



## Test Report

No. 2005840/EC

Date : Nov 04 2004

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BRIGHT LED ELECTRONICS CORP.  
GAOLONG DONG ROAD,  
GAOBU TOWN,  
DONGGUAN CITY,  
GUANGDONG PROVINCE,  
CHINA

Report on the submitted samples said to be LED DISPLAY 1) OUTER PLASTIC (塑膠殼) 2) METAL PIN (端子).

SGS Job No. : 1636054  
SGS Ref. No. : SZECO041012230EC  
Buyer : SAMSUNG COOPERATION  
Supplier/Manufacture : BRIGHT LED  
Sample Receiving Date : OCT 20 2004  
Testing Period : OCT 21-NOV 02 2004

Test Requested : 1) To determine the Cadmium content in the submitted sample.  
2) To determine the Lead content in the submitted sample.  
3) To determine the Mercury content in the submitted sample.  
4) To determine the Hexavalent Chromium content on the submitted sample.  
5) Determination of PBBs (polybrominated biphenyls), PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1-3) In-House Method.  
The sample was digested by acid. Analysis was performed by Inductively Coupled Argon Plasma - Atomic Emission Spectrometry (ICP-AES) or Atomic Absorption Spectrometry.  
4) As specified in EPA Method 3060A & 7196A.  
The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A.  
5) With reference to SGS in-house method. Analysis was performed by GC/MS.

Test Results : 1-5) Please refer to next page.

Signed for and on behalf of  
SGS Hong Kong Ltd

  
Lee Fung Mei, Miranda  
Senior Manager

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### Test Results :

Element	Silvery Metal (Terminal)
1) Cadmium (Cd)	< 2 ppm
2) Lead (Pb)	< 2 ppm
3) Mercury (Hg)	< 2 ppm
4) Hexavalent Chromium (Cr <sup>6+</sup> )	< 2 ppm

(Results shown are of the total weight of samples)

Note : < = Less than  
ppm = mg/kg

5)

Flame Retardants	White Plastic w/ Black Coating (Outer Plastic)	Detection Limit
<b>Polybrominated Biphenyls (PBBs)</b>	---	---
Monobromobiphenyl	ND	5 ppm
Dibromobiphenyl	ND	5 ppm
Tribromobiphenyl	ND	5 ppm
Tetrabromobiphenyl	ND	5 ppm
Pentabromobiphenyl	ND	5 ppm
Hexabromobiphenyl	ND	5 ppm
Heptabromobiphenyl	ND	5 ppm
Octabromobiphenyl	ND	5 ppm
Nonabromobiphenyl	ND	5 ppm
Decabromobiphenyl	ND	5 ppm
<b>Polybrominated Diphenylether (PBDEs)</b>	---	---
Monobromodiphenyl ether	ND	5 ppm
Dibromodiphenyl ether	ND	5 ppm
Tribromodiphenyl ether	ND	5 ppm
Tetrabromodiphenyl ether	ND	5 ppm
Pentabromodiphenyl ether	ND	5 ppm
Hexabromodiphenyl ether	ND	5 ppm
Heptabromodiphenyl ether	ND	5 ppm
Octabromodiphenyl ether	ND	5 ppm
Nonabromodiphenyl ether	ND	5 ppm
Decabromodiphenyl ether	ND	5 ppm

Note: ND = Not Detected  
Non-detected is lower than detection limit value.

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

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