



Test Report

No. 2057273/EC

Date : May 01 2006

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HONG KONG SEMI-CONDUCTOR LIMITED
UNIT B, 13/F., KA NIN WAH COMMERCIAL BLDG.,
423-425 HENNESSY RD., WANCHAI, HONG KONG

Report on the submitted sample said to be LED LAMPS 發光二極管.

SGS Job No.	:	1011810
Buyer	:	C.S.
Manufacturer	:	HONG KONG SEMI-CONDUCTOR LIMITED
Country of Origin	:	CHINA
Sample Receiving Date	:	APR 19 2006
Testing Period	:	APR 19 - 26 2006

Test Requested : With reference to RoHS Directive 2002/95/EC

- 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) To determine the Cadmium, Lead and Mercury content in the submitted metal sample.
- 6) To determine PBBs (Polybrominated biphenyls) and PBDEs (Polybrominated diphenylethers) of the submitted sample.

- | | | |
|-------------|---|--|
| Test Method | : | 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES). |
| | | 2) With reference to EPA Method 3050B/ 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES). |
| | | 3) With reference to EPA Method 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES). |
| | | 4) With reference to EPA Method 3060A & 7196A. The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer). |
| | | 5) With reference to SGS in-house method. The sample was digested by acid. Analysis was performed by Atomic Absorption or Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES). |
| | | 6) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS. |

Test Results : 1-6) Please refer to next page.

Signed for and on behalf of
SGS Hong Kong Ltd

Ho Ka Ting, Family
Laboratory Executive

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Test Report

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Test Results

1-5)

Test Item	1	2	3	Detection Limit	Limit
Cadmium (Cd)	ND	ND	ND	2 ppm	100 ppm
Lead (Pb)	ND	ND	ND	2 ppm	1000 ppm
Mercury (Hg)	ND	ND	ND	2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	ND	ND	ND	2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg
 ND = Not Detected
 Not detected is reported when the reading is less than detection limit value

Remark : The calculation for the reported results of composite samples is based on Minimum weight of the composite sample.

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Test Result (Con't)

6)

Flame Retardants	1	2	3	Detection Limit	Limit
Polybrominated Biphenyls (Mono – Deca)	ND	ND	ND	50 ppm	1000 ppm
Monobromobiphenyl	ND	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	ND	5 ppm	--
Decabromobiphenyl	ND	ND	ND	5 ppm	--
Polybrominated Diphenylethers (Mono – Nona)	ND	ND	ND	45 ppm	1000 ppm
Monobromodiphenyl ether	ND	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	ND	5 ppm	--
Nonabromodiphenyl ether	ND	ND	ND	5 ppm	--
Decabromodiphenyl ether*	ND	ND	ND	5 ppm	See remark

Note : ppm = mg/kg
 ND = Not Detected
 Not detected is reported when the reading is less than detection limit value.

Remark : 1) The calculation on the reported results of composite samples is based on the total weight of the composite samples.
 2) Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

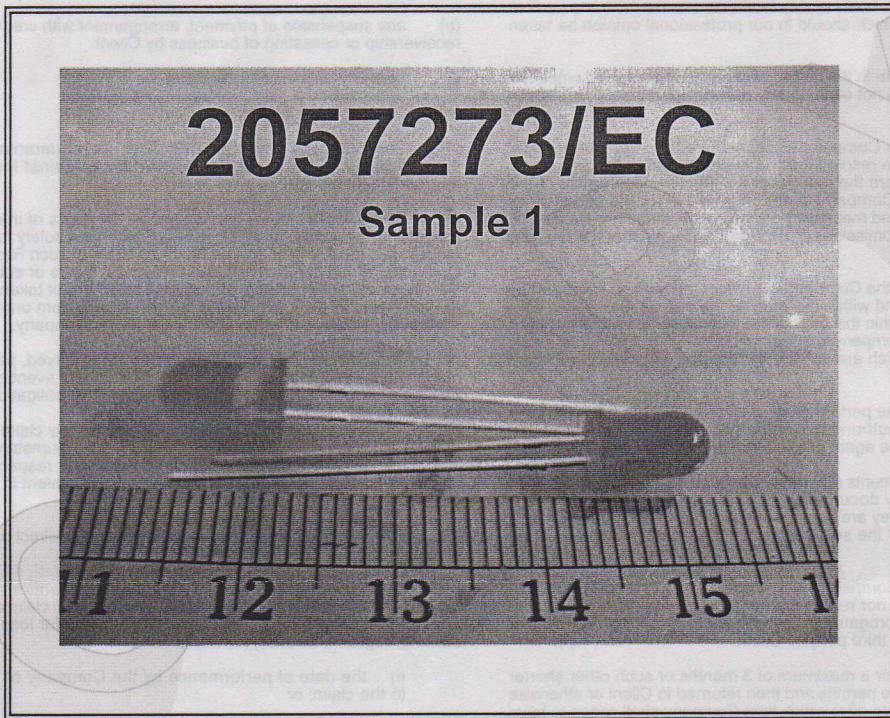
Sample Description :

1. Semi-Transparent Green Plastic + Semi-Transparent Orange Plastic
2. Transparent Plastic + Semi-Transparent Red Plastic + Semi-Transparent Yellow Plastic
3. Silvery Metal

Remark : The composite sampling method is based on the client's special request and is a modification from the testing method.

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PHOTO APPENDIX

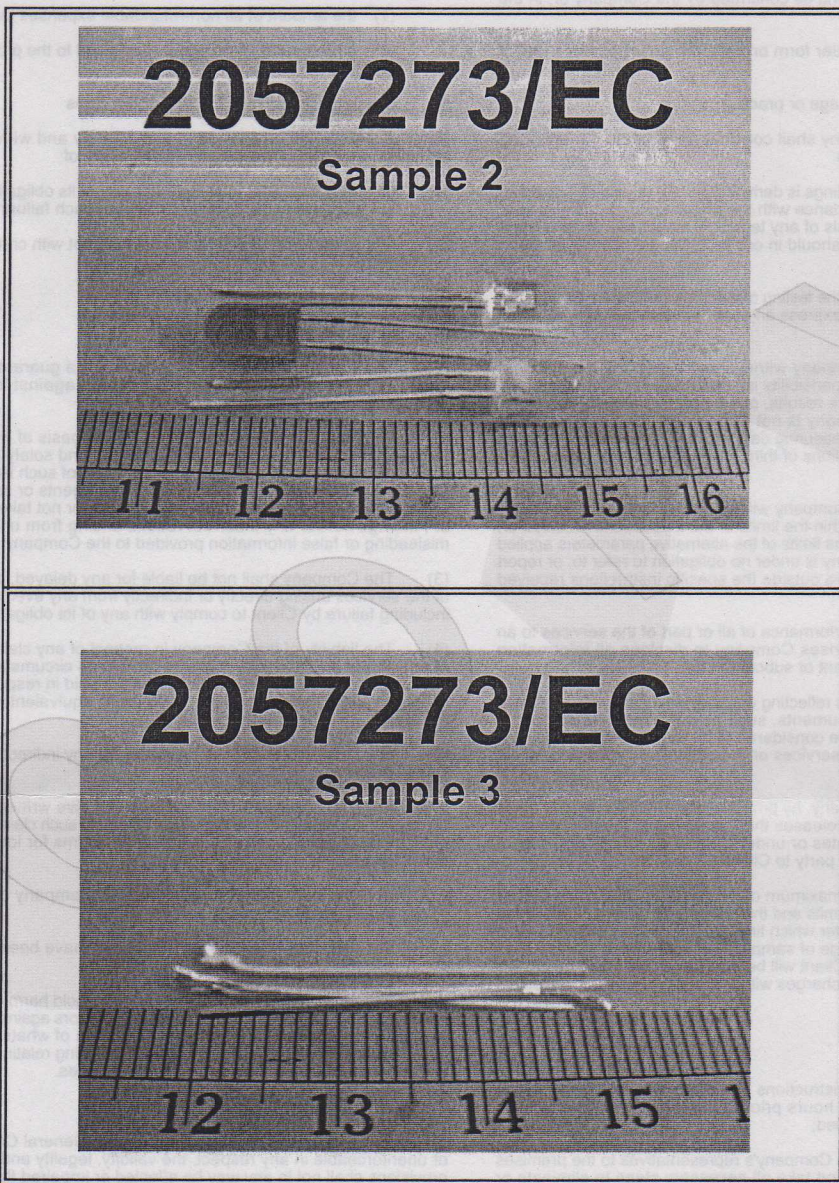


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PHOTO APPENDIX



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*** End of Report ***

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H13312248

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Test Report

No. 2061871/EC

Date : Jun 19 2006

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HONG KONG SEMI-CONDUCTOR LIMITED
UNIT B, 13/F KA NIN WAH COMM. BUILDING, 423-425 HENNESSY ROAD, WANCHAI, HK

Report on the submitted sample said to be LED DISPLAY 發光二極管顯示器.

SGS Job No. : 1017285
Buyer : NIS-NEW
Manufacturer : HONG KONG SEMI-CONDUCTOR LIMITED
Country of Origin : CHINA
Sample Receiving Date : MAY 30 2006
Testing Period : MAY 30 – JUN 16 2006

Test Requested : With reference to RoHS Directive 2002/95/EC
1) To determine the Cadmium Content in the submitted sample.
2) To determine the Lead Content in the submitted sample.
3) To determine the Cadmium, Lead and Mercury Content in the submitted sample.
4) To determine the Hexavalent Chromium Content on the submitted sample.
5) To determine the Cadmium, Lead and Mercury content in the submitted metal sample.
6) To determine PBBs (Polybrominated biphenyls) and PBDEs (Polybrominated diphenylethers) of the submitted sample.

Test Method : 1) With reference to BS EN 1122:2001, Method B, analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
2) With reference to EPA Method 3050B/ 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
3) With reference to EPA Method 3051/ 3052. Analysis was performed by Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
4) With reference to EPA Method 3060A & 7196A. The sample was alkaline digested by using EPA Method 3060A, and then analyzed by using Colorimetric method 7196A (by UV-Vis Spectrophotometer).
5) With reference to SGS in-house method. The sample was digested by acid. Analysis was performed by Atomic Absorption or Inductively Coupled Argon Plasma – Atomic Emission Spectrometry (ICP-AES).
6) With reference to EPA Method 3540C/ 3550C. Analysis was performed by GC/MS or LC/ MS.

Test Results : 1-6) Please refer to next page.

Conclusion : When tested as specified, the submitted sample complies with the requirements of Commission Decision of 18 Aug 2005 amending Directive 2002/95/EC notified under document 2005/618/EC.

Signed for and on behalf of
SGS Hong Kong Ltd

Ho Ka Ting, Family
Laboratory Executive

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Test Report

No. 2061871/EC

Date : Jun 19 2006

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Test Results

1-5)

Test Item	1	2	3	Detection Limit	Limit
Cadmium (Cd)	ND	ND	ND	2 ppm	100 ppm
Lead (Pb)	ND	17 ppm	ND	2 ppm	1000 ppm
Mercury (Hg)	ND	ND	ND	2 ppm	1000 ppm
Hexavalent Chromium (Cr ⁶⁺)	ND	ND	ND	2 ppm	1000 ppm

(Results shown are of the total weight of samples)

Note : ppm = mg/kg

ND = Not Detected

Not detected is reported when the reading is less than detection limit value

6)

Flame Retardants	1	2	3	Detection Limit	Limit
Polybrominated Biphenyls (Mono - Deca)	ND	ND	ND	50 ppm	1000 ppm
Monobromobiphenyl	ND	ND	ND	5 ppm	--
Dibromobiphenyl	ND	ND	ND	5 ppm	--
Tribromobiphenyl	ND	ND	ND	5 ppm	--
Tetrabromobiphenyl	ND	ND	ND	5 ppm	--
Pentabromobiphenyl	ND	ND	ND	5 ppm	--
Hexabromobiphenyl	ND	ND	ND	5 ppm	--
Heptabromobiphenyl	ND	ND	ND	5 ppm	--
Octabromobiphenyl	ND	ND	ND	5 ppm	--
Nonabromobiphenyl	ND	ND	ND	5 ppm	--
Decabromobiphenyl	ND	ND	ND	5 ppm	--
Polybrominated Diphenylethers (Mono - Nona)	< 425 ppm	ND	ND	45 ppm	1000 ppm
Monobromodiphenyl ether	ND	ND	ND	5 ppm	--
Dibromodiphenyl ether	ND	ND	ND	5 ppm	--
Tribromodiphenyl ether	ND	ND	ND	5 ppm	--
Tetrabromodiphenyl ether	ND	ND	ND	5 ppm	--
Pentabromodiphenyl ether	ND	ND	ND	5 ppm	--
Hexabromodiphenyl ether	ND	ND	ND	5 ppm	--
Heptabromodiphenyl ether	ND	ND	ND	5 ppm	--
Octabromodiphenyl ether	ND	ND	ND	5 ppm	--
Nonabromodiphenyl ether	384 ppm	ND	ND	5 ppm	--
Decabromodiphenyl ether*	1383 ppm	ND	ND	5 ppm	See remark

Note : ppm = mg/kg

< = Less than

ND = Not Detected

Not detected is reported when the reading is less than detection limit value.

Remark: * Decabromodiphenyl ether (DecaBDE) in polymeric applications is exempted by Commission Decision of 13 Oct 2005 amending Directive 2002/95/EC notified under document 2005/717/EC.

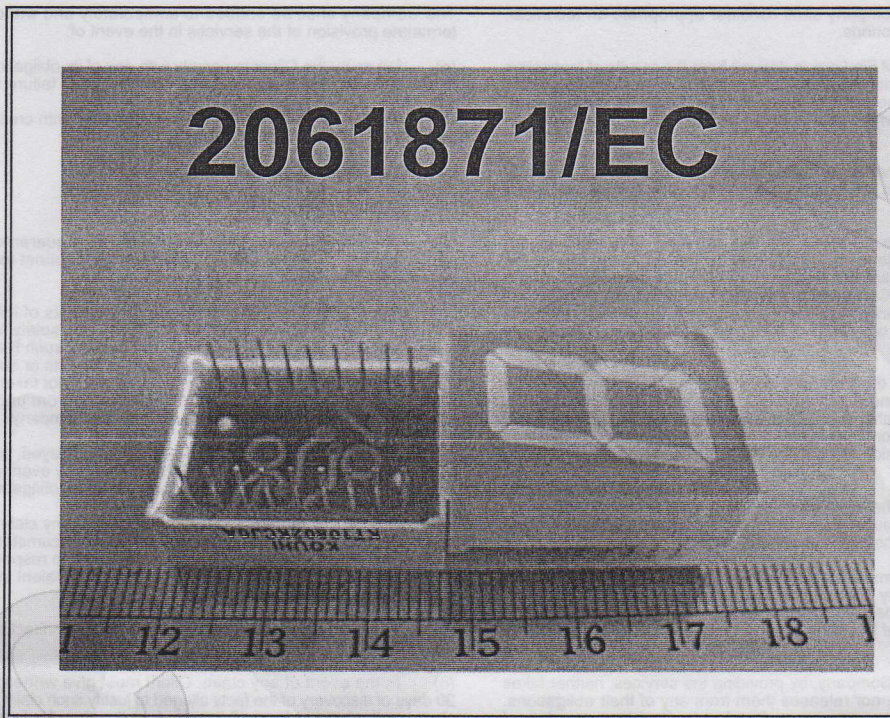
Sample Description :

1. White Plastic w/ Black Printing w/ Grey Coating (LED Display Case)
2. Semi-Transparent Glass Fiber w/ Black Printing w/ Golden, Silvery Metal w/ Semi-Transparent, White Plastic (LED Display PCB)
3. Silvery Metal (LED Display Pin)

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PHOTO APPENDIX



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*** End of Report ***