

Survey Report

LIGHT COUNTRY CO., LTD.
10F-1, NO. 102, SEC. 3, CHUNG SHAN RD., CHUNG HO CITY,
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The following test reports/information were submitted and identified by the client as :

Sample Description : 3M ROCKER SWITCHES
Testing Period : 2006/03/15 TO 2007/02/07

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

This report is combined with 15 copies of test reports which hereby certified by SGS through the verification of each above certification provided by client.


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 : PINK PIECES (CE/2007/16523)
 PART NAME NO.2 : BLACK GRANULE (CE/2006/36272)
 PART NAME NO.3 : BLACK PLASTIC PELLETS (CE/2006/95444)
 PART NAME NO.4 : MIXED RED / BLACK PLASTIC (CE/2006/87689)
 PART NAME NO.5 : PLATING LAYER OF SILVER COLORED METAL (CE/2007/30945)
 PART NAME NO.6 : COPPER COLORED METAL (CE/2006/34692)
 PART NAME NO.7 : GOLDEN COLORED METAL (CE/2006/96799)
 PART NAME NO.8 : SILVER COLORED METAL WIRE (CE/2006/96160)
 PART NAME NO.9 : SILVER COLORED METAL WIRE (CE/2006/75071)
 PART NAME NO.10 : SILVER COLORED METAL (CE/2006/A0778)
 PART NAME NO.11 : SILVER STEEL (KC/2007/10140)
 PART NAME NO.12 : SILVER-WHITE COLORED METAL (CE/2006/B3100A NO.1)
 PART NAME NO.13 : PLATING LAYER OF SILVER-WHITE COLORED METAL (CE/2006/B3100A NO.2)
 PART NAME NO.14 : GOLDEN COLORED METAL (CE/2007/18361A NO.1)
 PART NAME NO.15 : PLATING LAYER OF GOLDEN COLORED METAL (CE/2007/18361A NO.2)
 PART NAME NO.16 : SILVER COLORED METAL (CE/2006/B3102 NO.1)
 PART NAME NO.17 : PLATING LAYER OF SILVER COLORED METAL (CE/2006/B3102 NO.2)
 PART NAME NO.18 : SILVER-WHITE COLORED METAL (CE/2006/A0085A NO.1)
 PART NAME NO.19 : PLATING LAYER OF SILVER-WHITE COLORED METAL (CE/2006/A0085A NO.2)

Test Item(s):	Unit	Method	MDL	Result					
				NO.1	NO.2	NO.3	NO.4	NO.5	
Monobromobiphenyl	mg/kg	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	n.d.	n.d.	n.d.	---	
Dibromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Tribromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Tetrabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Pentabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Hexabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Heptabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Octabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Nonabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Decabromobiphenyl	mg/kg		5	---	n.d.	n.d.	n.d.	---	
Total PBBs	mg/kg		-	---	n.d.	n.d.	n.d.	---	
Monobromobiphenyl ether	mg/kg		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/MS	5	---	n.d.	n.d.	n.d.	---
Dibromobiphenyl ether	mg/kg			5	---	n.d.	n.d.	n.d.	---
Tribromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Tetrabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Pentabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Hexabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Heptabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Octabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Nonabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Decabromobiphenyl ether	mg/kg	5		---	n.d.	n.d.	n.d.	---	
Total PBBEs(PBDEs)	mg/kg	-		---	n.d.	n.d.	n.d.	---	
Total of Mono to Nona (Note 4)	mg/kg	-		---	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
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	---	n.d.	n.d.	n.d.	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	n.d.	---	---	---	---
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.	0.02mg/kg with 50 cm ² surface area	---	---	---	---	Negative
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.	n.d.	n.d.	---
	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	n.d.	---	---	---	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.	n.d.	n.d.	---
	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Mercury by ICP-AES.	2	n.d.	---	---	---	n.d.
Lead (Pb)	mg/kg	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	---	n.d.	18.3	n.d.	---
	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	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	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.	---	---	---	---	
Sum of PBBs	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.	---	---	---	---	
Sum of PBDEs (Mono to Deca)	mg/kg	-		n.d.	---	---	---	---	
Sum of PBDEs (Mono to Nona)	mg/kg	-		n.d.	---	---	---	---	
(Note 4)									

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Monobromobiphenyl	mg/kg	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/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.	---	---	---
Total PBBs	mg/kg		-	---	n.d.	---	---	---

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Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Monobromobiphenyl ether	mg/kg	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/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.	---	---	---
Total PBBEs(PBDEs)	mg/kg		-	---	n.d.	---	---	---
Total of Mono to Nona (Note 4)	mg/kg		-	---	n.d.	---	---	---

Test Item(s):	Unit	Method	MDL	Result				
				NO.6	NO.7	NO.8	NO.9	NO.10
Hexavalent Chromium Cr(VI)	mg/kg	With reference to US EPA Method 3060A & 7196A for Hexavalent Chromium. Analysis was performed by UV/Vis Spectrometry.	2	n.d.	---	---	n.d.	---
Hexavalent Chromium Cr(VI) by alkaline extraction	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Hexavalent Chromium for non-metallic samples by UV/Vis Spectrometry.	2	---	n.d.	---	---	---
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.	0.02mg/kg with 50 cm ² surface area	---	---	Negative	---	Negative
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.	n.d.	n.d.	n.d.	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.	n.d.	n.d.	n.d.	n.d.
Lead (Pb)	mg/kg	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	n.d.	29.4	16.3	6.6	n.d.

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Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Monobromobiphenyl	mg/kg	With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/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.	---	---	---	---
Total PBBs	mg/kg		-	n.d.	---	---	---	---
Monobromobiphenyl ether	mg/kg		With reference to USEPA3540C, Analysis was performed by GC/MS and screening via USEPA 3550C with HPLC/DAD/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.	---	---	---	---
Total PBBEs(PBDEs)	mg/kg	-		n.d.	---	---	---	---
Total of Mono to Nona (Note 4)	mg/kg	-		n.d.	---	---	---	---

Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
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.	0.02mg/kg with 50 cm ² surface area	---	---	Negative	---	Negative
Hexavalent Chromium Cr(VI)	µg/ cm ²	As per ISO 3613 Section 5.6 method.	0.02	n.d.	---	---	---	---
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.	n.d.	---	---	---
	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Cadmium by ICP-AES.	2	---	---	---	n.d.	---

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Test Item(s):	Unit	Method	MDL	Result				
				NO.11	NO.12	NO.13	NO.14	NO.15
Mercury (Hg)	mg/kg	With reference to US EPA Method 3052 for Mercury Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	---	---	---
	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 US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	n.d.	n.d.	---	---	---
	mg/kg	With reference to IEC 62321, Ed.1 111/54/CDV. Determination of Lead by ICP-AES.	2	---	---	---	n.d.	---

Test Item(s):	Unit	Method	MDL	Result			
				NO.16	NO.17	NO.18	NO.19
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.	0.02mg/kg with 50 cm ² surface area	---	Negative	---	---
Hexavalent Chromium Cr(VI)	µg/cm ²	As per ISO 3613 Section 5.6 method.	0.02	---	---	---	n.d.
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.	---	---	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.	---	---	n.d.

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Test Item(s):	Unit	Method	MDL	Result			
				NO.16	NO.17	NO.18	NO.19
Lead (Pb)	mg/kg	With reference to US EPA Method 3050B for Lead Content. Analysis was performed by ICP-AES.	2	7	---	70.4	---

- 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 cm² sample surface area.
 6. "---" = Not Conducted
 7. " - " = Not Regulated
 8. "**" = Qualitative analysis (No Unit)

** End of Report **