



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

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)



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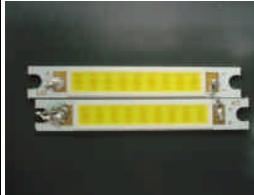
1. Material Fraction Composition

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						
1	CASE	1.1 SILVER COLORED METALLIC SCREW		Metals	Pb	n.d.	Cr (VI)	Pb/Cd/Hg	PBB/PBDE	*2		
					Cd	n.d.						
					Hg	n.d.						
					Cr	177000						
					Br	n.d.						
					Cr(VI)			Negative				
					PBB							
					PBDE							
				Composite Material	Pb	49000	Cr (VI)	2190	PBB/PBDE			
	1.2 GLASS				Cd	663		246				
					Hg	n.d.		---				
					Cr	n.d.		---				
					Br	n.d.		---				
	1.3 WHITE TAPE			Polymers	Cr(VI)			---				
					PBB			---				
					PBDE			---				
					Pb	n.d.	Cr (VI)	---	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				
1	CASE	1.4 PCB		Composite Material	Pb	---		17		
					Cd	---		n.d.		
					Hg	---		n.d.		
					Cr	---				
					Br	---				
					Cr(VI)			n.d.		
					PBB				n.d.	
	BLACK PLASTIC JACKET	1.5		Polymers	PBDE				n.d.	
					Pb	n.d.		---		
					Cd	n.d.		---		
					Hg	n.d.		---		
					Cr	n.d.				
					Br	n.d.				
					Cr(VI)			---		
	RED PLASTIC JACKET	1.6		Polymers	PBB			---		
					PBDE			---		
					Pb	n.d.		---		
					Cd	n.d.		---		
					Hg	n.d.		---		
					Cr	n.d.				
					Br	n.d.				
	BLACK PLASTIC JACKET	1.7		Polymers	Cr(VI)			---		
					PBB			---		
					PBDE			---		

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note	
					Element	Data					
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						
	1.9 BLACK PLASTIC JACKET			Polymers	PBDE						
					Pb	n.d.		---			
					Cd	n.d.					
					Hg	n.d.					
					Cr	n.d.					
					Br	n.d.					
					Cr(VI)						
	1.10 SILVER COLORED METALLIC WIRE			Metals	PBB			---			
					PBDE						
					Pb	n.d.					
					Cd	n.d.					
					Hg	n.d.					
					Cr	n.d.					
					Br	n.d.					
	1.11 SILVER COLORED METALLIC FRAME			Metals	Cr(VI)			---			
					PBB						
					PBDE						
					Pb	n.d.					
					Cd	n.d.					
					Hg	n.d.					
					Cr	4080					

No.	Type of Components	Description	Figure	MDL Category	X-ray Screening		UV	ICP-AES	GC-MS	Note
					Element	Data				
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)					
					PBB					
		2.3 SILVER COLORED METALLIC FRAME		Metals	PBDE					
					Pb	n.d.		---		
					Cd	n.d.				
					Hg	n.d.				
					Cr	16300				
					Br	n.d.				
					Cr(VI)					
					PBB					
					PBDE					

Test Item :	MDL (mg/kg)				XRF screening threshold (mg/kg)	Test method With reference to IEC 62321: 2008	Test Item (s):	Unit	Method	MDL
XRF (X-ray fluorescence)	Category	Polymers	Composite Material	Metals			PBBs			
	Element						Monobromobiphenyl	mg/kg		5
	Pb	50	100	100	500		Dibromobiphenyl	mg/kg		5
	Cd	50	50	50	50		Tribromobiphenyl	mg/kg		5
	Hg	50	100	100	500		Tetrabromobiphenyl	mg/kg		5
	Cr	50	100	100	500		Pentabromobiphenyl	mg/kg		5
Cr(VI)	Br	50	100	n.a.	250		Hexabromobiphenyl	mg/kg		5
	Test method			MDL (mg/kg)	Facilities		Heptabromobiphenyl	mg/kg		5
	With reference to IEC 62321: 2008 (For Polymers and Electronics)			2	UV		Octabromobiphenyl	mg/kg		5
	With reference to IEC 62321: 2008 (For Coatings on Metals)			-	-		Nonabromobiphenyl	mg/kg	With reference to IEC 62321: 2008. Determination of PBB and PBDE by GC/MS.	5
Pb/Cd/Hg	With reference to IEC 62321: 2008			2	ICP-AES		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 cm² 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.

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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.