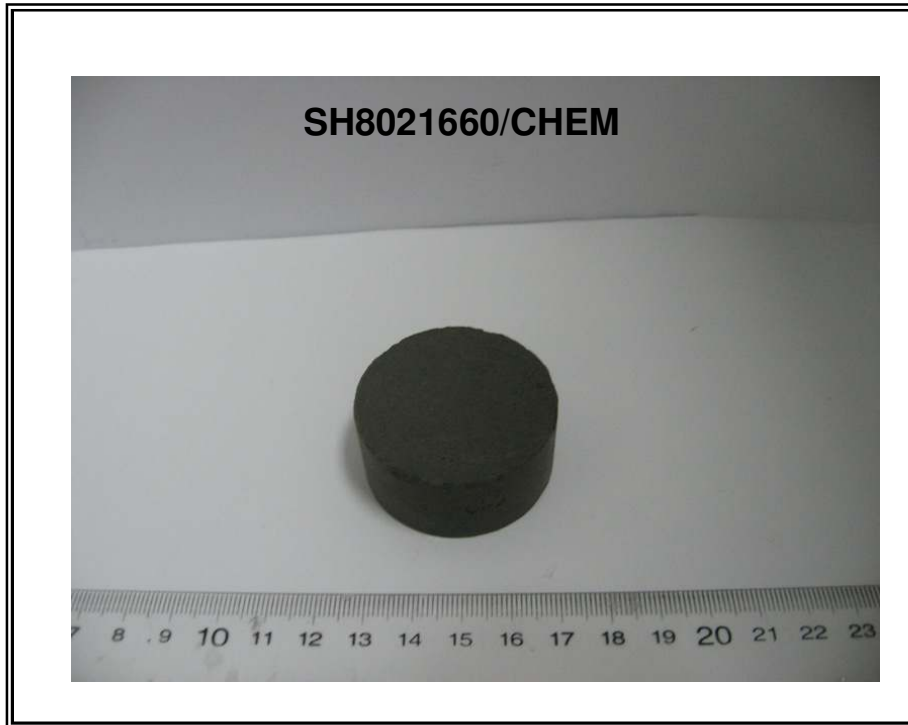
Cd and Pb Measurement Flowchart for sample



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

Tested by : Ken Wang  
Checked by : Terry Wang

Sample photo:



SGS authenticate the photo on original report only

\*\*\* End of Report \*\*\*