Test Report

Report No.: CX/2011/90222 Date: 2011/10/25

KAILEAD INTERNATIONAL CORP.
4F, NO. 20, LANE 478, RUEIGUANG ROAD, NEIHU TECHNOLOGY
PARK, TAIPEI 114, TAIWAN

The following sample(s) was/were submitted and identified by/on behalf of the client as :

Sample Description	:	LED MIRROR LIGHT
Style/Item No.	:	KLT0001 / KLT0002 / KLT0003 / KLT0005 / KLT0006
Sample Receiving Date	:	2011/09/22
Testing Period	:	2011/09/22 TO 2011/10/06

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

Conclusion : Based upon the performed tests by submitted samples, the test results comply with the limits of RoHS Directive 2011/65/EU with the exempted materials below according to the declaration from applicant (Directive 2002/95/EC being recast by Directive 2011/65/EU):

1. GLASS (No.1.2) in Table 1: Lead (Pb) & Cadmium (Cd)
   ("13(b), Cadmium and lead in filter glasses and glasses used for reflectance standards" in Directive 2011/65/EU)

Ellis Wei, Ph.D. / Supervisor
Signed for and on behalf of
SGS TAIWAN LTD.
Chemical Laboratory - Taipei

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1. Material Fraction Composition

Table 1 The results of XRF screening and chemical test (Unit: mg/kg)






No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE  	1.1	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	177000				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		1.2	GLASS		Composite Material	Pb	49000		2190		*2
						Cd	663		246		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.3	WHITE TAPE		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	

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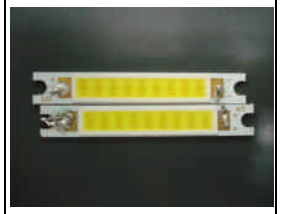
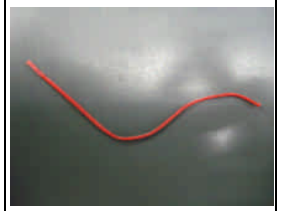
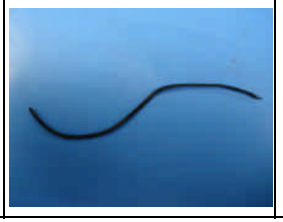
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.4	PCB		Composite Material	Pb	---		17		
						Cd	---		n.d.		
						Hg	---		n.d.		
						Cr	---				
						Br	---				
						Cr(VI)		n.d.			
						PBB				n.d.	
						PBDE				n.d.	
		1.5	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.6	RED PLASTIC JACKET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.7	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	

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						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
1	CASE	1.8	RED PLASTIC JACKET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.9	BLACK PLASTIC JACKET		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.10	SILVER COLORED METALLIC WIRE		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		1.11	SILVER COLORED METALLIC FRAME		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	4080				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	

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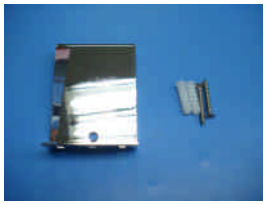
No.	Type of Components	Description		Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
						Element	Data	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	
2	ASSEMBLY	2.1	WHITE PLASTIC SCREW		Polymers	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	n.d.				
						Br	n.d.				
						Cr(VI)		---			
						PBB				---	
						PBDE				---	
		2.2	SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	178000				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	
		2.3	SILVER COLORED METALLIC FRAME		Metals	Pb	n.d.		---		
						Cd	n.d.		---		
						Hg	n.d.		---		
						Cr	16300				
						Br	n.d.				
						Cr(VI)		Negative			
						PBB				---	
						PBDE				---	

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Test Item :	MDL (mg/kg)				XRF screening threshold (mg/kg)	Test method
	Category / Element	Polymers	Composite Material	Metals		
XRF (X-ray fluorescence)	Pb	50	100	100	500	With reference to IEC 62321: 2008
	Cd	50	50	50	50	
	Hg	50	100	100	500	
	Cr	50	100	100	500	
	Br	50	100	n.a.	250	

Test Item (s):	Test method	MDL (mg/kg)	Facilities
Cr(VI)	With reference to IEC 62321: 2008 (For Polymers and Electronics)	2	UV
	With reference to IEC 62321: 2008 (For Coatings on Metals)	–*	-
Pb/Cd/Hg	With reference to IEC 62321: 2008	2	ICP-AES

Test Item (s):	Unit	Method	MDL
PBBs		With reference to IEC 62321: 2008. Determination of PBB and PBDE by GC/MS.	
Monobromobiphenyl	mg/kg		5
Dibromobiphenyl	mg/kg		5
Tribromobiphenyl	mg/kg		5
Tetrabromobiphenyl	mg/kg		5
Pentabromobiphenyl	mg/kg		5
Hexabromobiphenyl	mg/kg		5
Heptabromobiphenyl	mg/kg		5
Octabromobiphenyl	mg/kg		5
Nonabromobiphenyl	mg/kg		5
Decabromobiphenyl	mg/kg		5
PBDEs			
Monobromodiphenyl ether	mg/kg		5
Dibromodiphenyl ether	mg/kg		5
Tribromodiphenyl ether	mg/kg		5
Tetrabromodiphenyl ether	mg/kg		5
Pentabromodiphenyl ether	mg/kg		5
Hexabromodiphenyl ether	mg/kg		5
Heptabromodiphenyl ether	mg/kg		5
Octabromodiphenyl ether	mg/kg		5
Nonabromodiphenyl ether	mg/kg		5
Decabromodiphenyl ether	mg/kg		5

1. mg/kg = ppm
2. n.d. = not detected or lower than MDL
3. MDL = Method detection limit
4. "---" = not conducted
5. n.a. = not applicable
6. _*:
   Spot-test:
   Negative = Absence of Cr(VI) coating,
   Positive = Presence of Cr(VI) coating;
   (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
   Positive = Presence of Cr(VI) coating; the detected concentration in boiling-water-extraction solution is equal or greater than 0.02 mg/kg with 50 cm^2 sample surface area.
7. The XRF result of Br for metal sample is conducted from semi-quantitative method of polymer.
8. Magnetic samples can not be located on test position and there are breakdown risks on XRF equipment. Therefore, this kind of sample will be conducted chemical test directly.
9. If the test result by EDXRF analysis is greater than XRF screening threshold, the test sample should be further conducted by chemical test.
10. PCBA, FPC and battery are conducted by chemical test directly.

Mark	Description of Mark
*1	The sample weight is not enough to conduct chemical tests.
*2	The item is exempted from RoHS directive.
--*2	The item might be exempted from RoHS directive.
*3	The result was retested after re-getting the same sample from client.