

# Survey Report

LIGHT COUNTRY CO., LTD.

10F-1, NO. 102, SEC. 3, CHUNG SHAN RD., CHUNG HO CITY,  
TAIPEI HSIEN, TAIWAN, R. O. C.

No. : CS/2007/40112B

Date : 2007/05/07

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The following test reports/information were submitted and identified by the client as :

Sample Description : DIP SWITCH, SLIDE, PIANO, RIGHT ANGLE TYPE  
Style/Item No. : RS/RSR, RP/RPL, RA/RAR SERIES  
Country of origin : TAIWAN  
Testing Period : 2007/04/18 TO 2007/04/19

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

\*This report is combine with reports of CE/2007/42469, CE/2007/42470, CE/2007/42471, CE/2007/42472, CE/2007/42457  
and CE/2007/43114\*

  
Daniel Yeh, M.R. / Operation Manager  
Signed for and on behalf of  
SGS TAIWAN LTD.

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## Test Result(s)

PART NAME NO.1 : WHITE PLASTIC (CE/2007/42469)  
PART NAME NO.2 : BLACK PLASTIC (CE/2007/42470)  
PART NAME NO.3 : BLUE PLASTIC WITH WHITE PRINTED (CE/2007/42471)  
PART NAME NO.4 : RED PLASTIC WITH WHITE PRINTED (CE/2007/42472)  
PART NAME NO.5 : GOLDEN COLORED METAL TERMINAL (CE/2007/42457 NO.1)  
PART NAME NO.6 : PLATING LAYER OF GOLDEN COLORED METAL TERMINAL (CE/2007/42457  
PART NAME NO.7 : MIXED ALL LIQUID & PASTE (16 STYLE) (EPOXY RESIN: CKE-660, 661, 700A,  
702A, 706A, 3002A, 3630A, 3650A, 3710A HARDENER: CKE-700B, 706B, 906B,  
3002B, 3630B, 3650B, 3710B) (CE/2007/43114)

Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	n.d.	n.d.	n.d.	---
Cadmium (Cd)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	11	12	6	12	21

Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Monobromobiphenyl	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	n.d.	n.d.	n.d.	n.d.	---
Dibromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Tribromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Tetrabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Pentabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Hexabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Heptabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Octabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Nonabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Decabromobiphenyl	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Sum of PBBs	mg/kg		-	n.d.	n.d.	n.d.	n.d.	---

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Test Item(s):	Unit	Method	MDL	Result				
				NO.1	NO.2	NO.3	NO.4	NO.5
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	n.d.	n.d.	n.d.	n.d.	---
Dibromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Tribromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Tetrabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Pentabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Hexabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Heptabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Octabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Nonabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
Decabromobiphenyl ether	mg/kg		5	n.d.	n.d.	n.d.	n.d.	---
<b>Sum of PBDEs (Mono to Deca)</b>	mg/kg		-	n.d.	n.d.	n.d.	n.d.	---
<b>Sum of PBDEs (Mono to Nonal) (Note 4)</b>	mg/kg		-	n.d.	n.d.	n.d.	n.d.	---

Test Item(s):	Unit	Method	MDL	Result	
				NO.6	NO.7
Hexavalent Chromium Cr(VI) by Spot test / boiling water extraction	**	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for metallic samples by Spot test / Colorimetric Method.	0.02 mg/kg with 50 cm <sup>2</sup> surface area	Negative	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	---	n.d.
Cadmium (Cd)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	---	n.d.
Mercury (Hg)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	---	n.d.
Lead (Pb)	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	---	n.d.

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Test Item(s):	Unit	Method	MDL	Result	
				NO.6	NO.7
Monobromobiphenyl	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	---	n.d.
Dibromobiphenyl	mg/kg		5	---	n.d.
Tribromobiphenyl	mg/kg		5	---	n.d.
Tetrabromobiphenyl	mg/kg		5	---	n.d.
Pentabromobiphenyl	mg/kg		5	---	n.d.
Hexabromobiphenyl	mg/kg		5	---	n.d.
Heptabromobiphenyl	mg/kg		5	---	n.d.
Octabromobiphenyl	mg/kg		5	---	n.d.
Nonabromobiphenyl	mg/kg		5	---	n.d.
Decabromobiphenyl	mg/kg		5	---	n.d.
<b>Sum of PBBs</b>	mg/kg		-	---	n.d.
Monobromobiphenyl ether	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of PBB and PBDE by GC/MS.	5	---	n.d.
Dibromobiphenyl ether	mg/kg		5	---	n.d.
Tribromobiphenyl ether	mg/kg		5	---	n.d.
Tetrabromobiphenyl ether	mg/kg		5	---	n.d.
Pentabromobiphenyl ether	mg/kg		5	---	n.d.
Hexabromobiphenyl ether	mg/kg		5	---	n.d.
Heptabromobiphenyl ether	mg/kg		5	---	n.d.
Octabromobiphenyl ether	mg/kg		5	---	n.d.
Nonabromobiphenyl ether	mg/kg		5	---	n.d.
Decabromobiphenyl ether	mg/kg		5	---	n.d.
<b>Sum of PBDEs (Mono to Deca)</b>	mg/kg		-	---	n.d.
<b>Sum of PBDEs (Mono to Nona) (Note 4)</b>	mg/kg	-	---	n.d.	

- Note :
1. mg/kg = ppm
  2. n.d. = Not Detected
  3. MDL = Method Detection Limit
  4. According to 2005/717/EC DecaBDE is exempt.
  5. Spot-test:
    - Negative = Absence of Cr(VI) coating / surface layer,
    - Positive = Presence of Cr(VI) coating / surface layer;
    - (The tested sample should be further verified by boiling-water-extraction method if the spot test result cannot be confirmed.)
  - Boiling-water-extraction:
    - Negative = Absence of Cr(VI) coating / surface layer.
    - Positive = Presence of Cr(VI) coating / surface layer;
    - the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm<sup>2</sup> sample surface area.
  6. "---" = Not Conducted
  7. "- " = Not Regulated
  8. \*\* = Qualitative analysis (No Unit)

\*\* End of Report \*\*