



卓時檢測
TIMEWAY TESTING LABORATORY



Report No: RoHS1102055

File reference No: 2011-02-25

Applicant:

Product: Multifunctional Flashlight

Model No: LG801

Brand Name:



Test Conclusion:

The RoHS testing has been performed on the submitted samples. And found in compliance with RoHS Directive.(2002/95/EC)

Approved By

White Liu

Manager

Dated: Feb. 25, 2011

**Test Conclusions appearing herein relate only to the sample tested
The technical reports is issued errors and omissions exempt and is subject
to withdrawal at**

TIMEWAY TECHNOLOGY DEVELOPMENT LIMITED (HONG KONG)

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1.0 General Details

1.1 Test Lab Details


Name:
Address:
Tel: (852)2626 1885
Fax: (852)3012 1422
Test location:
Address:

1.2 Applicant Details

Applicant:
Address:
Tel: 0574-63731378
Fax: 0574-63731368

1.3 Description of EUT

Product: Multifunctional Flashlight
Manufacturer:
Address:

Basic Model: LG801
Brand Name: 

Additional Model: LG802

1.4 Submitted Sample

1 Sample

1.5 Test Time

2011-02-21~2011-02-25

1.6 Test Engineer

The sample tested by

Print Name: Jerry Chen

1.7 Verify Engineer

The report verified by

Print Name: Eric Lin

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- 1.8 Possible test case verdicts:
 - N.D.= NOT DETECTED (<2ppm)
 - ppm =PART PER MILLION
 - MDL=Method Detection Limit
 - XRF= X-ray fluorescence spectrometry

1.9 General remark:
 The test conclusions presented in this report relate only to the object tested.
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 The Difference between models: They have the same materials but different shapes.

CIXI LEIGE AUTOMOBILE SUPPLIES FACTORY

Date: 2011.2.23

Subject: Authorization for adding family models

To whom it may concern,

Statement

The shape of **Multifunctional flashlight** is different between them
 We need adding model for ROHS approval LG802
 Brand name is LEIGE
 The original Model No. **LG801**
 original brade name is

Original report No. is _____ (if applicable)

Yours sincerely,

Signature:



CIXI LEIGE AUTOMOBILE SUPPLIES FACTORY

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2.0 Test Requested and Methods

2.1 Test requested:

- 1) Determination of lead content in the submitted samples
- 2) Determination of cadmium content in the submitted samples
- 3) Determination of mercury content in the submitted samples
- 4) Determination of chromium(VI) content in the submitted samples
- 5) Determination of polybrominated biphenyls (PBB)& polybrominated diphenyl ethers (PBDE) content in the submitted samples

2.2 Test method:

- 1) All elements reference to IEC 62321. Analyses were performed by XRF first.
- 2) Cd-with reference to BS EN1122/ US EPA3050B/ US EPA3052. Analysis was performed by acid digestion.
- 3) Pb-with reference to US EPA3050B/ US EPA3052. Analysis was performed by acid digestion.
- 4) Hg-with reference to US EPA3052. Analysis was performed by acid digestion.
- 5) Cr⁶⁺ - with reference to US EPA3060A&7196A. Analysis was performed by alkaline digestion.
- 6) PBB&PBDE-with reference to US EPA3540C. Analysis was performed by solvent extraction.

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3.0 Data Resource

Item	Parts Name	Organization	Issued Date	Report No.
4.1	Yellow Plastic	TIMEWAY	--	--
4.2	Black Rubber Button	TIMEWAY	--	--
4.3	Transparent Plastic I	TIMEWAY	--	--
4.4	Transparent Plastic II	TIMEWAY	--	--
4.5	Red Rubber	TIMEWAY	--	--
4.6	Green Plastic	TIMEWAY	--	--
4.7	Black Rubber	TIMEWAY	--	--
4.8	LED	TIMEWAY	--	--
4.9	Refractor	TIMEWAY	--	--
4.10	Magnet	TIMEWAY	--	--
4.11	Spring	TIMEWAY	--	--
4.12	Silvery Metal	TIMEWAY	--	--
4.13	Screw	TIMEWAY	--	--
4.14	Black Metal	TIMEWAY	--	--
4.15	Solder	TIMEWAY	--	--
4.16	Resistor I	TIMEWAY	--	--
4.17	Resistor II	TIMEWAY	--	--
4.18	Triode	TIMEWAY	--	--
4.19	Glass Diode	TIMEWAY	--	--
4.20	PCB	TIMEWAY	--	--
4.21	Switch	--	--	--
4.21.1	Blue Plastic	TIMEWAY	--	--
4.21.2	White Plastic	TIMEWAY	--	--
4.21.3	Black Plastic	TIMEWAY	--	--
4.21.4	Wafer	TIMEWAY	--	--
4.21.5	Conductor	TIMEWAY	--	--

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4.0 Test Conclusions

4.1 Yellow Plastic			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.2 Black Rubber Button			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.3 Transparent Plastic I			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.4 Transparent Plastic II			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.5 Red Rubber			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.6 Green Plastic			
Testing item	Test Results	Limit	Photo
Pb	20	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.7 Black Rubber			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.8 LED			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.9 Refractor			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.10 Magnet			
Testing item	Test Results	Limit	Photo
Pb	N.D.	3500ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	

4.11 Spring			
Testing item	Test Results	Limit	Photo
Pb	N.D.	3500ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	

4.12 Silvery Metal			
Testing item	Test Results	Limit	Photo
Pb	N.D.	3500ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	

4.13 Screw			
Testing item	Test Results	Limit	Photo
Pb	N.D.	3500ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	


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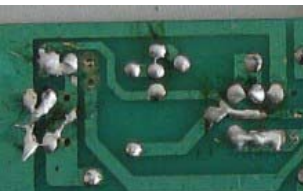
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4.14 Black Metal			
Testing item	Test Results	Limit	Photo
Pb	N.D.	3500ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	

4.15 Solder			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	


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4.16 Resistor I			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.17 Resistor II			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	

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4.18 Triode			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.19 Glass Diode			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	

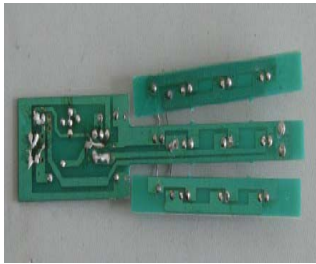
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4.20 PCB			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	

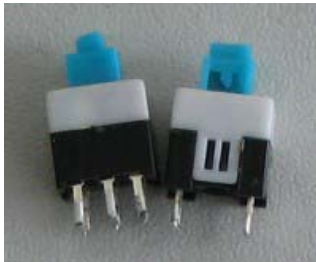
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4.21 Switch			
4.21.1 Blue Plastic			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	


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4.21.2 White Plastic			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
Octabromodiphenyl ether	N.D.	--	
Nonabromodiphenyl ether	N.D.	--	
Decabromodiphenyl ether	N.D.	--	

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4.21.3 Black Plastic			
Testing item	Test Results	Limit	Photo
Pb	N.D.	1000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	
PBBs	--	1000ppm	
Bromobiphenyl	N.D.	--	
Dibromobiphenyl	N.D.	--	
Tribromobiphenyl	N.D.	--	
Tetrabromobiphenyl	N.D.	--	
Pentabromobiphenyl	N.D.	--	
Hexabromobiphenyl	N.D.	--	
Heptabromobiphenyl	N.D.	--	
Octabromobiphenyl	N.D.	--	
Nonabromobiphenyl	N.D.	--	
Decabromobiphenyl	N.D.	--	
PBDEs	--	1000ppm	
Bromodiphenyl ether	N.D.	--	
Dibromodiphenyl ether	N.D.	--	
Tribromodiphenyl ether	N.D.	--	
Tetrabromodiphenyl ether	N.D.	--	
Pentabromodiphenyl ether	N.D.	--	
Hexabromodiphenyl ether	N.D.	--	
Heptabromodiphenyl ether	N.D.	--	
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Nonabromodiphenyl ether	N.D.	--	
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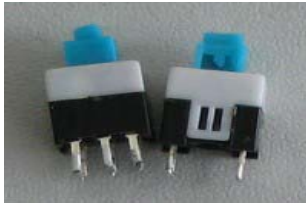
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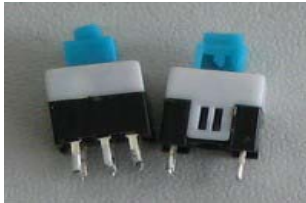
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4.21.4 Wafer			
Testing item	Test Results	Limit	Photo
Pb	N.D.	40000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	

4.21.5 Conductor			
Testing item	Test Results	Limit	Photo
Pb	N.D.	40000ppm	
Cd	N.D.	100ppm	
Hg	N.D.	1000ppm	
Cr ⁶⁺	N.D.	1000ppm	

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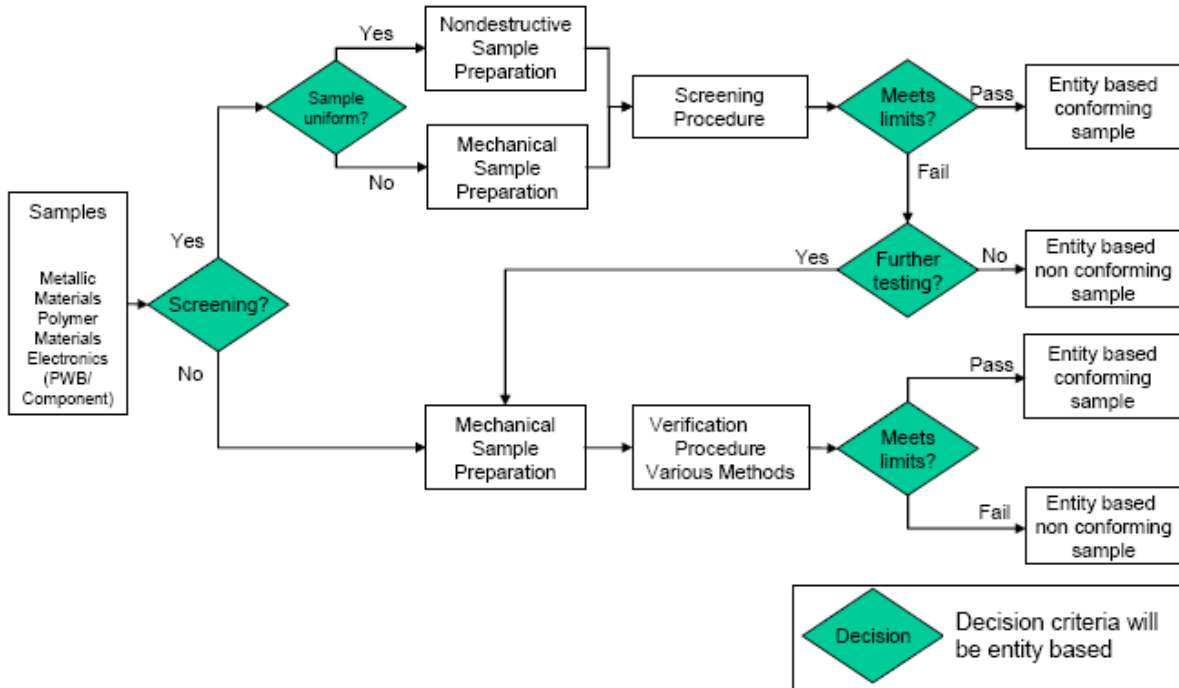
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5.0 Appended Figure and Table

Flowchart of the test methods:



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Table 1. Screening limits in mg/kg (ppm) for regulated elements in various matrices:

Element	Polymers	Metals	Composite Material
Cd	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$BL \leq (70-3\sigma) < X < (130+3\sigma) \leq OL$	$LOD < X < (150+3\sigma) \leq OL$
Pb	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1\ 500+3\sigma) \leq OL$
Hg	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (700-3\sigma) < X < (1\ 300+3\sigma) \leq OL$	$BL \leq (500-3\sigma) < X < (1\ 500+3\sigma) \leq OL$
Br	$BL \leq (300-3\sigma) < X$		$BL \leq (250-3\sigma) < X$
Cr	$BL \leq (700-3\sigma) < X$	$BL \leq (700-3\sigma) < X$	$BL \leq (500-3\sigma) < X$

- A common set of limits for the substances of interest have been assumed for the purposes of this example. The limits are 100 mg/kg for Cd and 1 000 mg/kg for Pb, Hg and Cr. The limit for Br is calculated based on the stoichiometry of Br in the most common congeners of PBB/PBDE and their limit of 1 000 mg/kg. The “action levels” for this method have been set for the purpose of this screening procedure with a 30 % margin of safety (50 % for composite materials).
- A “BELOW LIMIT” (BL) or “OVER LIMIT” (OL) determination will be set at 30 % (50 % for composite materials) less than or greater than the limit, respectively. The margins of safety have been agreed upon based on the experience of many experts and practitioners in the industry. Further explanation of this approach to estimating uncertainty (translated here as “margin of safety”) can be found in 6.6 c).
- The symbol “X” marks the region where further investigation is necessary.
- The term “3σ” expresses the repeatability of the analyser at the action level, where σ is determined as the standard deviation of a typical sample with the content of the regulated substances near the limits of interest (see spectrometer performance verification test 6.8.4.6). The repeatability is expressed in terms of “3σ” 99,7 % confidence level rather than the more common “2σ” 95 % confidence level. The 99,7 % confidence level will allow the method to produce fewer “false negative errors”.

Table 2. the values of “σ” for each elements:

Element	the values of “σ” (ppm)
Cd	10
Pb	10
Hg	15
Cr	15
Br	20

The report refers only to the sample tested and does not apply to the bulk.

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Appendix



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Photo of the product



End of the report

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